

"Education through self help is our motto" - Karmaveer



Rayat Shikshan Sanstha's

S. S. G. M. Science, Gautam Arts & Sanjivani  
Commerce College, Kopargaon. Dist. - Ahmednagar

**TEACHER'S DIARY**

( YEAR : 20<sup>17</sup> - 20<sup>18</sup> )

Name of the Lecturer Dr. Randhavane P.V.

Subject Organic Chemistry

S. G. M. Science, Gautam Arts & Sanjivani Commerce College,  
Kopargeon. Dist.- Ahmednagar

**PERSONAL RECORD**

Name in full : Dr. Mrs. Pratibha Vitthal Randhavane

Qualification : M. Sc. Ph. D.

Department : Chemistry Designation : Assistant Professor

Date of appointment : 1/2/2013 Present grade : \_\_\_\_\_

Residential address : 12, Anubandh, Riddli-Siddli Nagar

Phone number : 

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Blood group : 

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Chairman / Member of committees of the college / University

Sr. No.	Name of the Committee	Chairman / Member
1.		
2.		
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### Allotment of Work ( I - Term)

Sr. No.	Class	Theory / Practical Paper No.	Title	Work load / weeks
1	S.Y.B.Sc.	Theory - Paper II	organic chem.	02
2	M.Sc. II	Theory - CHO 351	Spectroscopy	04
3	F.Y.B.Sc.	Theory - Paper II	org. & Ino. chem	03
4	M.Sc. II	Practical: CHO 347	single stage	06
5	M.Sc. II	Project: 44B	projects	09
6	S.Y.B.Sc.	Practical	practical	04
7	T.Y.B.Sc.	Practical	u	04

### Allotment of Work ( II - Term)

Sr. No.	Class	Theory / Practical Paper No.	Title	Work load
1	F.Y.B.Sc.	Theory Paper II	Org & Ino Chem	03
2	S.Y.B.Sc.	Theory - chem II	organic chem	02
3	M.Sc. Ist	CHO - 250	org. chemistry	02
4	M.Sc. II	CHO - 448	project	09
5	S.Y.B.Sc.	practical	practical	04
6	T.Y.B.Sc.	u	u	04

### Monthly Report

Sr. No.	Month	Teachers Signature	Remark	Sign. of Head of the department
1	July	PP u	work completed as per distribution	
2	Aug.	PP u		
3	sep.	PP u		
4	NOV	PP u		
5	Dec	PP u		
6	JAN	PP u		
7	Feb	PP u		
8	Month	PP u		
9	APR	PP u		

Signature  
of the faculty incharge

Head  
Department of Chemistry

Principal

## Teaching Plan (I/II - Term)

Class S.Y.B.Sc. Subject org. chemistry Paper II Year 2017-18  
 Name of the teacher Dr. Randhavan P.V.  
 No. of working days available 86 No. of periods available 35

		Topics according to University Syllabus
Month	June	Organic Reaction Mechanism (12)
Working days	13	
Periods available	03	
Periods required	12	
Month	July	(1) Organic Reaction Mechanism (11) stereoisomerism (12)
Working days	26	
Periods available	10	
Periods required	12	
Month	Aug	(1) stereoisomerism (12)
Working days	25	
Periods available	12	
Periods required	14	
Month	Sept	(1) stereoisomerism (12) (1) Revision
Working days	23	
Periods available	08	
Periods required	10	

Dr. Randhavan P.V.  
 Teachers Signature

Date: 01/07/2017

Dr. Randhavan P.V.  
 Head,  
 Department of Chemistry

## Teaching Plan (I/II - Term)

Class F.Y.B.Sc. Subject Chemistry Paper II Year 2017-18  
 Name of the teacher Randhavan P.V.  
 No. of working days available 102 No. of periods available 46

		Topics according to University Syllabus
Month	July	(1) Chemical bonding, structure and reactivity of organic molecules (14 Lect)
Working days	26	
Periods available	07	
Periods required	14	
Month	Aug	(1) Chemical bonding, structure & reactivity of organic molecules (2) Chemistry of hydrocarbons (10 Lect)
Working days	26	
Periods available	14	
Periods required	14	
Month	Sept	(3) Chemistry of s-block elements (12 Lect) (2) Chemistry of hydrocarbons
Working days	23	
Periods available	12	
Periods required	16	
Month	Oct	Chemistry of s-block elements
Working days	25	
Periods available	15	
Periods required	18	

Dr. Randhavan P.V.  
 Teachers Signature

Date: 17/07/2017

Dr. Randhavan P.V.  
 Head,  
 Department of Chemistry

Time Table (I-Term)

Sr. No.	Time	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							

Time Table (II-Term)

Sr. No.	Time	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							

Teaching Plan (I+II-Term)

CHO: 351

Class M.Sc. II Subject Spectroscopy Paper CH351 Year 2017-18Name of the teacher Dr. Randhavane P.V.No. of working days available 87 No. of periods available 57

		Topics according to University Syllabus
Month	June	PMR spectroscopy
Working days	13	
Periods available	13	
Periods required	13	
Month	July	PMR spectroscopy
Working days	26	
Periods available	16	
Periods required	20	
Month	Aug	CMR spectroscopy Mass spectroscopy
Working days	25	
Periods available	16	
Periods required	22	
Month	Sept	2D NMR spectroscopy
Working days	23	
Periods available	12	
Periods required	12	

Teachers Signature

Date 20/06/2017Head,  
Department ofChemistry

## Teaching Plan ( I / II - Term)

Class \_\_\_\_\_ Subject \_\_\_\_\_ Paper \_\_\_\_\_ Year \_\_\_\_\_

Name of the teacher \_\_\_\_\_

No. of working days available \_\_\_\_\_ No. of periods available \_\_\_\_\_

		Topics according to University Syllabus
Month	Oct	2D NMR Spectroscopy
Working days	25	Combined problems based on all spectroscopic techniques
Periods available	16	
Periods required	16	
Month		
Working days		
Periods available		
Periods required		
Month		
Working days		
Periods available		
Periods required		
Month		
Working days		
Periods available		
Periods required		

## Teaching Plan ( I / II - Term)

Class F.Y. B.Sc. Subject org. chem Paper II Year 2017-18Name of the teacher Randhava P.V.

No. of working days available \_\_\_\_\_ No. of periods available \_\_\_\_\_

		Topics according to University Syllabus
Month	Nov	Alkanes, Alkenes & Alynes
Working days	15	
Periods available	01	
Periods required	10	
Month	Dec	
Working days	25	→ Stereochemistry
Periods available	11	
Periods required	10	
Month	Jan	Alkyl halides
Working days	26	Alcohols & ethers
Periods available	15	Phenols
Periods required	15	p-block elements
Month	Feb	Carboxylic acids
Working days	22	Amides
Periods available	10	Aldehydes & Ketones
Periods required	15	* syllabus completed by extra lectures on Sunday

Teacher's Signature \_\_\_\_\_

Date: / / 201

Head,  
Department of \_\_\_\_\_

Teacher's Signature \_\_\_\_\_

Date: / / 201

Head,  
Department of Chemistry

## Teaching Plan (I/II - Term)

Class S.Y. B.Sc. Subject organic chem Paper II Year 2017-18Name of the teacher Dr. Randhavana P.V.

No. of working days available \_\_\_\_\_ No. of periods available \_\_\_\_\_

		Topics according to University Syllabus
Month	<del>Nov</del>	Heterocyclic chemistry
Working days	15	
Periods available	01	
Periods required	06	
Month	<del>Dec</del>	Heterocyclic chemistry
Working days	25	Reagents in org. chemistry
Periods available	08	
Periods required	10	
Month	Jan	Reagents in org chemistry
Working days	26	
Periods available	10	
Periods required	12	
Month	Feb	Chemistry of biomolecules.
Working days	22	
Periods available	10	
Periods required	15	* Extracurricular on Sunday

Teachers' Signature

Date: / / 201

Head

Department of \_\_\_\_\_

## Teaching Plan (I/II - Term)

Class M.Sc. I Subject CHO: 250 Paper Org. Year 2017-18Name of the teacher Dr. Randhavana P.V.

No. of working days available \_\_\_\_\_ No. of periods available \_\_\_\_\_

		Topics according to University Syllabus
Month	Dec	- U.V. spectroscopy
Working days	25	- IR spectroscopy
Periods available	08	
Periods required	08	
Month	Jan	- PMR spectroscopy
Working days	26	
Periods available	08	
Periods required	08	
Month	Feb	- PMR spectroscopy
Working days	22	- Mass spectroscopy
Periods available	08	- CMR spectroscopy
Periods required	08	
Month	Mar	- Problems based on combined applications of PMR, IR & UV spectroscopy
Working days	26	
Periods available	08	
Periods required	08	

Teachers' Signature

Date: / / 201

Head

Department of Chemistry

## DAILY RECORD

Date: 28/06/2017

 DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
2:05 to 2:50 pm	S.Y. B.Sc.	Revision Lecture	(i) Discussion of examination pattern of S.Y. B.Sc. chem. (ii) Revision of carbon & its properties (iii) $sp^3$ hybridisation.	

 Book referred Organic Chemistry: Morrison & Boyd

Other activities

[Signature]  
Signature of the Lecturer

## DAILY RECORD

Date: 29/06/2017

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
2:50 to 3:35	S.Y. B.Sc.	Revision Lecture	(i) $sp^2$ & $sp$ hybridisations (ii) $\pi$ & $\sigma$ bonds (iii) Bond breaking in organic reactions (iv) Homolysis (v) Heterolysis	

 Book referred organic chemistry: Morrison & Boyd

Other activities

[Signature]  
Signature of the Lecturer



## DAILY RECORD

Date: 30/06/2017

 DAY: Friday

Time	Class	Topic	Points covered	Remarks
2:50 to 3:35	S.Y. B.Sc.	Org. Rea <sup>n</sup> Mech.	Reaction Intermediates (1) carbocation:- - Def <sup>n</sup> - structure - stability - Hybrid <sup>n</sup> & geometry (2) Carbanion:- - Def <sup>n</sup> - structure - stability - Hyb <sup>n</sup> & geometry	

 Book referred Organic Chemistry: Morrison & Boyd

Other activities

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Signature of the Lecturer

## DAILY RECORD

Date: 01/07/2017

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
2:05 to 2:50	S.Y. B.Sc.	org rea <sup>n</sup> mech.	Examples of carbocation (iii) carbon free radicals (iv) carbenes * Types of reagents Electrophiles	
11:00 to 12:00	M.Sc. I Ind	spectro	* Introduction to examination pattern * syllabus * Advantages of spectro. scopic technique.	

Book referred

Other activities

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Signature of the Lecturer

## DAILY RECORD

Date: 03/07/2017

DAY: Monday

Time	Class	Topic	Points covered	Remarks
1:00 to 2:00	M.Sc. II	spectro.	<ul style="list-style-type: none"> <li>- UV spectroscopy</li> <li>- principle</li> <li>- electronic excitations</li> <li>- Types of electronic excitation</li> <li>- Effect of conjugation</li> <li>- Uses of UV spectro.</li> </ul>	
3:35 to 4:20	S.Y. B.Sc.	Org. Reac <sup>n</sup> Mech.	<ul style="list-style-type: none"> <li>* Nucleophiles</li> <li>- Def<sup>n</sup>, examples &amp; other information</li> <li>* Free radicals</li> <li>- Def<sup>n</sup>, generation example</li> </ul> $\text{CH}_2\text{Cl}_2 \xrightarrow{\text{UV}} \text{CH}_3\text{Cl} + \text{HCl}$	

 Book referred: (1) Org. chemistry: Morrison & Boyd  
 (2) Spectroscopy: Pavia

Other activities

            
Signature of the Lecturer

## DAILY RECORD

Date: 05/07/2017

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
1:00 to 2:00	M.Sc. II	IR spectro	<ul style="list-style-type: none"> <li>IR spectroscopy</li> <li>- Principle</li> <li>- Modes of vibrations</li> <li>- Examples</li> <li>- Imp. functional groups &amp; their vibrational (stretching) frequencies</li> </ul>	
2:50 to 3:35	S.Y. B.Sc.	org. Reac <sup>n</sup> Mech.	<ul style="list-style-type: none"> <li>* Mechanism of free radical reaction</li> <li>* Types of org. reaction</li> <li>- Substitution reaction</li> <li>- S<sub>N</sub>2</li> </ul>	

 Book referred: (1) Org. Chemistry: Morrison & Boyd  
 (2) Spectroscopy: Pavia

Other activities: Power point presentation (M.Sc. II)

            
Signature of the Lecturer

## DAILY RECORD

Date: 06/07/2017

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
11:00 to 12:00pm	M.Sc II <sup>nd</sup>	NMR	NMR Spectroscopy - Magnetic & non-magnetic nuclei - Nuclear spin - Role of H <sub>0</sub> - Resonance	
01:00 to 02:00pm	S.Y. B.Sc.	Org. Reactions Mech.	- S <sub>N</sub> 2 reaction mechanism & stereochemistry - S <sub>N</sub> 1 reaction mechanism & stereochemistry - Differentiate both S <sub>N</sub> 1 & S <sub>N</sub> 2 reaction	

 Book referred: ① Organic Chemistry: Morrison & Boyd  
 ② Spectroscopy: Pavia

 Other activities: Power Point Presentation (M.Sc. II<sup>nd</sup>)

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Signature of the Lecturer

## DAILY RECORD

Date: 07/07/2017

 DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25	S.Y. B.Sc.	Organic Reaction Mechanism	Addition Reactions Definition - Electrophilic addition - Markovnikoff's addition - Reaction - Examples - Anti Markovnikoff's addition Reaction (peroxide effect) - HBr in presence of H <sub>2</sub> O <sub>2</sub>	
2:50 to 3:35				

Book referred: ① Organic chemistry: Morrison &amp; Boyd

Other activities

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Signature of the Lecturer

## DAILY RECORD

Date: 06/07/2017

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
1:00 to 2:00 PM	M.Sc. IInd	NMR Spectro	- Phenomenon of resonance - Chemical Shift - TMS as an internal Standard - $\delta$ scale	

Book referred Spectroscopy: Pavia

Other activities

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10/7/17

Signature of the Lecturer

## DAILY RECORD

Date: 10/07/2017

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
11:00 to 12:00 PM	M.Sc. IInd	NMR Spectro	Factors affecting chemical shift values ① Effect of electronegativity ② Effect of hybridisation ③ Anisotropic effect	
3:45 to 4:30	Sy. B.Sc.	org. reaction mech.	Elimination Reaction - Definition - Example - Saytzeff's rule	

 Book referred ① organic chemistry: Morrison & Boyd  
 ② Spectroscopy: Pavia

Other activities Power point presentation (M.Sc. IInd)

Signature of the Lecturer

## DAILY RECORD

Date: 11/07/2017

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
2:15 TO 3:00 PM	S.Y. B.Sc.	Org. rean mech	Hoffmann elimination - Factors deciding Saytzeff & Hoffmann elimination - Effect of size of leaving group - Effect of size of base	

 Book referred Organic Chemistry: Morrison & Boyd

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 12/07/2017

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
2:15 TO 3:00 PM	S.Y. B.Sc.	Org. Res <sup>n</sup> Mech.	<u>Revision</u> * Add <sup>n</sup> - Markovnikoff add <sup>n</sup> - Anti markovnikoff add <sup>n</sup> * Elimination Saytzeff & Hoffmann * Substitution SN1 & SN2	

 Book referred Organic Chemistry: Morrison & Boyd

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 13/07/2017

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
12:00 to 2:00 pm	M.Sc. II	NMR spectro	- Anisotropic effect in - aldehyde - acetylene - aromatics * Effect of temperature * Effect of H-bonding * Effect of restricted rotations * Effect of solvent	

Book referred

- (i) Spectroscopy: Pavia
- (ii) Spectroscopy: Kalsi

Other activities

Power Point presentation

  
 Signature of the Lecturer

## DAILY RECORD

Date: 14/07/2017

 DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25pm	Sy. BSc.	Organic Reaction Mechanism	Rearrangement Reactions (i) Definition (ii) Pinacol-pinacolone rearrangement (iii) Hoffmann rearrangement	

Book referred

Organic Chemistry: Sy-B Morrison &amp; Boyd

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

 Date: 15/07/2017

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
12:00 to 01:00 PM	M.Sc. I <sup>st</sup> Yr	NMR Spectro.	Types of couplings - vicinal coupling - geminal coupling - Long range coupling * Allylic, benzylic, w couplings - chemical equivalence & non-equivalence	
2:15 to 3:15 PM	S.Y. B.Sc.	Org. Reacn Mechan.	Examples of Hoffmann rearrangement * Beckmann rearrangement - statement - General reaction - mechanism - Examples.	

Book referred

- (1) Spectroscopy: Pavia  
(2) Organic Chemistry: Morrison & Boyd.

Other activities

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17/07/17

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Signature of the Lecturer

## DAILY RECORD

 Date: 17/07/2017

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	F.Y. B.Sc.	Chemical bonding	* Introduction * Recapitulation - Carbon, its atomic no., mass no, valency - Importance of Chemistry.	
1:10 to 1:55 PM	S.Y. B.Sc.	Org. Reacn Mechan.	Aldol condensation:- - Statement - Compounds with $\alpha$ -H atoms - Writing the product of Aldol condensation - General reaction	

Book referred

- (1) Spectroscopy: Pavia  
(2) Organic Chemistry: Morrison & Boyd

Other activities

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Signature of the Lecturer

## DAILY RECORD


 Date: 18/07/2017

 DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
12:00 to 1:00 PM	M.Sc. II	NMR Spectro.	* Magnetic equivalence and non-equivalence * Homotopic protons * Enantiotopic protons * Diastereotopic protons * conditions for non- equivalence	
1:10 to 1:55 PM	F.Y. B.Sc.	Chemical bonding	* Types of bonds - Ionic bond - co-ordinate bond - covalent bond.	

 Book referred Spectroscopy: Pavia  
& Org. chemistry: Morrison & Boyd

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

 Date: 19/07/2017

 DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10 PM	F.Y. B.Sc.	Chemical bonding	* $\sigma$ -bond:- Definition Formation $\sigma$ -electrons strength * $\pi$ -bond Definition Formation $\pi$ -electrons strength * hybridisation	

 Book referred organic chemistry: Morrison & Boyd

Other activities

  
 Signature of the Lecturer



## DAILY RECORD

Date: 20/07/2017

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 01:55 pm	3.Y. B.Sc.	Practical	Heat of solution	
3:00 to 3:45 pm	3.Y. B.Sc.	org. Rea <sup>n</sup> Mech.	Aldol condensation - Mechanism - Problems/Examples from previous question papers.	

 Book referred Organic Chemistry: Morrison & Boyd.

 Other activities Question paper solving

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Signature of the Lecturer

## DAILY RECORD

Date: 21/07/2017

 DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 to 1:30 pm	M.Sc. Ind	NMR Spectroscopy	Diastereotopic protons - restricted rotations - smaller rings - presence of stereo centre. - Spin-spin splitting (i) with one neighbouring protons (ii) with two neighbouring protons (iii) with three neighbouring protons	
3:00 to 3:45 pm	3.Y. B.Sc.	org. Rea <sup>n</sup> Mech.	Problems from previous question papers.	

 Book referred (i) Pectroscopy: Pavia  
 (ii) organic Chemistry: Morrison & Boyd

 Other activities Question paper solving.

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Signature of the Lecturer

## DAILY RECORD

Date: 22/07/2017

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
11:00 to 12:00 PM	M.Sc. IInd	NMR Spectro	- Coupling constant - Factors affecting vicinal coupling constant ① Dihedral angle ② Karplus curve	
2:15 to 3:00 PM	S.Y. B.Sc.	Org. Reac <sup>n</sup> mecha	Examples based on this topic from previous questions papers.	

Book referred ① Spectroscopy: Pavia  
 ② Spectroscopy: William Kemp

Other activities Question Paper Solving

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Signature  
Signature of the Lecturer

## DAILY RECORD

Date: 24/07/2017

 DAY: Sunday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40 AM	F.Y. B.Sc.	Chemical bonding	Hybridisation - Definition - Types: - $sp^3$ , $sp^2$ & $sp$ - $sp^3$ hybridisation Formation of $\sigma$ & $\pi$	
3:45 to 4:30 PM	S.Y. B.Sc.	Stereo isomerism	:- stereochemistry :- stereoisomerism :- plane polarised light :- optical activity	

Book referred Organic chemistry: Morrison & Boyd

Other activities Power Point presentation

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Signature of the Lecturer

## DAILY RECORD

Date: 26/07/2017

 DAY: wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10pm	F.Y. B.Sc.	Chemical Bonding	<ul style="list-style-type: none"> <li>* <math>sp^3</math> hybridisation - Formation of <math>C_2H_6</math></li> <li>* <math>sp^2</math> hybridisation Example <math>C_2H_4</math></li> <li>* <math>sp</math> hybridisation Example <math>C_2H_2</math></li> </ul>	

 Book referred Organic Chemistry: Morrison & Boyd

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 27/7/2017

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 01:55pm	S.Y. B.Sc.	Practical	Phenol-water system (Critical soln temp)	
3:00 to 3:45pm	S.Y. B.Sc.	stereo isomerism	<ul style="list-style-type: none"> <li>* Enantiomers</li> <li>* Absolute configuration</li> <li>* Configuration</li> <li>* CIP rules for priority</li> </ul>	

 Book referred Organic stereochemistry: Nasipuri

 Other activities Power Point Presentation
  
 Signature of the Lecturer

## DAILY RECORD

Date: 28/07/2017

 DAY: Friday

Time	Class	Topic	Points covered	Remarks
12:00 to 01:00pm	M.Sc. II	PMR Spectroscopy	Factors affecting vicinal coupling constant (i) Examples based on Karplus curve (ii) Effect of electro-negative atom (iii) Effect of ring size	

 Book referred Introduction to Spectroscopy: Pavia

Other activities

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Signature of the Lecturer

## DAILY RECORD

Date: 29/07/2017

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
11:00 to 12:00pm	M.Sc. II	PMR Spectra	* Factors affecting vicinal coupling constant (i) Effect of bond order * Effect of ring size on geminal coupling constant * simple spectra / <del>non</del> first order spectra * complex spectra / non-first order spectra * Factors responsible for complex spectra (i) Non equivalence of J	

 Book referred Introduction to Spectroscopy: Pavia

Other activities

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Signature of the Lecturer

## DAILY RECORD

Date: 31/07/2017

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40 PM	F.Y. B.X.	Chemical bonding	* Advantages of hybridisation * Bond length	
12:00 to 1:00	M.Sc. 3rd	PMR Spectro.	Factors responsible for complex spectra 1) closeness of chemical shifts (ii) presence of stereo centre in a molecule * Spin systems (i) AX spin system (ii) AB spin system	

Book referred: Introduction to Spectroscopy, Pavia

Other activities: Use of model box to show  $sp^3$ ,  $sp^2$  &  $sp$  hybridized carbon

P. G.  
Signature of the Lecturer

## DAILY RECORD

Date: 01/08/2017

 DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
1:10 to 1:55	F.Y. B.X.	Chemical bonding	* Bond order & bond length * Bond angle * Bond energy Bond dissociation energy.	

Book referred: Organic Chemistry: Morrison & Boyd

Other activities: Use of model box.

P. G.  
Signature of the Lecturer

## DAILY RECORD

Date: 02/08/2017

 DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10pm	F.Y. B.Sc.	Chemical bonding	* Bond energy of CH <sub>4</sub> molecule. * Intramolecular forces - Attractive & repulsive forces * Properties of organic molecules - Bond Polarity	

 Book referred Organic Chemistry: Morrison & Boyd

Other activities

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Signature of the Lecturer

## DAILY RECORD

Date: 03/08/2017

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55pm	S.Y. B.Sc.	Practical	To determine the rate constant of ester hydrolysis (acid)	
12:00 to 1:00pm	M.Sc. (Incl)	PMR spectroscopy	AMX spin systems → styrene at 300MHz → pyrrole 2-carboxylic acid → Examples of assigning signals.	
3:00 to 3:45pm	S.Y. B.Sc.	Stereo chemistry	Assigning R/S configuration	

 Book referred Organic Chemistry: Morrison & Boyd

Other activities

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Signature of the Lecturer

## DAILY RECORD

Date: 07/08/2017

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40am	F.Y. B.Sc.	Chemical Bonding	* Polarity of molecules - Dipole moment * Intermolecular forces - Dipole-dipole interactions	

Book referred Organic Chemistry: Clayden.

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 08/08/2017

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
1:10 to 01:55pm	F.Y. B.Sc.	Chemical Bonding	* Hydrogen Bonding * Effect of hydrogen bonding on m.p. & B.P. * Van der Waals forces	

Book referred Organic Chemistry: Clayden

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 09/08/2017

 DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:40pm	F.Y. B.X	Chemical Bonding	- Vander Waals forces - structure and physical properties (i) Melting point	

 Book referred Organic Chemistry: Morrison & Boyd

Other activities

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Signature of the Lecturer

## DAILY RECORD

Date: 10/08/2017

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
8:45 to 10:55 to 11:55pm S.Y. B.Sc	S.Y. B.Sc	Practical	To determine the strength of $H_2O_2$ solution with standard $KMnO_4$ solution	
11:40 to 12:25 M.Sc. T.H.C.	M.Sc. T.H.C.	PMR Spectro	* Problems based on PMR spectroscopy * ABX spin system	

 Book referred Spectroscopy of org. compds :- Pavia

 Other activities Solving problems based on PMR Spectroscopy from previous SET Exam<sup>n</sup> question papers.

SP  
Signature of the Lecturer



## DAILY RECORD

Date: 11/08/2017

 DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40pm	M.Sc. IInd	PMR Spectro	* ABC spin system * Simplification of complex spectrum - Increased field strength	
3:00 to 3:34pm	S.Y. B.Sc.	stereo isomerism	R/S configuration - CIP rules - Determination of configuration of <sup>one</sup> chiral centre in molecule	
2:15 to 5:15 pm	F.Y. B.Sc.	practical	Determination of molar gas constant	

Book referred

Spectroscopy = P. S. Kalsi

Other activities

*pp*  
Signature of the Lecturer

## DAILY RECORD

Date: 12/08/2017

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25pm	M.Sc. IInd	PMR Spectro	Simplification of complex spectra - Increased field strength - Spin decoupling	
2:15 to 3:00pm	S.Y. B.Sc.	stereo chemistry	- Identification of chiral centres - Calculation of no. of possible isomers - compounds with two chiral centres * A, A type	
10:55 to 01:53pm	T.Y. B.Sc.	Practical	Preparation of benzoic acid from ethyl acetate	

Book referred

 (1) Spectroscopy & P. S. Kalsi  
 (2) Organic Chemistry: Morrison & Boyd

Other activities

*pp*  
Signature of the Lecturer

**DAILY RECORD**

Date: 16/08/2017

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 am to 11:40 am	F.Y. B.Sc.	Chemical Bonding	Structure and physical properties! - (1) Melting Point (2) Boiling Point (3) Solubility	

Book referred Organic Chemistry: Morrison &amp; Boyd

Other activities

Dr. H.C.  
Signature of the Lecturer

**DAILY RECORD**

Date: 16/08/2017

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10 pm	F.Y. B.Sc.	Chemical Bonding	Drawing organic structures * usual method * three dimensional method * zig-zag structures (1) alkanes (2) carbon rings (3) alkenes (4) alcohols & ethers	

Book referred Organic Chemistry: clayden

Other activities

Dr. H.C.  
Signature of the Lecturer

## DAILY RECORD

Date: 17/08/2017

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 01:55 pm	S.Y. B.Sc	practical	Estimation of Cu(II) iodometrically	
11:40 to 12:25 pm	M.Sc. IInd	PMR Spectro	Assign the signals to various protons & decoupling experiment	

 Book referred Spectroscopy: Pavia

Other activities

SP  
Signature of the Lecturer

## DAILY RECORD

Date: 18/08/2017

 DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40 pm	M.Sc. II	PMR Spectro	Assign the signals & decoupling experiment - Examples from previous question papers.	
2:00 to 3:45 pm	Six B.Sc.	stereo	Meso & Racemic mixture → Three isomers	
2:15 to 5:15 pm	F.Y. B.Sc.	practical	viscosity measurement of given liquids.	

 Book referred organic chemistry: Clayden

 Other activities Question paper solving (M.Sc. II organic)

SP  
Signature of the Lecturer

## DAILY RECORD

Date: 19/8/2017

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 to 03:55pm	T.Y. B.Sc.	Practical	Bromination of acetanilide	
11:40 to 12:25pm	M.Sc. I	IR, NMR Spectroscopy	Structure determination from given spectral data	
2:15 to 3:00pm	T.Y. B.Sc.	stereo	* Three exercises * Assigning R & S config to molecules containing two chiral centres	

 Book referred (1) Organic chemistry: Morrison & Boyd  
 (2) Stereochemistry: Nasipuri

Other activities Question paper solving (M.Sc. I)

P. K. U.  
Signature of the Lecturer

## DAILY RECORD

Date: 21/8/2017

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:00am	F.Y. B.Sc.	Chemical bonding	Common off	

Book referred organic chemistry: Morrison &amp; Boyd

Other activities

P. K. U.  
Signature of the Lecturer

## DAILY RECORD

Date: 24/08/2017

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55 pm	S.Y. B.Sc	Practica	Estimation of Alkalinity	
11:40 to 12:20 pm	M.Sc II	PMR Spectro	Problems from previous question papers based on PMR Spectroscopy	

Book referred Spectroscopy: Pavia

Other activities Question papers solving

[Signature]  
Signature of the Lecturer

## DAILY RECORD

Date 26/08/2017

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55 pm	T.Y. B.Sc	Practica	Preparation of hippuric acid from glycine	
2:15 to 3:00 pm	S.Y. B.Sc.	Stereo	R and S configuration of molecules having two chiral centres.	

Book referred organic chemistry: Morrison and Boyd.

Other activities

[Signature]  
Signature of the Lecturer

## DAILY RECORD

Date: 28/08/2017

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:45 am	F.Y. B.Sc.	Chemical bonding	Zig-zag structures of aldehydes, ketones, esters, carboxylic acids, amines and amides.	
2:15 to 5:15	F.Y. B.Sc.	Practical	Determination of $\Delta H$ and $\Delta S$	

 Book referred Organic Chemistry: Morrison & Boyd

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 29/08/2017

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
1:10 to 1:55 pm	F.Y. B.Sc.	Chemical bonding	Lewis structure and formal charge calculation of formal charge of $H_3O^+$ ion	

 Book referred Organic Chemistry: Morrison & Boyd

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 30/08/2017

 DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
7:45 to 12:20 to 1:10pm	F.Y. B.Sc.	Chemical bonding	calculation of formal charge: - (1) ozone molecule (2) $\text{CH}_3^{\ominus}$ ion (3) $\text{H}_2\text{SO}_4$ molecule	
2:15 to 3:00pm	S.Y. B.Sc.	stereo	Assigning R/S configuration  Examples from exercise given in text book	

 Book referred Stereochemistry of carbon compounds - Eliel Et.

Other activities

PP 16  
Signature of the Lecturer

## DAILY RECORD

Date: 31/08/2017

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 01:55 pm	S.Y. B.Sc.	Practical	Amount of aspirin in Aspirin tablet	
11:40 to 12:25 pm	M.Sc. II	NMR Spectro	Problems based on UV, IR & PMR Spectroscopy	
1:10 to 1:55 pm	F.Y. B.Sc.	Chemical bonding	Calculation of formal charge: - (1) $\text{HCN}$ (2) $\text{N}_2\text{O}$ (3) $\text{NO}_2^-$ (4) Drawing correct Lewis structure (5) Arrow pushing concept	

 Book referred Organic chemistry: Morrison & Boyd

 Other activities Question paper solving [M.Sc. I (OS)]

PP 16  
Signature of the Lecturer

## DAILY RECORD

Date: 03/09/2017

 DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:15pm	S.Y. B.Sc.	Stereo	*Stereoisomerism in cycloalkanes *Angle strain *Baeyer Strain theory	
12:25 to 1:30	M.Sc. II (B)	PMR Spectro	problems based on UV, IR and PMR spectroscopy.	
2:15 to 3:15	M.Sc. II (C)	Practical	*Two stage preparation - Preparation of 7-acetyloxycoumarin	

 Book referred Stereochemistry of carbon compd: Elie

 Other activities (i) Question paper solving (M.Sc. II (C))  
(ii) Use of model box



Dr. M. S. Srinivas  
Signature of the Lecturer

## DAILY RECORD

Date: 04/09/2017

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40am	F.Y. B.Sc.	Chemical bonding	Arrow pushing concept (i) Attack of base on strong acid (ii) $\pi$ bond as nucleophile (iii) Reaction of Grignard Reagent	
12:30 to 1:30	M.Sc. II (Corg)	PMR Spectro	Problem solving based on UV, IR & PMR spectroscopy.	
2:15 to 3:15	F.Y. B.Sc.	Practical	Hardness of water.	

 Book referred Organic chemistry: Morrison and Boyd

Other activities

Dr. M. S. Srinivas  
Signature of the Lecturer



## DAILY RECORD

Date: 05/09/2017

 DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
1:10 to 1:55pm	F.Y. B.Sc.	Chemical bonding	* Functional group * Structural effects * Inductive effect - Definition - Example	

 Book referred Organic Chemistry: Morrison & Boyd

Other activities

FR  
Signature of the Lecturer

## DAILY RECORD

Date: 06/09/2017

 DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10pm	F.Y. B.Sc.	Chemical bonding	* Important features of inductive effect * Types of Inductive effect - Electron donating inductive effect - Electron withdrawing inductive effect * Factors affecting inductive effect (1) Attached groups (2) Electronegativity	

 Book referred Organic Chemistry: Morrison & Boyd

Other activities

FR  
Signature of the Lecturer

# DAILY RECORD

Date: 01/03/2017

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 01:55 PM	S.Y. B.Sc.	Practical	(i) Amount of $\text{Na}_2\text{CO}_3$ in washing soda (ii) Preparation of phthalimide	
11:40 to 12:55 PM	M.Sc. II	PMR Spectroscopy	Class test on PMR Spectroscopy	

Book referred Organic Chemistry: Morrison & Boyd

Other activities Spectroscopy: Pan a

  
Signature of the Lecturer

# DAILY RECORD

Date: 02/03/2017

DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25	S.Y. B.Sc.	stereo	Observations of Baeyer strain theory + conformations of cyclohexane - chair form - Boat form	

Book referred Stereochemistry: E.L. Eliel

Other activities Use of model box

  
Signature of the Lecturer

# DAILY RECORD

Date: 09/09/2017

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:55pm	F.Y. B.Sc. Pract.	Practical	Preparation of methoxy naphthalene	
11:40 to 1:25pm	M.Sc. II (Org)	PMR Spectro	Problems Solving from function papers.	
2:15 to 3:00	S.Y. B.Sc.	Test	Practic Test on Unit 1- organic Reaction Mechanism	

Book referred

organic Chemistry: Morrison &amp; Boyd.

Other activities

Signature of the Lecturer

# DAILY RECORD

Date: 11/09/2017

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	F.Y. B.Sc.	Chemical bonding	Factors affecting Inductive effect Applications of inductive effect Effect on strength of acids	
12:25 to 1:45 pm	M.Sc. II	PMR Spectro.	Problems Solving NOE experiment	

Book referred

organic chemistry 1- Morrison &amp; Boyd

Other activities

Signature of the Lecturer

# DAILY RECORD

Date: 12/09/2017

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40 AM	H3C-II	NMR Spectra	<ul style="list-style-type: none"> <li>Physical properties of <math>^{13}\text{C}</math> and <math>^1\text{H}</math> nucleus</li> <li>Problems in scanning <math>^{13}\text{C}</math> NMR.</li> </ul>	
1:30 to 2:05 PM	F.Y. B.Sc.	Chemical bonding	<ul style="list-style-type: none"> <li>Effect of electron donating groups on strength of acids</li> <li>Effect of electron withdrawing groups on strength of acids</li> </ul>	

Book referred

Spectroscopy: Pavia  
Organic Chemistry: Morrison & Boyd

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 13/09/2017

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10 PM	F.Y. B.Sc.	Chemical bonding	<ul style="list-style-type: none"> <li>Effect of % s character on strength of acids.</li> <li>Strength of organic bases</li> <li>Effect of <math>e^-</math> donating groups electron withdrawing groups and % s character on strength of bases</li> <li>Resonance effect</li> </ul>	

Book referred

Organic chemistry: Peter Sykes

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 14/09/2017

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 2:55pm	S.Y. B.Sc.	Practical	Preparation of ozone from glucose	
11:40 to 12:27pm	M.Sc. II <sup>nd</sup>	CMR Spectro.	* Difficulties in scanning of CMR * Important features of CMR * Chemical shift values of carbon atoms	
1:10 to 1:53pm	F.Y. B.Sc.	Chemical bonding	Examples of resonance (i) phenoxide ion (ii) aniline (iii) Nitrobenzene (iv) carbonyl compound	

Book referred (1) Spectroscopy: Pavia  
(2) organic chemistry: Peter Sykes

Other activities

PF-11  
Signature of the Lecturer

# DAILY RECORD

Date: 15/09/2017

DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25pm	S.Y. B.Sc.	stereo	* equatorial & axial bonds in cyclohexane * Ring flipping * comparison of chair & boat conformation	
12:25 to 1:10pm	M.Sc. II <sup>nd</sup>	CMR Spectro.	* Types of carbon atoms & number of signals * Assign the signals to various carbons	
2:15 to 5:15pm	M.Sc. I <sup>st</sup>	Practical	Preparation of p-methyl (cresyl) benzoate.	

Book referred (1) Spectroscopy: Pavia  
(2) stereochemistry: E-L. Eliel

Other activities

Use of model

PF-11  
Signature of the Lecturer

## DAILY RECORD

Date: 16/09/2017

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40pm	F.Y. B.Sc.	Chemical bonding	Writing of resonance structures * Types of resonance effect	
10:55 to 01:55pm	F.Y. B.Sc.	Practical	Preparation of adipic acid from cyclohexanone	
2:45 to 3:30pm	S.Y. B.Sc.	Stereo Chem.	Comparison of chair & boat conformation of cyclohexane * Mono substituted cyclohexane	

Book referred: Stereochemistry: Nassipuri  
Organic Chemistry: Clayden, Peter Sykes

Other activities: Use of ball and stick model

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6/10/17

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Signature of the Lecturer

## DAILY RECORD

Date: 18/09/2017

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40pm	F.Y. B.Sc.	Stereo chemical bonding	① Conditions for resonance ② Resonance effect and acid strength ex:- phenols are more acidic than alcohols.	
12:25 to 1:40pm	M.Sc. II (Org.)	CMR Spectro	Examples based on $^{13}\text{C}$ NMR spectroscopy	

Book referred: Organic Chemistry: Peter Sykes

Other activities: Student Seminar

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Signature of the Lecturer

# DAILY RECORD

Date: 19/09/2017

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
1:10 to 1:55 pm	F.Y. B.Sc.	Chemical bonding	<ul style="list-style-type: none"> <li>* Carboxylic acids are stronger than alcohols.</li> <li>* Nitromethane and methane</li> <li>* Strength of bases! -</li> <li>(1) Guanidine is a strongest base.</li> </ul>	
2:15 to 3:00 pm	S.Y. B.Sc.	Exam.	Internal Examination	

Book referred Organic Chemistry: Peter Sykes

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 20/09/2017

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10 pm	F.Y. B.Sc.	Chemical bonding	<ul style="list-style-type: none"> <li>* Phthalimide is as acidic as phenols.</li> <li>* Difference between inductive and resonance</li> <li>* Hyperconjugation</li> </ul>	
2:15 to 3:00 pm	S.Y. B.Sc.	stereo.	<p>Methyl cyclohexane: - axial and equatorial isomers.</p> <p>→ Disubstituted cyclohexane</p>	

Book referred (1) Organic Chemistry: Peter Sykes  
(2) Stereochemistry: P.S. Kalsi

Other activities Use of ball and stick model

  
Signature of the Lecturer

## DAILY RECORD

Date: 21/09/2017

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:25 pm	S.Y. B.Sc.	Practical	Preparation of glucosazone from glucose	
11:40 to 12:25 pm	M.Sc. II	Org. chem.	Problems based on NMR spectroscopy	

Book referred Spectroscopy: Pavia

Other activities Question Paper solving (M.Sc. II)

*sp. No.*  
Signature of the Lecturer

## DAILY RECORD

Date: 22/09/2017

DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25 pm	S.Y. B.Sc.	Stereo	(i) 1,2-disubstituted cyclohexane (ii) 1,3-disubstituted cyclo. (iii) 1,4-disubstituted cyclo. (iv) Locking of Conformation	
12:25 to 1:30 pm	M.Sc. II	MAR Spectro	Rules of fragmentation - To form more stable carbocation - To lose stable molecule - Retro-Diels-Alder Reaction	
2:15 to 5:15 pm	M.Sc. II	organic chemi practical	Two stage Preparation - Oxidation & reduction	

 Book referred (i) Spectroscopy: Jagmohan  
(ii) Stereochemistry: Nasipuri

Other activities Question Paper solving (S.Y. B.Sc.)

*sp. No.*  
Signature of the Lecturer



## DAILY RECORD

Date: 23/09/2017

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:15 to 1:50 pm	T.Y. B.Sc.	practical	Preparation of p-chloroacetanilide from acetanilide	
11:40 to 12:25 to 12:45 to 1:10 pm	M.Sc. Ph.D.	Mass Spectro.	Examples based on CMR and Mass Spectrometry	
2:15 to 3:00 pm	S.Y. B.Sc.	stereo	Question paper solving	

Book referred

(1) Spectroscopy - Jagmohan

Other activities

Previous question paper solving



Signature of the Lecturer

## DAILY RECORD

Date: 25/09/2017

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40 pm	F.Y. B.Sc.	Chemical bonding	Hyperconjugation in alkenes Steric effects: - Its effects on basicity of aniline, <i>o</i> -di-methyl aniline & 2,6-dimethyl-N,N-dimethyl aniline	
12:25 to 1:10 pm	M.Sc. Ph.D.	class test	Class test on <sup>13</sup> C NMR spectroscopy	

Book referred

Organic chemistry: Peter Sykes

Other activities

Class Test


 Signature of the Lecturer

## DAILY RECORD

Date: 26/09/2017

 DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
1:20 to 1:50pm	PHY-D SC.	Chemical bonding	Steric effects: - Salt of trimethyl borane with triethyl amine is unstable but with quinuclidine it is stable  * Tautomerism:- Definition	

Book referred

Organic Chemistry: Peter Sykes

Other activities

PK  
Signature of the Lecturer

## DAILY RECORD

Date: 27/09/2017

 DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40pm	PHY-D SC.	Mass Spectro	Rules of fragmentation McLafferty rearrangement in carbonyls, alkenes etc.	
12:25 to 1:10pm	PHY-D SC.		Tautomerism:- ① Keto-Enol tauto. ② Nitro-acid with ③ Imine-Iminol etc.	

Book referred

Organic Chemistry: Peter Sykes

Other activities

Power point presentation (PHY-D SC.)

PK  
Signature of the Lecturer

# DAILY RECORD

Thursday

Date: 23/10/2017

DAY: ~~Friday~~

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40am	M.Sc. 2 <sup>nd</sup> Yr	Mass Spectro	Ortho effect - In alkenes - In aromatic compound. Important fragmentation in alkyl benzenes	
1:10 to 1:55	F.Y. B.Sc.	s-block elements	Introduction! - ① quantum numbers ② Long form of periodic table	

Book referred

Spectroscopy - Jayashan

Other activities

Periodic table

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23/10/17

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Signature of the Lecturer

# DAILY RECORD

23-9-17: Karanveer Jayanti

Date: 23/10/2017

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
2:10 to 2:55 pm	F.Y. B.Sc.	s-block elements	Special position of hydrogen Group IA = - Electronic configuration - occurrence	

Book referred

Inorganic Chemistry: J.D. Lee

Other activities

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Signature of the Lecturer

## DAILY RECORD

 Date: 24/10/2017

 DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
10:20 to 11:10 am	B.Sc.	s-block elements	Extraction of metals Trends in properties (i) size of atoms & ions (ii) oxidation state (iii) Ionization potential (iv) Reactivity (v) solution in $Mg$	
3:30 to 6:30 pm	M.Sc. II <sup>nd</sup> year	IR spectroscopy	Fragmentation in alkenes & alkyne	

Book referred

- (i) Spectroscopy - Pavia
- (ii) Inorganic Chemistry: J.D Lee

Other activities

PP  
Signature of the Lecturer

## DAILY RECORD

 Date: 25/10/2017

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
1:10 to 1:55 pm	B.Sc.	s-block elements	Anomalous behavior of lithium - diagonal relationship of lithium with Mg. - Applications of alkali metals	
3:30 to 5:30 pm	M.Sc. II <sup>nd</sup> year	Org. Chem. - Mass Spectro	Fragmentation of alcohols - Benzyl alcohols - Phenols - cyclic alcohols etc.	

Book referred

- (i) Spectroscopy: Jagmohan
- (ii) Inorganic Chemistry: Jagmohan

Other activities

PP  
Signature of the Lecturer

## DAILY RECORD

Date: 06/10/2017

DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25 PM	FY B-Sc	s-block elements	Separation of alkali metals by using Crocon ethers Group II A :- electronic configuration of element - occurrence - extraction	
2:30 to 4:30 PM	M.Sc II organic chemistry	Fragmentation in - amines - amides - nitroles etc. * 2D NMR techniques		

Book referred

- 1) Spectroscopy: Jayraman
- 2) Organic chemistry: I.D. Lee

Other activities

*[Signature]*  
Signature of the Lecturer

## DAILY RECORD

Date: 07/10/2017

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40 pm	s-block elements	s-block elements	- Trends in property - Size of atoms & ions - Ionization energy - reactivity - Anomalous behaviour of Be	
2:30 to 4:30 pm	M.Sc II 1/1	2D NMR	2D NMR techniques - COSY - HETCOR - TOCSY - NOESY etc. - DEPT	

Book referred

- 1) Spectroscopy: Silverstein
- 2) Inorganic chemistry: J.D. Lee

Other activities

*[Signature]*  
Signature of the Lecturer

## DAILY RECORD

Date: 09/10/2017

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
11:00 to 12:30 pm	Ex. B.S.I.	S-block elements	* Diagonal relationship between Be & Al * Applications of group II elements * Oxides of Group I & II elements.	
	chemistry along		* Nomenclature of alkanes.	
2:45 to 4:30	phys. chem. II Ind	spectro	* Problems based on UV, IR, PMR, CMA & Mass spectrometry * 2D NMR techniques	

Book referred

- Inorganic Chemistry: S.D. Lee
- Organic Chemistry: Morrison & Boyd.

Other activities

Question paper solving

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Signature of the Lecturer

## DAILY RECORD

Date: 10/10/2017

 DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
1:30 to 3:30 pm	H.W.C. II Ind	2D NMR	- Problems based on 2D NMR techniques	

Book referred

Spectroscopy: Silverstein

Other activities

Question Paper solving

pp  
Signature of the Lecturer

## DAILY RECORD

Date: 11 / 10 / 2017

 DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
2:15 to 4:15 PM	Misc. Inl	2D NMR	Problems based on combined applications of IR, Mass, PMR, OMR & 2D NMR techniques.	

 Book referred Spectroscopy - Silverstein

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 12 / 10 / 2017

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
2:30 to 4:30 PM	Misc. Inl	2D NMR	Problems based on combined applications of IR, Mass, PMR, OMR & 2D NMR techniques.	

 Book referred Spectroscopy: Silverstein

Other activities

  
 Signature of the Lecturer

# DAILY RECORD

Date: 13/10/2017

DAY: Friday

Time	Class	Topic	Points covered	Remarks
<del>M.Sc</del> <del>Eng</del> 2:30 to 4:30 PM	M.Sc Eng	CMR  class Test	Calculation of Chemical shift values of $^{13}\text{C}$ NMR  Based on PMR, CMR and MAS	

Book referred

Spectroscopy: Pavia

Other activities

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14.10.17

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Signature of the Lecturer



# DAILY RECORD

Thursday

Date: 30 / 11 / 2017

DAY: 30 / 11 / 2017

Time	Class	Topic	Points covered	Remarks
10:55 to 01:55	S.Y. B.Sc. ✓	Practical	organic qualitative analysis	

Book referred Practical chemistry

Other activities —

  
Signature of the Lecturer

## DAILY RECORD

 Date: 1/12/2017

 DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25	S.Y. B.Sc	Hetero cyclic chem.	Introduction to alicyclic and heterocyclic chem compounds.	

 Book referred Heterocyclic chemistry: Soule J.A.

 Other activities —

PF  
Signature of the Lecturer

## DAILY RECORD

 Date: 2/12/2017

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
2:15 to 3:00	S.Y. B.Sc	Hetero cyclic chem	Types of heterocyclic compounds Nomenclature of heterocyclic compounds	
10:55 to 1:55	T.Y. B.Sc	Practical	organic qualitative analysis.	

 Book referred Heterocyclic chemistry.

 Other activities —

PF  
Signature of the Lecturer

PF  
16/12/17

## DAILY RECORD

Date: 4/12/2017

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 TO 12:40	F.Y. B.S.	Alkanes	* Nomenclature * Methods of Preparation (1) Hydrogenation (2) Red <sup>n</sup> of alkyl halides (3) Wurtz reaction (4) Hydrolysis of Grignard reagent	

Book referred

organic chemistry! Morrison &amp; Boyd.

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 5/12/2017

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
1:10 TO 1:55	F.Y. B.S.	Alkanes	(v) Decarboxylation of fatty acids * Reactions of alkanes (1) Halogenation (2) combustion.	

Book referred

organic chemistry! Morrison &amp; Boyd.

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 6/12/2017

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
3:00 3:45 pm	M.Sc IST	Spectro	* Introduction to Spectroscopy * Advantages of spectroscopic techniques over chemical analysis	

Book referred Introduction to spectroscopy; Pavia

Other activities

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## DAILY RECORD

Date: 08/12/2017

DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25 pm	Sy. B.Sc.	Hetero cyclic Chemistry	* Aromaticity of furan, thiophene, pyrrole & piperidine * Aromaticity of quinoline & isoquinoline * Prep <sup>n</sup> of furan, pyrrole & thiophene * Nitration of furan, thiophene & pyrrole.	

Book referred heterocyclic chemistry; Sies &amp; Smith

Other activities

*PP*  
Signature of the Lecturer

## DAILY RECORD

Date: 9 / 12 / 2017

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:15pm	T.Y. B.Sc.	Practical	Organic qualitative Analysis	
2:15 to 3:00pm	S.Y. B.Sc.	Hetero- cyclic Chemistry	Reactions of pyrrole furan & Thiophene  (i) Sulphonation (ii) Acetylation (iii) Reduction etc.	

 Book referred Heterocyclic Chemistry - Jure & Smith,

Other activities

*[Signature]*  
16/12/17

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Signature of the Lecturer

## DAILY RECORD

Date: 11 / 12 / 2017

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40pm	F.Y. B.Sc.	Alkenes	① Cis-trans isomerism ② Nomenclature of alkenes	
9:45 to 4:30	S.Y. B.Sc.	Hetero- cyclic chem.	Synthesis of Pyridine (i) From acrolein (ii) From acetylene Reactions of Pyridine (i) Nitration (ii) Sulphonation (iii) Reduction	

 Book referred Heterocyclic Chemistry Jure & Smith  
② Organic Chemistry - Morrison & Boyd

Other activities

*[Signature]*  
Signature of the Lecturer

## DAILY RECORD

Date: 12/12/2017

 DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
1:10 to 1:57pm	F.Y. BSc	Alkenes	preparation of alkenes by elimination (a) Dehydrohalogenation (b) Dehydration	
2:00 to 3:45pm	M.Sc Ist	UV Spectroscopy	* Spectroscopy * Regions of electromagnetic radiations * Types of electronic excitations	

Book referred: ① Spectroscopy: P.S. Kalsi  
 ② Organic Chemistry: Morrison & Boyd.

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 13/12/2017

 DAY: wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10pm	F.Y. BSc	alkenes	(C) Dehalogenation (d) Addn of H <sub>2</sub> (e) Lindlar catalyst (f) Na or Li in NH <sub>3</sub> form alkynes	
2:15 to 3:50pm	M.Sc Ist	UV Spectroscopy	Reactions of alkenes (a) Addition of H <sub>2</sub> (b) Addition of X <sub>2</sub> (c) Addn of H-X	
			Important terms used: (1) Chromophore (2) Auxochrome (3) Bathochromic shift (4) Blue shift	

Book referred: ① Spectroscopy: P.S. Kalsi  
 ② Organic Chemistry: Morrison & Boyd.

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 14/12/2017

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 01:55pm	S.Y. B.Sc.	Practical	Organic qualitative analysis: acetone + oxalic acid	
3:30 to 4:30	M.Sc 1st	UV spectro.	(i) Hyperchromic & hypochromic shift (ii) Effect of conjugation on uv bands (iii) Woodward & Fieser Rules for calculation of $\lambda_{max}$ of dienes	

 Book referred Spectroscopy: P.S. Kalsi

Other activities

P. S. Kalsi  
Signature of the Lecturer

## DAILY RECORD

Date: 15/12/2017

 DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:15pm	S.Y. B.Sc.	Hetero chem.	* Preparation of Quinoline by Skraup's synthesis * Synthesis of Isoquinoline from Bischler - Napieralski synthesis	
2:15 to 3:15pm	M.Sc 1st	UV spectro.	problems based on UV spectroscopy - calculation of $\lambda_{max}$ for dienes	

 Book referred ① Heterocyclic Chemistry: Joule & Smith  
 ② spectroscopy: P.S. Kalsi

 Other activities question paper solving

P. S. Kalsi  
Signature of the Lecturer

## DAILY RECORD

Date: 16/12/2017

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:05 PM	T.Y. B.Sc.	Practical	Organic qualitative analysis Base + Neutral	
2:15 to 3:00 PM	G.Y. B.Sc.	theoretical chem.	solving of examples from question papers	
3:45 to 4:30	M.Sc. 1st	UV Spectro	Calculation of $\lambda_{max}$ for enones examples from previous question papers.	

Book referred Spectroscopy: P.S. Kalsi

Other activities Question paper solving

16/12/17

P. S. Kalsi  
Signature of the Lecturer

## DAILY RECORD

Date: 18/12/2017

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:10	F.Y. B.Sc.	alkenes	Reactions of alkenes - Peroxide effect - Addition of $H_2SO_4$ - Addition of water - Addition of $HO-X$	

Book referred organic chemistry: Morrison &amp; Boyd

Other activities

P. S. Kalsi  
Signature of the Lecturer



## DAILY RECORD

Date: 19/12/2017

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
1:20 to 1:55pm	F.Y. B.Sc.	Alkenes	- Hydroxylation - Hydroboration - Ozonolysis - Cleavage by $KMnO_4$ $NaIO_4$	
3:45 to 4:30pm	M.Sc. 1st	UV spectra	Reasons based on UV spectroscopy	

Book referred: Organic Chemistry - Morrison &amp; Boyd

Other activities: Question papers solving

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## DAILY RECORD

Date: 20/12/2017

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10 pm	F.Y. B.Sc.	Dienes	- Definition - Types - Preparation - Reactions of dienes (i) Halogenation (Bromination) (ii) Add <sup>n</sup> of HX (iii) Add <sup>n</sup> of $H_2$	

Book referred: Organic Chemistry: Morrison &amp; Boyd

Other activities

PP  
Signature of the Lecturer

# DAILY RECORD

Date: 21/12/2017

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	S.Y. B.Sc.	Practical	Organic qualitative analysis Base + Neutral	

Book referred

Other activities

*[Signature]*  
15-11-17

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Signature of the Lecturer

22/12/17 Seminar  
23/12/17 RKM

# DAILY RECORD

Date: 26/12/2017

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
1:10 to 4:55 PM	F.Y. B.Sc.	Alkyne	Definitions - Preparation (i) Industrial prep <sup>n</sup> (ii) Laboratory prep <sup>n</sup> - Reactions of alkynes	

Book referred

Other activities

Organic Chemistry: - Morrison &  
Boyd

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Signature of the Lecturer

# DAILY RECORD

Date: 27/12/2017

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:30pm	F.Y. to B.Sc.	Aromatic & non aromatic compounds	Homocyclic aromatic & non aromatic compounds * Benzene & its derivatives (1) Monosubstituted (2) Disubstituted (3) Polysubstituted benzenes.	

Book referred: Organic chemistry: Morrison & Boyd

Other activities

  
Signature of the Lecturer

# DAILY RECORD


Date: 28/12/2017

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 01:55pm	S.Y. to B.Sc.	Practical	Organic qualitative analysis - Base + Neutral	
3:00 to 3:45pm	S.Y. to B.Sc.	Reagents	* Pt and Pd catalyst * Rosenmund Reduction	

Book referred: Organic chemistry: Morrison & Boyd

Other activities

  
Signature of the Lecturer

# DAILY RECORD

DAY: Friday

Date: 29/12/2017

Time	Class	Topic	Points covered	Remarks
11:40 TO 12:25 PM	Sr. B.Sc.	Reduction	Birch Reduction - Mechanism of birch Red <sup>n</sup> with benzene - effect of electron donating & withdrawing groups	
2:00 TO 5:15 PM	M.Sc. 2 <sup>nd</sup> yr. org.	practical	Green Chemistry experiment. IR spectroscopy - principal - Modes of vibration - Fundamental modes of vibrations	
2:15 TO 3:00	M.Sc. I	IR spectro		

Book referred: ① spectroscopy: Part 2  
 ② org. chemistry: clayden

Other activities: ① Student seminars (as student)  
 ② Question paper solving  
 ③ Power point presentation

Signature of the Lecturer

# DAILY RECORD

DAY: Saturday

Date: 30/12/2017

Time	Class	Topic	Points covered	Remarks
2:15 TO 3:00	Sr. B.Sc.	Red <sup>n</sup>	Uses of Na in liq. NH <sub>3</sub> (1) Red <sup>n</sup> of acetylenes (2) Red <sup>n</sup> of amides to ald. (3) Red <sup>n</sup> of nitro to amines	
10:55 TO 1:15 PM	Ty. B.Sc.	Practical	organic qualitative analysis - solid + liquid base + neutral	

Book referred: organic chemistry: clayden

Other activities

Signature of the Lecturer

# DAILY RECORD

Date: 02/01/2018

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
1:40 to 1:55 PM	FY. B.Sc.	Aromatic Compounds	① Synthesis of naphthalene by Haworth synthesis ② Reactions of Naphthalenes.	

Book referred: Organic chemistry: Clayden

Other activities

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# DAILY RECORD

Date: 03/01/2018

DAY: wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10	FY. B.Sc.	Aromatic Compounds	Reactions of naphthalene: oxidation & reduction	

Book referred: organic chemistry: Morrison & Boyd

Other activities

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Signature of the Lecturer

# DAILY RECORD

Date: 04/01/2015

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:57pm	Sy. BSc	Practical	Inorganic qualitative Analysis	
3:30 to 4:55pm	BSc	Theory	Preparation and Reactions of Anthracene	

Book referred Morrison and Boyd's organic chemistry

Other activities M.Sc. II<sup>nd</sup> student projects

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# DAILY RECORD

Date: 05/01/2015

DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25pm	Sy. BSc	Reagents	- LiAlH <sub>4</sub> (uses) - NaBH <sub>4</sub> and LiAlH <sub>4</sub> - Examples based on NaBH <sub>4</sub> & LiAlH <sub>4</sub>	

Book referred Reactions, rearrangements & reagents

Other activities M.Sc. II project ; SN<sub>2</sub> only

[Signature]  
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## DAILY RECORD

Date: 06/01/2018

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
8:45 <del>8:55</del> 2:15 TO 3:00	2+ SY. BSc	Reduction	Reduction of $-NO_2$ group to $-NH_2$ group by $Sn/HCl$ Examples & mechanisms	
3:00 TO 3:45	MSc 2	IR	IR Spectra of different compounds like: 1) alkenes, alkenes & alkyne 2) alcohols & phenols 3) Carbonyl compounds	

 Book referred Organic Chemistry: Morrison & Boyd

 Other activities Spectroscopy: Parag
MSc 3! - Student seminars (02 students)

PP-16  
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## DAILY RECORD

Date: 07/01/2018

 DAY: Sunday  
Monday

Time	Class	Topic	Points covered	Remarks
4:0:55 TO 11:55pm	FY. BSc.	Stereo Chemistry	Isomerism + Definition of Isomers & isomerism * Types of isomerism * Drawing organic molecules in - saw-horse - Newman - Fisher projection formula	

 Book referred Stereochemistry: Eiel

 Other activities Use of models.

PP-16  
Signature of the Lecturer

## DAILY RECORD

Date: 08/01/2018

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 TO 11:40	F.Y. B.Sc. chem.	stereo.	Conformations of ethane and n-butane	
2:15 TO 5:15 PM	F.Y. B.Sc.	Practical	Inorganic qualitative analysis	

Book referred Stereochemistry: E. L. Eliel

Other activities Use of models.

PP  
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## DAILY RECORD

Date: 09/01/2018

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
1:10 TO 1:55 PM	F.Y. B.Sc.	stereo chem.	+ stability of all the conformations of n-butane  + Geometrical Isomerism - cis & trans notations - E and Z notations	

Book referred Stereochemistry: E. L. Eliel

Other activities Use of molecular models.

PP  
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## DAILY RECORD

Date: 10/01/2018

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10pm	F.Y. B.Sc.	Steeer Chem.	CIP rules to decide the priority of atoms or group Examples from previous question papers.	
2:15 to 3:00pm	S.Y. B.Sc.	Reduction	Synthesis (1) Reduction of NO <sub>2</sub> (2) Reduction of Quinones (3) Reduction of Benzoin	

Book referred: organic stereochemistry: P-S-Kel's

Other activities: organic chemistry: Morrison &amp; Boyd

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## DAILY RECORD

Date: 11/01/2018

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:50 to 11:40pm	S.Y. B.Sc.	Practical	Inorganic Qualitative analysis	
2:15 to 3:00pm	M.Sc. Eng	Practical	Green chemistry	

Book referred: Practical chemistry: Vogel.

Other activities

sp-lla  
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## DAILY RECORD

Date: 12/01/2018

DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25 PM	Sy. B.C.	Red <sup>n</sup>	Mechanism of reduction of $-NO_2$ to $-NH_2$ by $Sn/HCl$ cis hydroxylation by $KMnO_4$ & $OsO_4$	
2:15 to 3:00 PM	M.Sc. I	I.R. Spectro	Bands in aldehydes & ketones Factors affecting carbonyl stretching frequency.	
2:15 to 5:15	M.Sc. II	practical	Green Chemistry	

Book referred: Organic chemistry: Morrison & Boyd  
 spectroscopy: Pavia

Other activities

[Signature]  
 Signature of the Lecturer

## DAILY RECORD

Date: 12/01/2018

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 to 01:52 PM	T.Y. B.Sc.	practical	Organic qualitative Analysis	
2:15 to 3:20 PM	S.Y. B.Sc.	oxidation	oxidation by $KMnO_4$ and $OsO_4$	

Book referred: Organic chemistry: Morrison & Boyd

Other activities

[Signature]  
 Signature of the Lecturer

## DAILY RECORD

Date: 14/01/2018

 DAY: Sunday

Time	Class	Topic	Points covered	Remarks
10:30 to 12:00 PM	F.Y. B.Sc.	stereo.	* Assignment of R/S configuration to the compounds using CIP rules  * Enantiomers  * Example solving from previous question papers	

 Book referred stereochemistry: Nasipuri

 Other activities Solving & question papers.

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## DAILY RECORD

Date: 15/01/2018

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:30 to 11:40	F.Y. B.Sc.	stereo	* optical Isomerism * optical activity * dextro rotatory * laevo rotatory * coupling of polarimeter	
2:15 to 5:15 PM	F.Y. B.Sc.	Practical	Inorganic qualitative analysis	

 Book referred stereochemistry: Nasipuri

Other activities

SP  
Signature of the Lecturer

## DAILY RECORD

Date: 16/01/2018

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
1:10 TO 1:50pm	FY. B.Sc.	Stereo	Problems & R of S configuration from previous question papers	

Book referred Stereochemistry: Nasipuri

Other activities

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## DAILY RECORD

Date: 17/01/2018

DAY: wednesday

Time	Class	Topic	Points covered	Remarks
2:15 to 3:00 pm	M.Sc Ist	IR spectra	* Selfie compounds * Alkyl and aryl halides * solving of problems based on IR spectroscopy	

Book referred Spectroscopy: Pavia

Other activities Power Point Presentation

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## DAILY RECORD

Date: 18/01/2018

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 01:55	S.Y. B.Sc.	Practical	Inorganic- Qualitative Analysis	
1:10 to 1:55	F.Y. B.Sc.	Stereo Chem. Alkyl halides	* Configuration - relative & absolute * alkyl halides: - Nomenclature Preparation	

 Book referred Organic Chemistry: Morrison & Boyd

Other activities

SP  
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## DAILY RECORD

Date: 19/01/2018

 DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25 PM	S.Y. B.Sc.	oxidation	* Oxidation of alkenes to give epoxides * Uses of epoxides * Pyridinium chlorochromate - Preparation & uses * $K_2Cr_2O_7$ - oxidation of $1^\circ$ & $2^\circ$ alcohols	
2:15 to 3:00 PM	M.Sc. Ist	IR spectro.	problems based on IR spectroscopy from previous question papers.	

 Book referred Reagents in org. synthesis: Athluwalia

 Other activities Question paper solving

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## DAILY RECORD

Date: 20/01/2018

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40am	S.Y. B.Sc.	Alkyl halides	Methods of preparation of alkyl halides	
10:55 to 1:55pm	T.Y. B.Sc.	Practical	Organic Qualitative analysis	
2:15 to 3:00pm	S.Y. B.Sc.	oxidation	* oxidation of 3° alcohol using K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> and conc. H <sub>2</sub> SO <sub>4</sub>  * Jones reagent - preparation & uses	

Book referred

Reagents in org. synthesis: S.N. Sanyal

Other activities

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Dr. K.  
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## DAILY RECORD

Date: 22/01/2018

 Monday  
DAY: 22/01/2018

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40pm	F.Y. B.Sc.	Alkyl halides	Reactions of alkyl halides  - Substitution Reactions - Elimination Reactions - Wurtz reaction.	
2:15 to 5:15pm	Prac F.Y. B.Sc.	Practical	Inorganic Qualitative analysis	

Book referred

Organic Chemistry: Morrison & Boyd

Other activities

Dr. K.  
Signature of the Lecturer

## DAILY RECORD

Date: 23/01/2018

 DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
1:10 to 1:55 PM	F.Y. B.Sc.	Alcohol	- Definition - Nomenclature of alcohols - Methods of preparation of alcohols by industrial method	

 Book referred Organic Chemistry: Morrison & Boyd

Other activities

SP  
Signature of the Lecturer

## DAILY RECORD

Date: 24/01/2018

 DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10 PM	F.Y. B.Sc.	Alcohol	Preparation of alcohols by laboratory method - From alkenes - Oxo process - Fermentation * Prep in laboratory (1) From alkyl halides (2) hydration of alkenes (3) oxymercuration & demercuration	

 Book referred Organic Chemistry: Morrison & Boyd

Other activities

SP  
Signature of the Lecturer

## DAILY RECORD

Date: 25/03/2018

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
1:10 to 1:35	F.Y. B.Sc.	Alcohol	Preparation of alcohols by <u>hydroboration method</u> :- (1) hydroboration (2) Red <sup>n</sup> of carbonyl compounds (3) Red <sup>n</sup> with sodium amalgam, LAH, & from Grignard reagents.	

 Book referred organic chemistry: Morrison & Boyd.

Other activities

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## DAILY RECORD

Date: 27/01/2018

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:35 to 11:40	F.Y. B.Sc.	Alcohol	Reactions of alcohols (1) Reactions involving replacement of -OH group. (2) Dehydration of alcohols (3) Williamson's synthesis (4) Formation of alkoxide (5) Ester formation (6) Oxidation.	

 Book referred organic chemistry: Morrison & Boyd

Other activities

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Signature of the Lecturer



Extra lecture  
**DAILY RECORD**

Date: 28/01/2018

DAY: Sunday

Time	Class	Topic	Points covered	Remarks
10:45 to 12:45	F.Y. B51	P-Block element	<ul style="list-style-type: none"> <li>* Position in periodic table</li> <li>IIA group: -</li> <li>- electronic config.</li> <li>- Anomalous behaviour of beryllium</li> <li>- Trends in properties</li> <li>- Structure &amp; properties of borates</li> <li>- Halides of aluminium</li> <li>* IVA group</li> <li>- electronic config.</li> <li>- Anomalous behaviour of carbon</li> <li>- Trends in properties</li> <li>- Allotropes of carbon</li> </ul>	

Book referred: Introduction to Ino. Chem. J. D. Lee

Other activities

PP 12  
 Signature of the Lecturer

**DAILY RECORD**

Date: 29/01/2018

DAY: Monday

Time	Class	Topic	Points covered	Remarks
2:15 to 3:00 pm	M.Sc. JST	IR spectra	<ul style="list-style-type: none"> <li>problems based on IR spectroscopy from previous question papers.</li> </ul>	

Book referred: spectroscopy: P. S. Kalsi

Other activities: Question paper solving.

PP 12  
 Signature of the Lecturer

## DAILY RECORD

Date: 30/01/2018

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
2:15 to 3:00 pm	M.Sc 1st	NMR Spectra	<ul style="list-style-type: none"> <li>- Magnetic &amp; non-magnetic nucleus</li> <li>- Effect of external magnetic field</li> <li>- Phenomenon of Resonance.</li> </ul>	

Book referred spectroscopy: Pavia

Other activities

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Signature of the Lecturer

## DAILY RECORD

Date 01/02/2018

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:50 pm	S.Y. B.Sc	practical	Inorganic qualitative analysis	
2:10 to 3:50 pm	F.Y. B.Sc	P-Block elements	<ul style="list-style-type: none"> <li>* Classification of silicates</li> <li>* Structure of silicates                             <ul style="list-style-type: none"> <li>- single chain silicates</li> <li>- double chain silicates</li> <li>- sheet silicates</li> </ul> </li> <li>IVA group:-                             <ul style="list-style-type: none"> <li>- Electronic config</li> <li>- anomalous behaviour</li> <li>- Trends in properties</li> </ul> </li> </ul>	

Book referred

Inorganic chemistry: J.D. Lee

Other activities

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## DAILY RECORD

Date: 02/02/2018

DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25 PM	F.Y. B.Sc.	P-block element	* oxy acids of phosphorous * VA group - Electronic conf <sup>n</sup> - Anomalous behaviour of O <sub>2</sub> - Trends in the properties	
3:00 to 3:45 PM	S.Y. B.Sc.	Biomolecules	- Macromolecules - Biochemistry - Carbohydrates - Definition - Classification - oxidation by mild oxidising agent & H <sub>2</sub> O	

Book referred: Organic Chemistry: Morrison &amp; Boyd

Other activities: Inorganic Chemistry: J. D. Lee

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Signature of the Lecturer

## DAILY RECORD

Date: 03/02/2018

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40 AM	F.Y. B.Sc.	P-block element	* oxy acids of sulphur * group IIIA - Electronic Conf <sup>n</sup> - Anomalous behaviour of fluorine - Trends in properties - Inter halogen compounds.	
2:15 to 3:00 PM	S.Y. B.Sc.	Bio-molecules	* Oxid <sup>n</sup> of glucose by HIO <sub>4</sub> * Reduction of glucose * Osazone formation * Ester formation.	

Book referred: Concise inorganic chemistry: Morrison &amp; Boyd

Other activities:

PK  
Signature of the Lecturer

Extra lecture  
**DAILY RECORD**

Date: 04/02/2018

DAY: Sunday

Time	Class	Topic	Points covered	Remarks
10:45 to 12:45 pm	F.Y. B.Sc.	p-block elements	<ul style="list-style-type: none"> <li>* Interhalogen compounds</li> <li>- Types</li> <li>- Preparation</li> <li>- Structures of                             <ul style="list-style-type: none"> <li>(i) ClF</li> <li>(ii) ClF<sub>3</sub></li> <li>(iii) IF<sub>5</sub></li> <li>(iv) IF<sub>7</sub></li> </ul> </li> </ul>	
		Ethers	<ul style="list-style-type: none"> <li>* Analysis of alcohols</li> <li>* Ether                             <ul style="list-style-type: none"> <li>- Nomenclature</li> <li>- Preparation</li> <li>- Reactions</li> </ul> </li> </ul>	

Book referred

Inorganic chemistry: J.D. Lee  
 Organic chemistry: Morrison & Boyd

Other activities

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 Signature of the Lecturer

**DAILY RECORD**

Date: 05/02/2018

DAY: Monday

Time	Class	Topic	Points covered	Remarks
12:25 to 3:40pm	F.Y. B.Sc.	Phenols	<ul style="list-style-type: none"> <li>- Definition</li> <li>- Nomenclature</li> <li>- Physical properties                             <ul style="list-style-type: none"> <li>(i) Acidic in nature</li> <li>(ii) Physical constants</li> <li>(iii) solubility</li> </ul> </li> <li>- Preparation                             <ul style="list-style-type: none"> <li>(i) Dow's Process</li> </ul> </li> </ul>	

Book referred

Organic Chemistry: J.D. Lee, Morrison & Boyd

Other activities

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 Signature of the Lecturer

## DAILY RECORD

Date: 06/02/2018

 DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
1:20 to 2:55 PM	F.Y. B.Sc.	Phenols	* Preparation: - From (i) Sodium benzene sulphonate (ii) From cumene (iii) From diazonium salts * Reactions of phenol:- - Nitration with dil./HNO <sub>3</sub> and conc. HNO <sub>3</sub> - Sulphonation Internal examination Chem. paper: II	
2:15 to 3:00 PM	S.Y. B.Sc.	class test		

 Book referred Organic Chemistry: Morrison & Boyd

Other activities

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## DAILY RECORD

Date: 07/02/2018

 DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10 PM	F.Y. B.Sc.	Phenols	* Reactions:- (i) Halogenation	

 Book referred Organic Chemistry - Morrison & Boyd

Other activities

SP US  
Signature of the Lecturer

## DAILY RECORD

Date: 08/02/2018

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55pm	S.Y. B.Sc.	Practical	Inorganic qualitative Analysis	
1:10 to 1:55pm	F.Y. B.Sc.	Amines	- Definition - classification - IUPAC Nomenclature - Physical Properties (i) Physical constants (ii) Solubility (iii) Basicity	

 Book referred Organic Chemistry: Morrison & Boyd

Other activities

Sf Mc  
Signature of the Lecturer

## DAILY RECORD

Date: 09/02/2018

 DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25 pm	F.Y. B.Sc.	Amines	* Salt formation * Preparation of amines from Chlorobenzene, nitrobenzene, oxides, cyanides etc.	
1:10 to 1:55 pm	F.Y. B.Sc.	Test	Internal test exam	
2:15 to 3:00 pm	M.Sc JST	NMR	Types protons and shielding & deshielding	
3:00 to 3:45 pm	S.Y. B.Sc.	Carbo- hydrates	* Killiani-Fischer Synthesis * Ruff degradation	

 Book referred Organic Chemistry: Morrison & Boyd

Other activities

Sf Mc  
Signature of the Lecturer

## DAILY RECORD

Date: 10/02/2018

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	F.Y. B.Sc.	Test	Internal Examination Chemistry paper 2nd	

Book referred —

Other activities —



PP  
Signature of the Lecturer

## DAILY RECORD

Date: 12/02/2018

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	F.Y. B.Sc.	Amine	Reactions of amines - Reaction with nitrous acid (1) Aliphatic 1° amine (2) Aromatic 1° amine (3) Secondary amine (4) Tertiary amine * Importance of diazonium salt.	
2:00 to 3:00 PM	T.Y. B.Sc.	Practical	Internal Practical Examination.	
3:45 to 4:30 PM	S.Y. B.Sc.	Carbo-hydrate	* Ruff degradation cyclic (ring) structure of glucose.	

Book referred —

Organic Chemistry: Morrison & Boyd

Other activities —

PP  
Signature of the Lecturer

Extra Lecture  
**DAILY RECORD**

Date: 13/12/2018

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
9:00 to 12:00pm	F.Y. B.Sc.	amines	<ul style="list-style-type: none"> <li>* Hoffmann elimination</li> <li>* Formation of amides</li> <li>* Ring substitution in aromatic amines</li> <li>* Hinsberg test</li> </ul>	
		Carboxylic acids	<ul style="list-style-type: none"> <li>* Introduction</li> <li>* Classification</li> <li>* Nomenclature</li> <li>* Physical properties</li> <li>* Preparation                             <ul style="list-style-type: none"> <li>- Laboratory method</li> <li>- Industrial method</li> </ul> </li> <li>* Reactions of carboxylic acids</li> <li>* Analysis of carboxylic acids.</li> </ul>	

Book referred Organic Chemistry: Morrison & Boyd

Other activities —

PF-16  
 Signature of the Lecturer

**DAILY RECORD**

Date: 14/12/2018

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10 and 1:10 to 1:55pm	F.Y. B.Sc.	Aldehydes & ketones	<ul style="list-style-type: none"> <li>* Introduction</li> <li>* Nomenclature</li> <li>* Physical properties</li> <li>* Preparation of aldehydes                             <ul style="list-style-type: none"> <li>- ox<sup>n</sup> by PCC of 1° alcohol</li> <li>- Rosenmund Red<sup>n</sup></li> <li>- ox<sup>n</sup> of methyl benzenes</li> <li>- Reimer-Tiemann Red<sup>n</sup></li> </ul> </li> <li>* Preparation of ketones                             <ul style="list-style-type: none"> <li>- From 2° alcohols</li> <li>- By F-cyclization</li> <li>- from nitriles</li> </ul> </li> <li>* Reactions of ald. &amp; ketones                             <ul style="list-style-type: none"> <li>- Add<sup>n</sup> of HCN</li> <li>- Add<sup>n</sup> of ROH</li> <li>- Add<sup>n</sup> of Grignard reagent</li> </ul> </li> </ul>	

Book referred Organic chemistry: Morrison & Boyd

Other activities —

PF-16  
 Signature of the Lecturer



9:00 to 1:00 pm : Stud

## DAILY RECORD

DAY: Thursday

Date: 15/2/2018

Time	Class	Topic	Points covered	Remarks
1:10 to 1:55 pm	F.Y. & B.Sc.	Aldehydes and ketones	* Addition of Grignard reagent * oxidation * Reduction	
3:00 to 3:45 pm	S.Y. & B.Sc.	Carbohydrates	* Mutarotation * Oligosaccharides: - Structures of (i) maltose (ii) sucrose (iii) cellobiose * Polysaccharides: - Structures of (i) amylose & (ii) amylopectin * $\alpha$ -amino acids - Definition - Classification	

Book referred Organic Chemistry: Morrison & Boyd

Other activities

PP  
Signature of the Lecturer

## DAILY RECORD

DAY: Friday

Date: 16/02/2018

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10 & 11:40 to 12:25 pm	F.Y. & B.Sc.	Aldehydes & ketones	(*) Reaction with ammonia derivative * Cannizzaro reaction * Peckin reaction * Aldol condensation reaction	
3:30 to 3:45 pm	S.Y. & B.Sc.	amino acids	* classification of amino acids * Non-protein amino acids * physical properties - zwitter ion - Isoelectric point	

Book referred Organic Chemistry: Morrison & Boyd

Other activities

PP  
2/16/18

PP  
Signature of the Lecturer

# DAILY RECORD

Date: 17/02/2018

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
			Annual Prize distribution function	

Book referred

Other activities

*[Signature]*  
Signature of the Lecturer

# DAILY RECORD

Date: 19/02/2018

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:40 +0 12:40pm	S.Y. B.Sc.	Bio-molecules	<p>Chemical properties of amino acids! -</p> <p>(A) Reactions of carbonyl group</p> <p>(i) Rea<sup>n</sup> with R-OH</p> <p>(ii) Rea<sup>n</sup> with PCl<sub>5</sub></p> <p>(iii) Formation of amide</p> <p>(iv) Decarboxylation</p> <p>(B) Reactions of amino group</p> <p>(i) Rea<sup>n</sup> with HNO<sub>2</sub></p> <p>(ii) Rea<sup>n</sup> with ninhydrin</p> <p>(iii) Rea<sup>n</sup> with 2-fluoro-2,4-dinitro benzene</p> <p>(iv) Rea<sup>n</sup> with dargyl chloride</p> <p>(v) Rea<sup>n</sup> with PhNCS</p>	

Book referred *Organic Chemistry: Morrison & Boyd*

Other activities

*[Signature]*  
Signature of the Lecturer

# DAILY RECORD

Date: 20/02/2018

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
2:15 to 3:00 PM	B.Y. B.Sc.	Biomolecules:-	<ul style="list-style-type: none"> <li>Structure of protein</li> <li>- Primary structure</li> <li>- Secondary structure</li> <li>- Tertiary structure</li> <li>- Quaternary structure</li> <li>* Role of biomes in biochemistry</li> <li>(1) Agriculture</li> <li>(2) Nutrition</li> <li>(3) Health</li> <li>(4) Industry</li> <li>(5) Genetic engineering</li> <li>(6) Population control</li> <li>(7) Environmental balance</li> </ul>	

Book referred: Organic Chemistry: Morrison & Boyd

Other activities

*[Signature]*  
Signature of the Lecturer

# DAILY RECORD

Date: 21/02/2018

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
2:15 to 3:00 PM	M.Sc. Jst	PMR Spectro.	<ul style="list-style-type: none"> <li>* Chemical shift</li> <li>* TMS as an internal standard</li> <li>* <math>\delta</math> scale</li> <li>* Factors affecting chemical shift value</li> <li>(1) Electronegativity</li> <li>(2) Hybridisation</li> </ul>	

Book referred: Spectroscopy: Pavia

Other activities

*[Signature]*  
Signature of the Lecturer

# DAILY RECORD

Date: 22/02/2018

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
3:45 to 4:30	M.Sc. 1st	PMR Spectro	<p>Magnetic Anisotropic Effect in -</p> <ul style="list-style-type: none"> <li>- Alkenes</li> <li>- Aromatics</li> <li>- Aldehydes</li> <li>- Acetylenes etc.</li> </ul>	

Book referred Spectroscopy : Pavia

Other activities

PP-42  
Signature of the Lecturer

# DAILY RECORD

Date: 23/02/2018

DAY: Friday

Time	Class	Topic	Points covered	Remarks
2:15 to 3:00pm	M.Sc. 1st	PMR Spectro	<p>Effect of hydrogen bonding on <math>\delta</math> value</p> <p>* Spin-spin splitting with</p> <p>(i) one neighbouring proton</p> <p>(ii) with two neighbouring protons</p>	

Book referred Spectroscopy : Pavia

Other activities

PP-42  
Signature of the Lecturer

# DAILY RECORD

Date: 24/02/2018

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
8:00 to 3:45pm	M.Sc. Ist	MR spectro.	Coupling with three neighbouring protons - Pascal's triangle - Types of couplings - Coupling constant 'J'	

Book referred Spectroscopy: Pavia

Other activities

*[Signature]*  
23/2/18

*[Signature]*  
Signature of the Lecturer

# DAILY RECORD

Date: 26/02/2018

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:00 to 5:00pm	F.Y. B.Sc.	practical	Practical Examination	

Book referred

Other activities

*[Signature]*  
Signature of the Lecturer

# DAILY RECORD

Date: 27/02/2018

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
3:45 to 4:50pm	M.Sc. Ist	PMK spectro.	Problems based on UV, IR & $^1\text{H}$ NMR spectroscopy	

Book referred Previous question papers

Other activities Question paper solving

SP VK  
Signature of the Lecturer

# DAILY RECORD

Date: 28/02/2018

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
2:15 to 3:00pm and 3:00 to 3:45pm	M.Sc. Ist	spectro	Problems based on combined applications of UV, IR and PMK spectroscopy	

Book referred Previous question papers

Other activities Question paper solving

SP VK  
Signature of the Lecturer

# DAILY RECORD

DAY:

 Monday  
Friday

Date: 05/03/2018

Time	Class	Topic	Points covered	Remarks
2:15 to 3:30pm	M.Sc. 1st	PMR spectro	Problems based on combined applications of PMR, UV & IR Spectroscopy	

Book referred

Previous question papers

Other activities

Question paper solving

  
Signature of the Lecturer

# DAILY RECORD

DAY:

Wednesday

Date: 14/03/2018

 7, 8, 9, 10: Sy.B.Sc.  
Practical  
Exam

Time	Class	Topic	Points covered	Remarks
3:00 to 3:45 pm	M.Sc. 1st	spectro	Problems based on combined applications of PMR, UV and IR Spectroscopy	

Book referred

Previous question papers

Other activities

Question paper solving

  
Signature of the Lecturer

## DAILY RECORD

Date: 15/03/2018

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
2:15 to 3:00 PM	M.Sc. I	Spectro	Problems based on combined application of UV, IR & PMR Spectroscopy.	

Book referred: Previous Question Papers

Other activities: Question Paper Solving

PPK  
Signature of the Lecturer

## DAILY RECORD

Date: 16/03/2018

DAY: Friday

Time	Class	Topic	Points covered	Remarks
2:00 to 3:30	M.Sc. I/II	CMR	Introduction to CMR:- (i) Problems in recording CMR (ii) Physical properties of $^1H$ and $^{13}C$ nucleus (iii) Characteristics of CMR (iv) Problems based on CMR	

Book referred: Spectroscopy: Pavia

Other activities: Question Paper Solving / PPT Lecture

PPK  
Signature of the Lecturer



# DAILY RECORD

Date: 17/03/2018

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
2:30 to 3:30	M.Sc. Jst	Mass spectro	* Introduction of Mass spectrometry * Instrumentation * Fragmentation & McLafferty Rearrangement	



  
Principal  
S.S.G.M. College  
Kopergaon

Book referred

Other activities

Power Point Presentation

  
Signature of the Lecturer

# DAILY RECORD

Date: / / 201

DAY: \_\_\_\_\_

Time	Class	Topic	Points covered	Remarks

Book referred

Other activities

Signature of the Lecturer

“Education through self help is our motto” - Karmaveer



Rayat Shikshan Sanstha's

S. S. G. M. Science, Gautam Arts & Sanjivani  
Commerce College, Kopargaon. Dist. - Ahmednagar

**TEACHER'S DIARY**

( YEAR : 2018 - 2019 )

Name of the Lecturer prof: Yewale J.E.

Subject Physics.

S. S. G. M. Science, Gautam Arts & Sanjivani Commerce College,  
Kopargeon. Dist.- Ahmednagar

**PERSONAL RECORD**

Name in full : prob. Yewale Jalindar Ekmath.

Qualification : M.Sc. M.Phil.

Department : physics Designation : Associate professor.

Date of appointment : 1.10.1986 Present grade : \_\_\_\_\_

Residential address : 'Gangotri', plot no. 77, subhadranagar, Kopargau

Phone number : 

9	2	2	6	1	7	4	1	7	9
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Blood group : 

A+
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Chairman / Member of committees of the college / University

Sr. No.	Name of the Committee	Chairman / Member
1.	Alumni Association	Chairman
2.	Committee for Talent and progressive batches	Chairman.
3.	Karmveer Vidyaprabodhani	member
4.	Magazine - Kalpataru	member
5.		
6.		
7.		
8.		

### Allotment of Work ( I - Term)

Sr. No.	Class	Theory / Practical Paper No.	Title	Work load
1)	S.Y.B.Sc.	PHYSICS PAPER - II	Instrumentation	- 04
2)	S.Y.B.Sc.	physics practical.	practical	- 04
3)	T.Y.B.Sc.	physics paper - IV	Atomic & m.p.	- 04
4)	T.Y.B.Sc.	physics paper - VIII	practical	4x2 = 08
5)	M.Sc.	physics practical	practical	- 05
6)	T.Y.B.Sc.	project	project	04
7)	M.Sc.	project	project	- 04
				<u>33</u>


### Allotment of Work ( II - Term)

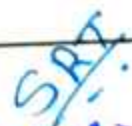
Sr. No.	Class	Theory / Practical Paper No.	Title	Work load
1)	S.Y.B.Sc.	PHYSICS PAPER - II	optics	- 04
2)	S.Y.B.Sc.	physics practical	practical	- 04
3)	T.Y.B.Sc.	physics paper - IV	Nuclear physics	- 04
4)	T.Y.B.Sc.	physics paper - VIII	practical	4x2 = 08
5)	M.Sc.	physics practical	practical	- 05
6)	T.Y.B.Sc.	project	project	- 04
7)	M.Sc.	project	project	- 04
				<u>33</u>

### Monthly Report

Sr. No.	Month	Teachers Signature	Remark	Sign. of Head of the department
1)	JULY-18	<u>YR</u>	Completed	<u>Shk</u>
2)	AUGUST-18	<u>YR</u>	Completed	
3)	SEPTEMBER-18	<u>YR</u>	Completed	
4)	OCTOBER-18	<u>YR</u>	Completed	
5)	NOV-18	<u>YR</u>	Completed	
6)	DEC-18	<u>YR</u>	Completed	
7)	JAN-19	<u>YR</u>	Completed	
8)	FEB-19	<u>YR</u>	Completed	

  
 Vice Principal  
 Signature  
 of the faculty in-charge  
 S.S.G.M. College, Kopergaon

  
 Head  
 Department of  
 S.S.G.M. College, Kopergaon

  
 Principal  
 S.S.G.M. College, Gautam Arts &  
 Sanjivani Commerce College, Kopergaon

Time Table (I-Term)

Sr.No.	Time	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
1.	10:15 to 11:45	M.Sc (E) Pract.	S.Y. (P)	-	T.Y. (T)	T.Y. (T)	-
2.	11:45 to 12:45	M.Sc (E) Pract.	S.Y. (P)	-	-	-	-
3.	12:45 to 1:10	M.Sc (E) Pract.	S.Y. (P)	T.Y. (T)	-	-	-
4.	1:10 to 1:55	M.Sc (E) Pract.	S.Y. (P) T.Y. (T)	-	-	-	-
5.	2:15 to 2:45	S.Y. (T) T.Y. (P)	T.Y. (P)	-	S.Y. (T)	S.Y. (T)	-
6.	3:00 to 3:45	T.Y. (P)	T.Y. (P)	-	-	-	S.Y. (T)
7.	3:45 to 4:30	T.Y. (P)	T.Y. (P)	-	-	-	-
8.	4:30 to 5:15	T.Y. (P)	T.Y. (P)	-	-	-	-
9.							

Time Table (II-Term)

Sr.No.	Time	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
1.	10:55 to 11:40	M.Sc (E) Pract.	T.Y. (T)	-	S.Y. (P)	T.Y. (T)	T.Y. (T)
2.	11:40 to 12:45	M.Sc (E) Pract.	-	-	S.Y. (P)	-	-
3.	12:45 to 1:10	M.Sc (E) Pract.	-	T.Y. (T)	S.Y. (P)	-	-
4.	1:10 to 1:55	M.Sc (E) Pract.	-	-	S.Y. (P)	-	-
5.	2:15 to 3:00	S.Y. (T) T.Y. (P)	T.Y. (P)	-	S.Y. (T)	S.Y. (T)	-
6.	3:00 to 3:45	T.Y. (P)	T.Y. (P)	-	-	-	S.Y. (T)
7.	3:45 to 4:30	T.Y. (P)	T.Y. (P)	-	-	-	-
8.	4:30 to 5:15	T.Y. (P)	T.Y. (P)	-	-	-	-
9.							

Teaching Plan (I/II - Term)

Class S.Y.B.Sc. Subject Physics (Instrum) Paper II Year 2018-19Name of the teacher Yewale Jalindar EknathNo. of working days available 34 No. of periods available 55

		Topics according to University Syllabus
Month July	2018	1) Fundamentals of measurement Aims of measurement, functional elements of typical measurement system, standard measurements, static characteristics, dynamic characteristics, errors in measurements.
Working days	26	
Periods available	17	
Periods required	17	2) Transducers:- measurement of displacement, measurement of force: Load cell, cantilever beam.
Month August	2018	measurement of temp:- scales of temp. methods of temp. measurement: non-electrical, electrical, Thermistor, radiation method.
Working days	34	
Periods available	18	Types of Pyrometers, selective and total.
Periods required	18	3) measurement of pressure and flow:- Unit of pressure, vacuum, absolute gauge
Month September	2018	Elastic transducer: Diaphragm, bellows, Bourdon, LVDT, strain gauge, pressure transducer. Calibration by dead weight tester method.
Working days	23	
Periods available	15	4) signal conditioning and processing:- op-amp and its characteristics, inverter, adder, subtractor, integrator, differentiator, comparator, log. buffer, amplifier, V to I and I to V converter. Problems.
Periods required	15	
Month October	2018	5) Display, Recorders, and Actuators. Types of recorders, Graphic recorders, oscillographic recorders. Problems.
Working days	11	
Periods available	05	
Periods required	05	

Teachers Signature

Date: 18/6/2018

Head,  
Department of physics

## Teaching Plan (I/H - Term)

Class T.Y. B.Sc. Subject Physics (AMP) Paper IV Year 2018-19  
 Name of the teacher Yewale Jalindar Ek Nath  
 No. of working days available 87 No. of periods available 52

		Topics according to University Syllabus
Month	<u>JULY</u>	<u>21/8</u>
Working days	<u>26</u>	<u>1)</u> Atomic structure - Rutherford model of atom, electron orbit, Bohr atom, Energy levels and spectra. Vector atom model. Atomic excitation and atomic spectra. Problems
Periods available	<u>15</u>	<u>2)</u> One and two valence electron systems.
Periods required	<u>15</u>	Pauli Exclusion pr. spin orbit interaction selection rules, spectra of sodium atom. Problems.
Month	<u>AUGUST</u>	<u>21/8</u>
Working days	<u>24</u>	<u>3)</u> Two valence electron systems: spectral terms, terms for equivalent electrons. L-S and J-J coupling. singlet triplet separation Lande interval rule, spectra of helium atom.
Periods available	<u>16</u>	<u>4)</u> Zeeman effect: - Experimental arrangement Normal and anomalous Zeeman effect. Stark effect. Problems.
Periods required	<u>16</u>	
Month	<u>SEPTEMBER</u>	<u>20/8</u>
Working days	<u>23</u>	<u>5)</u> X-Ray spectroscopy: Nature of X-Rays. Discrete and continuous X-ray spectra. Duane and Hunt's rule. X-ray emission spectra. Moseley's law. Auger effect. Problems.
Periods available	<u>14</u>	<u>6)</u> Molecular spectroscopy: Rotational energy levels vibrational energy levels. rotational and vibrational spectra. Electronic spectra of molecules. Problems.
Periods required	<u>14</u>	
Month	<u>OCTOBER</u>	<u>20/8</u>
Working days	<u>11</u>	<u>7)</u> Raman spectroscopy: Classical theory of Raman effect. Quantum theory of Raman effect. Experimental setup for Raman effect. Applications of Raman spectroscopy.
Periods available	<u>07</u>	
Periods required	<u>07</u>	

## Teaching Plan (A/II - Term)

Class T.Y. B.Sc. Subject PHYSICS Paper IV Year 2018-19  
 Name of the teacher Yewale Jalindar Ek Nath  
 No. of working days available 86 No. of periods available 53

		Topics according to University Syllabus
Month	<u>NOV-2018</u>	<u>8)</u> Basic properties of nucleus: Composition, charge, size, density, nuclear angular momentum, magnetic dipole moment, electric quadrupole moment, parity and symmetry, mass defect and binding energy, packing fraction, stability of nucleus (M.V.Z)
Working days	<u>11</u>	
Periods available	<u>07</u>	
Periods required	<u>07</u>	
Month	<u>DEC-2018</u>	<u>9)</u> Radioactivity: Radioactivity disintegration, properties of $\alpha, \beta, \gamma$ rays of radioactive decay, half life, mean life, activity, successive disintegration, radioisotopes applications of radioactivity.
Working days	<u>25</u>	
Periods available	<u>16</u>	
Periods required	<u>16</u>	<u>10)</u> Nuclear forces, meson theory of nuclear forces, $\mu$ mp. of nuclear forces
Month	<u>JAN-2019</u>	<u>11)</u> Prop. of deuteron system, elementary particles, quarks model of elementary particles. Problems
Working days	<u>26</u>	<u>12)</u> Particle accelerators and detectors: Linear, (electron/proton linac) cyclic (cyclotron), $\beta$ m. counter. NaI(Tl) scintillation counter.
Periods available	<u>18</u>	<u>13)</u> Nuclear reactions: $\beta$ production, compound nucleus, Q-value eq <sup>n</sup> threshold energy.
Periods required	<u>18</u>	
Month	<u>FEB 2019</u>	<u>14)</u> Conservation laws, Nuclear cross-sections. Nuclear energy: Nuclear fission chain reaction and critical mass, nuclear reactor, Homogeneous & heterogeneous reactors, power reactor, fast breeders, nuclear fusion, stellar energy, problems.
Working days	<u>24</u>	
Periods available	<u>12</u>	
Periods required	<u>12</u>	

Teachers Signature  
 Date 16/6/2018

Head,  
 Department of Physics

Teachers Signature  
 Date 21/11/2018

Head,  
 Department of Physics

## Teaching Plan (I/II - Term)

Class S.Y.B.Sc. Subject physics Paper II Year 2018-19

Name of the teacher Yewale Jalindar Eknath.

No. of working days available 75 No. of periods available 44

		Topics according to University Syllabus
Month	<u>Dec-2018</u>	<u>Geometrical optics: Geometrical optics lenses</u> Sign convention, Thin lenses lens equation Lens maker equation, deviation by thin lens, Equivalent focal length of two thin lenses Cardinal points: Problems. <u>Lens Aberrations: Types of aberration.</u> monochromatic and chromatic aberrations.
Working days	<u>25</u>	
Periods available	<u>12</u>	
Periods required	<u>12</u>	
Month	<u>Jan. 2019</u>	<u>Achromatism: lenses in contact and separated by a finite distance. problems.</u> <u>optical instruments: simple microscope</u> compound microscope, Ramsden's and Huygens eyepiece. problems. <u>Interference and diffraction: - Stokes treatment</u>
Working days	<u>26</u>	
Periods available	<u>16</u>	
Periods required	<u>16</u>	
Month	<u>Feb-2019</u>	<u>Interference by parallel sided thin films.</u> Interference due to wedge shaped thin films Fraunhofer's diffractions at a double slit. plane diffraction grating. Newton's rings. Rayleigh criterion for resolution. problems. <u>Polarization: Introduction, Brewster's law,</u> Law of Malus, polarization by double refraction. Nicol Prism. problems.
Working days	<u>21</u>	
Periods available	<u>16</u>	
Periods required	<u>16</u>	
Month	<u>Feb-2019</u>	
Working days	<u>-</u>	
Periods available	<u>-</u>	
Periods required	<u>-</u>	

YJ  
Teachers Signature

Date: 21/1/2018.

J.L.L.  
Head,  
Department of Physics

## DAILY RECORD

Date: 2/7/2018

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
2:15 to 3:00	S.T. G-Jc.	Fundamentals of measurement.	<ul style="list-style-type: none"> <li>* fundamentals of measurements.</li> <li>* Introduction.</li> <li>* Aims of measurement</li> <li>* Functional Elements of typical measurement system.</li> <li>* Basic functional Elements</li> <li>* Auxiliary elements.</li> </ul>	

Book referred

\* A Course in Electrical and Electronics Instrumentation (19th edition, etc) - A.K. Sawhney

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 5/7/2018

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
2:15 to 3:00	S.T. G-sc.	Fundamentals of measurement.	<ul style="list-style-type: none"> <li>Functional Elements of typical measurement system.</li> <li>* Block diagram</li> <li>* Transducer element</li> <li>* characteristics of transducer element</li> <li>* Signal conditioning element</li> <li>* data presentation element.</li> </ul>	

Book referred

Instrumentation - A.K. Sawhney

Other activities



Signature of the Lecturer



# DAILY RECORD

Date: 6/7/2018

DAY: Friday

Time	Class	Topic	Points covered	Remarks
2:15 to 3:00	S.T. B-ec.	Fundamentals of measurements	<ul style="list-style-type: none"><li>① Standard measurements and types of calibration methods.</li><li>② Introduction</li><li>③ International standards - kg - meter - second.</li><li>④ Primary standards</li><li>⑤ Secondary standards</li><li>⑥ Working standards.</li></ul>	

Book referred

Instrumentation - A.K. Sawhney

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 7/7/2018

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
3:00 to 3:45	S.T. B-ec.	Fundamentals of measurements	<ul style="list-style-type: none"><li>- Calibration -</li><li>① Primary calibration</li><li>② Secondary calibration</li><li>③ Direct calibration with known input sources.</li><li>④ Indirect calibration</li><li>⑤ Routine calibration.</li></ul>	

Book referred

Instrumentation - A.K. Sawhney

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 9/7/2019

DAY: Monday

Time	Class	Topic	Points covered	Remarks
2:15 to 3:00	S.T. B.Sc.	fundamentals of measurements	<ul style="list-style-type: none"> <li>• Static characteristics.</li> <li>① Accuracy.                             <ul style="list-style-type: none"> <li>Def<sup>n</sup>.</li> <li><math>\%T.V. = \frac{M.V. - T.V.}{T.V.} \times 100</math></li> <li><math>\%F.S.D. = \frac{M.V. - T.V.}{F.S.D.} \times 100</math></li> </ul> </li> <li>② Precision.                             <ul style="list-style-type: none"> <li>Def<sup>n</sup>, example</li> </ul> </li> <li>③ Difference bet<sup>n</sup> Accuracy and precision.</li> </ul>	

Book referred

Instrumentation - A.K. Sawhney

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 13/7/2019

DAY: Friday

Time	Class	Topic	Points covered	Remarks
2:45 to 3:00	S.T. B.Sc.	Fundamentals of measurement	<ul style="list-style-type: none"> <li>② Sensitivity.                             <ul style="list-style-type: none"> <li><math>K = \frac{\Delta E_o}{\Delta E_i}</math></li> <li>- linear and non-linear graphs.</li> </ul> </li> <li>③ linearity.                             <ul style="list-style-type: none"> <li>Def<sup>n</sup>.</li> <li>- independent of i/p.</li> <li>- dependence of i/p.</li> <li>- combined independent and proportional to the input.</li> </ul> </li> </ul>	

Book referred

Instrumentation - A.K. Sawhney

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 14/7/2018

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
8:00 to 9:25	S.Y. B-sc.	Fundamentals of measurement	ⓐ Repeatability - definition. • Reliability - def <sup>n</sup> ⓑ Drift - zero drift - sensitivity drift - Transfer characteristics of the instrument. ⓒ Hysteresis: Def <sup>n</sup> , Cause, Hysteresis error plot.	

Book referred Instrumentation — A.K. Sawhney

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 16/7/2018

DAY: Monday

Time	Class	Topic	Points covered	Remarks
2:15 to 3:00	S.Y. B-sc.	Fundamentals of measurement	ⓐ Dead zone - definition. • Dead zone due to hysteresis. ⓑ Resolution ⓒ Dynamic characteristics - Introduction. - First order system $\frac{k}{1+T D} = \frac{E_o(s)}{E_i(s)}$ ⓓ Second order system $\frac{k}{aD^2 + bD + c} = \frac{E_o(s)}{E_i(s)}$	

Book referred Instrumentation — A.K. Sawhney

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 12/2/2018

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
1:10 to 1:55	T.Y. B.Sc.	Fundam Atomic Structure	<ul style="list-style-type: none"> <li>- Atomic structure.</li> <li>- Introduction.</li> <li>- Atomic radius <math>\rightarrow 10^{-10}</math> m</li> <li>- Nuclear radius <math>\rightarrow 10^{-14}</math> to <math>10^{-15}</math> m.</li> <li>- Electron discovery - J.J. Thomson. -1897</li> <li>- Thomson's atomic model (1898) (Plum-pudding model).</li> <li>- Rutherford's model of an atom.</li> <li>- Rutherford's scattering experiment.</li> </ul>	

Book referred

concept of modern physics - 4th edition  
Arthur-Baisez

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 12/2/2018

DAY: wed.

Time	Class	Topic	Points covered	Remarks
12:45 to 1:10	T.Y. B.Sc.	Atomic Structure	<ul style="list-style-type: none"> <li>- Rutherford scattering experiment.</li> <li>- Ppt. of Rutherford's <math>\alpha</math> (alpha) particle scattering experiment. (video).</li> </ul> $N(\theta) = \frac{N_0 n^2 Z^2 e^4}{(8\pi \epsilon_0)^2 K^2 (K-E)^2 \sin^4(\theta/2)}$ $N(\theta) \propto \frac{1}{\sin^4(\theta/2)}$	

Book referred

Introduction to Atomic Spectra -  
White H.E.

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 19/7/2018

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y. to B.Sc.	Atomic structure	- calculation of the distance of closest approach $R$ for an $\alpha$ particle. $kE(\text{initial}) = P.E = \frac{1}{4\pi\epsilon_0} \frac{Ze^2}{R}$ $R = \frac{9 \times 10^9 (1.6 \times 10^{-19})^2 \times 2}{1.0 \times 10^{12}}$ $R = 3.8 \times 10^{-14} \text{ metres}$ $R(\text{Au}) = 3 \times 10^{-14} \text{ m.}$	
2:15 to 3:00	S.Y. to B.Sc.	Fundamentals of measurement	Examples of first order system. 1) Resistance transducer	
			$(1 + \tau D) V_2 = V_1$ $\tau = R_1 C$	

Book referred: modern physics - J.B. Ajiyam  
Instrumentation - A.K. Sawhney

Other activities

Signature of the Lecturer

# DAILY RECORD

Date: 20/7/2018

DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y. to B.Sc.	Atomic structure	electron orbit Centripetal force $F_c = \frac{mv^2}{r}$ electric force $F_e = \frac{1}{4\pi\epsilon_0} \frac{e^2}{r^2}$ $v = \frac{e}{\sqrt{4\pi\epsilon_0 m e}}$ $kE = \frac{1}{2} mv^2 = P.E = -\frac{e^2}{4\pi\epsilon_0 r}$ $E = \frac{mv^2}{2} = \frac{e^2}{4\pi\epsilon_0 r}$ $E = -\frac{e^2}{8\pi\epsilon_0 r}$	
2:15 to 3:00	S.Y. to B.Sc.	Fundamentals of measurement	Thermal element $\tau DT_2 + T_2 = T_1(t)$ $\tau = \frac{mC}{hA}$ and $D = \frac{d}{dt}$ Diagram and derivation for $T_1(t) = T_2 + \tau DT_2$	

Book referred: fundamentals of molecular spectroscopy - C.N. Banwell  
E.M. McCash  
Instrumentation - A.K. Sawhney

Other activities

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## DAILY RECORD

Date: 23/7/2018

DAY: Monday

Time	Class	Topic	Points covered	Remarks
2:15 to 3:00	S.T. G.Sc.	Fundamentals of measurement	• Examples of second order 1) U-Tube manometer Diagram and derivation for. $\rho L \frac{dh}{dt} + \frac{\rho g L}{2} \frac{dh}{dt} + \rho g h = P$ 2) Seismic motion Transducer. • Figure of seismic motion transducer • Derivation for $(mD^2 + dD + s)z = -mD^2p$	

Book referred Instrumentation — A.K. Sawhney.

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 24/7/2018

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
1:10 to 1:55	T.T. G.Sc.	Atomic Structure	Bohr's Atom. • Bohr's circular orbit. • Bohr's first postulate $F_c = \frac{1}{4\pi\epsilon_0} \frac{ze^2}{r^2}$ $F_c = mrv^2$ $\frac{mrv^2}{r} = \frac{1}{4\pi\epsilon_0} \frac{ze^2}{r^2}$ $v^2 = \frac{1}{4\pi\epsilon_0} \frac{ze^2}{mr}$ • Bohr's second postulate $L = n(h/2\pi)$ $mvr = n(h/2\pi)$ • Bohr's third postulate $h\nu = E_2 - E_1$ $E_n = -\frac{6.62 \times 10^{-34}}{2} \frac{ze^2}{4\pi\epsilon_0 h^2} \frac{1}{n^2}$ $V_n = \frac{e^2}{2\epsilon_0 n h}$	

Book referred Concept of modern physics — A. G. Basu.

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 25/7/2018

DAY: wed

Time	Class	Topic	Points covered	Remarks
12:15 to 1:10	T.Y. B.Sc.	Atomic structure	- Energy levels and spectra - $T = \frac{1}{2} m v_n^2$ $T = \frac{m e^4}{8 \epsilon_0^2 n^2 h^2}$ $U = -\int F \cdot dr = -\frac{z e^2}{4 \pi \epsilon_0 r}$ $U = -\frac{m e^4}{4 \epsilon_0^2 n^2 h^2}$ $E_n = -\frac{m e^4}{8 \epsilon_0^2 n^2 h^2}$ $E_n \propto 1/n^2$ $E_n = -13.6 \text{ eV}$ $E_n = \frac{-13.6 \text{ eV}}{n^2}$	

Book referred

Concept of modern physics - A. Baisak

Other activities

Signature of the Lecturer

# DAILY RECORD

Date: 26/7/2018

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y. B.Sc.	Atomic spectra	- origin of line spectra - $\bar{\nu} = R \left[ \frac{1}{m^2} - \frac{1}{n^2} \right]$ $R = \frac{m e^4}{8 \epsilon_0^2 h^3} = 1.097 \times 10^7 \text{ m}^{-1}$ R - Rydberg's constant. * Hydrogen spectrum. - series of spectral lines	
2:15 to 3:00	T.Y. B.Sc.	Fundamentals of measurement	- Errors in measurement 1) systematic errors 2) random errors 3) Instrument error 4) procedural error 5) Problem solving.	

Book referred

Concept of modern physics - A. Baisak  
 Instrumentation - A.K. Sawhney

Other activities

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# DAILY RECORD

Date: 15/7/2018

DAY: Sat

Time	Class	Topic	Points covered	Remarks
8:00 to 8:45	S.T. B.Sc.	Transducers	<p><u>Transducers</u></p> <ul style="list-style-type: none"> <li>Introduction</li> <li>Defn of transducer.</li> <li>Measurement of Displacement</li> <li>Major transduction ppt.</li> <li>Variable resistance devices.</li> <li>Linear potentiometer</li> <li>Rotary potentiometer</li> <li>Winding core</li> <li>Winding wire</li> <li>Wiper</li> </ul>	

Book referred

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 30/7/2018

DAY: Monday

Time	Class	Topic	Points covered	Remarks
2:15 to 3:00	S.T. B.Sc.	Transducers	<ul style="list-style-type: none"> <li>Properties of potentiometric displacement transducers</li> <li>Advantage of displacement transducer using potentiometer as a sensing element.</li> <li>Disadvantage.</li> <li>Variable inductance transducers</li> <li>Number of turns</li> <li>Geometric configuration</li> <li>Permeability of the magnetic material.</li> </ul>	

Book referred

Instrumentation Devices and System - Rangan, Sharma, Mani.

Other activities

  
Signature of the Lecturer



# DAILY RECORD

Date: 31/7/2018

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
1:10 to 1:55	T.Y. B.Sc.	Atomic structure	- Hydrogen spectrum - series of spectral lines 1) Lyman series $m=1, n=2,3,4,5$ - (UV region) 2) Balmer series $m=2, n=3,4,5, \dots$ - visible region. 3) Paschen series $m=3, n=4,5,6, \dots$ - near-infrared ✓ 4) Brackett series $m=4, n=5,6,7, \dots$ - infrared region 5) Pfund series $m=5, n=6,7,8, \dots$ - far infrared region.	
2:15 to 5:15	T.Y. B.Sc.	practical	→ Explanation and demonstration of experiments.	

concept of modern physics.

Book referred

Other activities

Head

Department of Physics  
S.S.G.M. College, Kopergaon  
Dist. A/Nagar (M.S.) 423601

Signature of the Lecturer

# DAILY RECORD

Date: 1/8/2018

DAY: wed.

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10	T.Y. B.Sc.	Atomic structure	- Limitations of Bohr Theory ① Energy levels and series transitions of hydrogen - ② Bohr-Sommerfeld's theory for hydrogen like atom. - Sommerfeld's elliptical orbit - $\oint p_{\phi} d\phi = 2\pi h$ $\oint p_{\theta} d\theta = k h$ $n = 2+k$ $l = 0, 1, 2, 3, \dots$ $k = 1, 2, 3, \dots$ $n = l \pm 1, 3 -$	
			Examples:	

concept of modern physics - A. G. Balser

Book referred

Other activities

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# DAILY RECORD

Date: 2/8/2018

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y. B.Sc.	Atomic structure	<p>- reverts Atom model:</p> <p>① The concept of space quantization.</p> <p>② The concept of spinning electron.</p> <p>space-quantization. — — means electron orbits are quantized in space or, quantization of direction of <math>\vec{L}</math> w.r.t. the <math>H</math>.</p>	
2:15 to 3:00	S.Y. B.Sc.	Transducers	<p>① Change in self inductance with number of turns.</p> <p>② Change in self inductance with change in self permeability.</p> <p>③ variable reluctance type transducer.</p> <p><math>L \propto \frac{1}{R_g}</math></p>	

Book referred

Instrumentation: - A.K. Sawhney  
Concept of modern physics - A. Baisel

Other activities

Pol  
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# DAILY RECORD

Date: 3/8/2018

DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y. B.Sc.	Atomic structure	<p>— <math>n = 1, 2, 3 \dots \infty</math></p> <p><math>l = 0, 1, 2 \dots n-1</math></p> <p><math>m_l = -l \dots 0 \dots l</math></p> <p><math>\vec{L} = \sqrt{l(l+1)} \frac{h}{2\pi}</math></p> <p><math>L_z = m_l \left( \frac{h}{2\pi} \right)</math></p> <p>Space quantization of orbital angular momentum for <math>l=2</math> and <math>l=3</math>.</p>	
2:15 to 3:00	S.Y. B.Sc.	Transducers	<p>— variable capacitance transducer.</p> <p><math>C = \frac{\epsilon A}{d}</math></p> <p><math>\Delta C/C = -\Delta d/d</math></p> <p><math>\Delta C/C = \Delta A/A</math></p> <p><math>\Delta C/C = \Delta K/K</math></p> <p>Problem.</p>	

Book referred

Concept of modern physics: - A. Baisel.  
Instrumentation - A.K. Sawhney.

Other activities

Pol  
Signature of the Lecturer

## DAILY RECORD

Date: 4/5/2018

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
9:00 to 3:45	S.Y. B.Sc.	Transducers.	Piezoelectric Transducers - piezoelectric effect - ultra sonic - figure and working of piezoelectric transducers $Q = kb$ $V = kb/c$ $= kb_x / C_0 C_r A$ - Inverse piezoelectric effect - Applications: - piezoelectric disc used as a guitar pick up.	

Book referred Instrumentation: - A.K. Sawhney.  
Instrumentation: Rangon, Sharma, mani

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 6/5/2018

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:50 to 1:55	M.Sc. I	practical	- Explanation and demonstration of experiments	
2:15 to 3:00	S.Y. B.Sc.	Transducers	Load cell. figure, working of load cell. Properties of material for load cell. * <del>strain</del> column-type devices. column type load cell. $E_1 = E_3 = F/AE$ $E_2 = E_4 = -\nu \frac{F}{AE}$ four-arm active wheatstone bridge.	
2:15 to 5:15	S.Y. B.Sc.	practical	- Explanation and demonstration of <del>the</del> experiments	

Book referred Concept of modern physics - A. Banerjee.  
Instrumentation - A.K. Sawhney.

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 7 / 8 / 2018

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
1:10 to 1:55	T.Y. B.Sc.	Atomic structure	-- Electron spin $\vec{S} = \sqrt{s(s+1)} \frac{h}{2\pi}$ $s$ - spin quantum no. $s = 1/2$ . Spin magnetic q.n. - $M_s$ $m_s = \frac{1}{2}$ spin up state $m_s = -\frac{1}{2}$ spin down state. (1) Quantum numbers associated with vector Atom model. (2) Principal quantum number ( $n$ ) $L_m = \frac{nh}{2\pi} \sqrt{l(l+1)}$ $E_n = - (me^4 / 8 \epsilon_0^2 nh^2)$	
2:15 to 5:15	T.Y. B.Sc.	practical	- Explanation and demonstration of experiments	

Book referred

concept of modern physics - A. Baisel

Other activities

Baisel  
Signature of the Lecturer

# DAILY RECORD

Date: 8 / 8 / 2018

DAY: wed.

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10	T.Y. B.Sc.	Atomic structure	(1) orbital quantum no. ( $l$ ) $L = m(\sqrt{l(l+1)})$ $L = nh/2\pi$ $L = \sqrt{l(l+1)} \frac{h}{2\pi}$ $l = 0, 1, 2, 3, \dots$ subshells, s, p, d, f. (2) Orbital magnetic quantum number ( $m_l$ ) $m_l = -l, -(l-1), \dots, 0, \dots, (l-1), l$ $L_z = m_l \frac{h}{2\pi}$ $\cos \theta = \frac{L_z}{L} = \frac{m_l}{\sqrt{l(l+1)}}$ (3) Spin magnetic quantum number ( $m_s$ ) $\vec{S} = \sqrt{s(s+1)} \frac{h}{2\pi}$ , $S_z = m_s \frac{h}{2\pi}$ $m_s = \pm 1/2, m_s = -1/2$ .	

Book referred

Concept of modern physics - A. Baisel

Other activities

Baisel  
Signature of the Lecturer

# DAILY RECORD

Date: 9/8/2018

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y. B.Sc.	Atomic Structure	<ul style="list-style-type: none"> <li>- Atomic Excitation and Atomic spectra.</li> <li>- Excitation by collision.</li> <li>- ppl. of neon and Hg. lamp.</li> <li>- Origin of emission and absorption spectra lines.</li> <li>- figures for emission and absorption spectra.</li> </ul>	
2:15 to 3:00	S.Y. B.Sc.	Transducers	<ul style="list-style-type: none"> <li>- cantilever beam figure, working</li> <li><math>\delta = \text{deflection} = \frac{WFL^3}{Ebt^3}</math></li> <li><math>\epsilon = \text{strain} = \frac{6FL}{Ebt^2}</math></li> </ul>	

Book referred: Concept of modern physics - A. Gaiser  
Instrumentation - A.K. Sawhney

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 10/8/2018

DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y. B.Sc.	Atomic Structure	<ul style="list-style-type: none"> <li>- Franck and Hertz Experiment.</li> <li>- Apparatus for Franck and Hertz experiment.</li> <li>- working</li> <li>- Plot plate current against accelerating potential.</li> <li>for Hg. <math>E = h\nu = \frac{hc}{\lambda}</math> <math>= \frac{6.63 \times 10^{-34} \times 3 \times 10^8}{2.536 \times 10^{-8}} = 4.0 \text{ eV}</math></li> </ul>	
2:15 to 3:00	S.Y. B.Sc.	Transducers	<ul style="list-style-type: none"> <li>- measurement of temp.</li> <li>- scales of temp.</li> <li>- Kelvin, Celsius, Fahrenheit</li> <li>- conversion table of scale of temperature.</li> <li>- methods of temp. measurement.</li> </ul>	

Book referred: Concept of modern physics - A. Gaiser  
Instrumentation - A.K. Sawhney

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 11/9/2018


DAY: Saturday

Time	Class	Topic	Points covered	Remarks
8:00 to 8:45	S.Y. B.Sc.	Trained users	- methods of Temp. measurement (a) Non-electrical method 1) liquid filled thermometer 2) Bimetallic thermometer figures, working • Application: clocks, thermostats, thermometers, electrical devices (b) - Electrical method (c) Resistance thermometers, (resistance temp. detectors) RTDs	

Book referred

Instrumentation - A.K. Sawhney

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 13/8/2018

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	M.Sc. (E)	Practical	- Explanation and demonstration of experiments	
2:15 to 3:00	S.Y. B.Sc.	Tdms duceel	- <u>Platinum resistance Thermometer</u> • Comparison of resistivity of the five metals. • Callendar's four wire lead arrangement in platinum resistance thermometer • Application • Advantages and limitations <u>Limitations</u> : stability, time response, hysteresis, lead wire insulation	
2:15 to 5:15	T.Y. B.Sc.	practical	• Resistance Explanation and demonstration of experiments	

Book referred

Other activities

  
 Signature of the Lecturer

# DAILY RECORD

Date: 14/8/2018

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	S.T.	Practical	- Explanation and demonstration of experiments	
1:10 to 1:55	T.T.	one valence Electron Systems	- one valence electron systems - • Introduction. • Pauli's Exclusion principle statement. • The total no. of states for the given (n) $N = \sum_{l=0}^{n-1} 2(2l+1)$ $= 2[1+3+5+\dots+(2n-1)]$ $= 2 \left[ n \left\{ \frac{1+(2n-1)}{2} \right\} \right]$ $N = 2n^2$	
2:15 to 5:15	T.T.	Practical	- Explanation and demonstration of experiments	

Book referred: Concept of modern physics - A. Gaiser

Other activities

  
 Signature of the Lecturer

# DAILY RECORD

Date: 16/8/2018

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.T. B.Sc.	one valence Electron Systems	- Electronic configuration. 1s state $n=1, l=0$ 2s state $n=2, l=0$ 2p state $n=2, l=1$ 3s state $n=3, l=0$ H $\rightarrow 1s^1$ Be $\rightarrow 1s^2, 2s^2$ B $\rightarrow 1s^2, 2s^2, 2p^1$ C $\rightarrow 1s^2, 2s^2, 2p^2$ N $\rightarrow 1s^2, 2s^2, 2p^3$	
2:15 to 3:00	S.T. B.Sc.	Transducers	- Use of Thermistors PTC and NTC characteristics principle. Types of thermistors. PTC = $\Delta R = K\Delta T$ NTC = $R = R_0 e^{-\beta/T}$	

 Book referred: Concept of modern physics - A. Gaiser  
 Instrumentation - A.K. Sawhney.

Other activities

  
 Signature of the Lecturer

# DAILY RECORD

Date: 17/8/2018

DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y. B.Sc.	one valence Electron systems	- The quantum state of an electron. - Spectral Notations of quantum state: $\bar{J} = \bar{I} + \bar{J}$ $J = \sqrt{J(J+1)} \quad h/2\pi$ $J = (L+1/2), (L+3/2) \dots (L+1/2),  L-1/2 $ e.g. $L=3, J=3/2 \quad j = \frac{3}{2}, \frac{5}{2}, \frac{7}{2}, \frac{9}{2}$	
2:15 to 3:00	S.Y. B.Sc.	Trans ductors	- Thermistor characteristics $R = R_0 e^{\beta \left( \frac{1}{T} - \frac{1}{T_0} \right)}$ $a = \frac{dR/dT}{R} = -\beta/T^2$ $\beta = \frac{\log R - \log R_0}{\frac{1}{T} - \frac{1}{T_0}}$ $d = -\beta/T^2$	

Book referred

 Concept of modern physics - A. B. Aisak  
 Instrumentation - A. K. Sawhney.

Other activities

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# DAILY RECORD

Date: 18/8/2018

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
8:00 to 9:45	S.Y. B.Sc.	Trans ducers	- Thermistor applications 2) Radiation method (Pyrometry) - Pyrometry - principle of operation. - Stefan's law $J^* = \epsilon \sigma T^4$ $J^*$ - irradiance $\epsilon$ - Stefan-Boltzmann constant $\epsilon$ - emissivity. - Radiation pyrometer 1) Total radiation pyrometer 2) selective radiation pyrometer.	

Book referred

Instrumentation - A. K. Sawhney.

Other activities

USA  
Signature of the Lecturer



## DAILY RECORD

Date: 19/8/2015

Extra:

DAY: Sunday

Time	Class	Topic	Points covered	Remarks
8:00 am to 5:00 pm	Science 1996 Baku		Alumni meet.	

Book referred

Other activities

BSL  
Signature of the Lecturer

## DAILY RECORD

Date: 20/8/2015

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	M.Sc.E	practical	- Explanation and demonstration of experiment	
2:15 to 3:00	S.Y. B.Sc.	Trans Ucell	- selective radiation pyrometer. figure, working, Advantages, $W = \frac{C_1 \lambda^{-5}}{e^{C_2/\lambda T} - 1}$	
			<u>Optical pyrometer</u> figure, working and applications of an optical pyrometer.	
2:15 to 5:15	T.Y. B.Sc.	practical	- Explanation and demonstration of experiment	

Book referred

Instrumentation: A.K. Sawhney.

Other activities

BSL  
Signature of the Lecturer

# DAILY RECORD

Date: 21/8/2018


DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	S.Y. B.Sc.	Practical	1. Explanation and demonstration of experiments	
1:10 to 1:55	T.Y. B.Sc.	one valence electron systems	- Spectra of single Valence Electron Systems - • <u>Spin-orbit interaction</u>  $I = \frac{e}{T}$ $I = \frac{eV}{2\pi E}$ $\mu_L = IA = \frac{eV}{2\pi E} \times \pi R^2$ $\mu_L = \frac{e}{2m} mV R$ $\mu_L = \frac{e}{2m} P_L$	
2:15 to 5:15	T.Y. B.Sc.	Practical	- Explanation and demonstration of experiment	

Book referred

Concept of modern physics - A. Baisie

Other activities


  
Signature of the Lecturer

# DAILY RECORD

Date: 23/8/2018


DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y. B.Sc.	one valence electron systems	$\frac{\mu_L}{P_L} = \frac{e}{2\pi m c}, P_L = \frac{e h}{2\pi}$ $\mu_L = \frac{e h}{4\pi m c}$ $\frac{e h}{4\pi m c} = \text{Bohr magneton}$ $= 9.27 \times 10^{-24} \text{ erg-oersted}^{-1}$ $= 9.27 \times 10^{-24} \text{ Joule-Tesla}^{-1}$ $1 \text{ Tesla} = 10^4 \text{ Gauss}$ $1 \text{ weber} = 10^8 \text{ Maxwell}$ $1 \text{ Oersted} = 1 \text{ Gauss}$	
2:15 to 3:00	S.Y. B.Sc.	Transducers	Total radiation pyrometer figure, working and applications of total radiation pyrometer Problem Solving.	

Book referred

 Electrodynamics - G. B. Bhatia  
 Instrumentation - A. K. Sawhney

Other activities


  
Signature of the Lecturer

## DAILY RECORD

Date: 24/4/2018

 DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y. B.Sc.	one valve Electricity Systems	$H = \frac{E + V}{C}$ $H = \frac{1}{2} h \cdot \frac{2e}{2\pi m c^2} \cdot \frac{1}{23}$ $W_e = H \cdot \frac{h e}{P_e}$ $W_e = H \cdot \frac{e}{2\pi m c}$ $W_e = H \cdot 2 \frac{e}{2\pi m c}$	
2:15 to 3:20	S.Y. B.Sc.	measurement of pressure and flow	- measurement of pressure and flow - - Introduction - measurement of pressure - unit of pressure - Deb <sup>n</sup> - different units - SI unit - @ Atm. unit - manometric unit - Non-SI-unit	

Book referred: concept of modern physics - A. Baisez  
Instrumentation - A.K. Sawhney

Other activities

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## DAILY RECORD

Date: 25/8/2018

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
8:40 to 3:45	S.Y. B.Sc.	measurement of pressure and flow	<u>concept of vacuum</u> Deb <sup>n</sup> of Vacuum - - vacuum gauges - pressure scales - Absolute pressure ( $P_{abs}$ ) - Gauge pressure ( $P_{gk}$ ) - differential pressure - Atmospheric pressure - relation between pressure scales	

Book referred: Instrumentation - A.K. Sawhney

Other activities

USC  
Signature of the Lecturer

## DAILY RECORD

Date: 27 / 4 / 2018

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	M.Sc. (I)	Practical	- Explanation and demonstration of experiment	
2:15 to 3:00	B.Sc.	Measurement of pressure	Elastic Transducers - Diaphragm. - metal used for elastic diaphragm - Beryllium-copper, phosphor bronze, Inconel, stainless-steel, titanium, etc. - Types of diaphragm - flat diaphragm $\frac{Pr^2}{Et^3} = 5.86 \frac{y_0}{t} + 9.58 \left(\frac{y_0}{t}\right)^3$	
2:15 to 5:15	T.Y. B.Sc.	Practical	Explanation and demonstration of experiment	

Book referred: Instrumentation - A.K. Sawhney

Other activities

BSL  
Signature of the Lecturer

## DAILY RECORD

Date: 28 / 4 / 2018

 DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	S.Y. B.Sc.	Practical	Explanation and demonstration of experiment one - $\omega = \frac{1}{2} \sqrt{\frac{k}{m} \frac{ze^2}{m^2 c^3}} \cdot \frac{1}{2}$	
1:10 to 1:55	T.Y. B.Sc.	Valence Electron System	$\Delta W_{ls} = \frac{ze^2}{2m^2 c^3} \frac{k^2}{4\pi^2} \cdot \frac{1}{2} \int \sin^2(\theta) \sin^2(\theta) d\theta$ $\langle \frac{1}{r^3} \rangle = \frac{z^3}{a_1^3 n^3 (1 + \frac{1}{2}) (1 + \frac{1}{2})}$ $\Delta W_{ls} = \frac{ze^2}{2m^2 c^3} \frac{k^2}{4\pi^2} \frac{z^3}{a_1^3 n^3 (1 + \frac{1}{2}) (1 + \frac{1}{2})} \int \sin^2(\theta) d\theta$ $a_1 = \frac{\hbar^2}{4\pi^2 m e^2}$ precession of $l^*$ and $s^*$ around $J^*$	
2:15 to 5:15	T.Y. B.Sc.	Practical	Explanation and demonstration of experiment	

Book referred: Concept of modern physics - A. Gaiser

Other activities

BSL  
Signature of the Lecturer

# DAILY RECORD

Date: 29 / / 201

DAY: wed.

Time	Class	Topic	Points covered	Remarks
10:25 to 1:10	T.Y. B.Sc.	one Valence electron systems	$J^2 = l^2 + s^2 + 2l^2 s^2 \cos(l^2 s^2)$ $l^2 s^2 \cos(l^2 s^2) = \frac{J^2 - l^2 - s^2}{2}$ $\Delta W_{LS} = \frac{ze^2}{4\pi\epsilon_0} \frac{\hbar^2}{a^3 n^3 l(l+1/2)(l+1)} \frac{J^2 - l^2 - s^2}{2}$ $\Delta W_{LS} = \frac{R \alpha^2 c h z^4}{n^3 l(l+1/2)(l+1)} \frac{J^2 - l^2 - s^2}{2}$	
		where	$R = \frac{2\pi^2 m e^4}{c h^3}$ <p>— Rydberg constant</p> $a^2 = \frac{4\pi\epsilon_0 \hbar^2 m e^2}{c^2 h^2}$ <p>— square of fine structure constant.</p>	

Book referred: Concept of modern physics - A. Basilez

Other activities

  
 Signature of the Lecturer

# DAILY RECORD

Date: 30 / 8 / 2018

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y. B.Sc.	one Valence electron systems	$\Delta \Gamma_{LS} = \frac{-R \alpha^2 z^4}{n^3 l(l+1/2)(l+1)} \frac{J^2 - l^2 - s^2}{2}$ $\Delta \Gamma_{LS} = -\Gamma$ $\Gamma = a l^2 s^2 \cos(l^2 s^2)$ $\Gamma = a \frac{J^2 - l^2 - s^2}{2}$ $a = \frac{R \alpha^2 z^4}{n^3 l(l+1/2)(l+1)} \text{ cm}^{-1}$	
2:15 to 3:00	S.Y. B.Sc.	measure ment of pressure	displacement of diaphragm $\gamma_0 = \frac{3}{16} p \frac{(1-s^2)}{e t^3} R^4$ $P_{max} = 1.5 \left(\frac{t}{R}\right) \gamma_0 \text{ max.}$ $p = 3.58 \frac{R t}{R^4} \gamma_0^3$	

Book referred

 Concept of modern physics - A. Basilez  
 Instrumentation - A.K. Sawhney

Other activities

  
 Signature of the Lecturer

# DAILY RECORD

Date: 31/8/2018

DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:35 to 11:40	T.Y. B.Sc.	one valence Electron system.	$\Gamma = a \cdot l^2 \cdot s^2 \cdot \cos(l \cdot s)$ $J_j = l_0 - \Gamma$ <ul style="list-style-type: none"> <li>Splitting of p level due to spin-orbit interaction.</li> <li>Energy level diagram.</li> </ul>	
2:15 to 3:20	S.Y. B.Sc.	measurement of pressure.	<ul style="list-style-type: none"> <li>Types of diaphragms</li> <li>⊙ flat diaphragms</li> <li>⊙ corrugated diaphragms</li> <li>⊙ sawtooth</li> <li>⊙ Trapezoidal</li> <li>⊙ sinusoidal.</li> </ul>	

Book referred

Concept of modern physics — A. Baisaj  
Instrumentation — A.K. Sawhney

Other activities

S.D.

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Signature of the Lecturer

# DAILY RECORD

Date: 1/9/2018

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
3:40 to 3:45	S.Y. B.Sc.	measurement of pressure.	<ul style="list-style-type: none"> <li>Bellows:</li> <li>Diagram of working of Bellows.</li> <li>Deflection <math>\gamma</math> of bellows is given by eqn.</li> <math display="block">\gamma = 2hA \frac{PR_0^2}{Ed^3}</math> <li>⊙ Bourdon Tubes</li> <li>Types of bourdon tubes.</li> <li>Basic principles of measurement of pressure using bourdon tubes.</li> </ul>	

Book referred

Instrumentation — A.K. Sawhney

Other activities

Signature of the Lecturer

## DAILY RECORD

Date: 3/3/2018

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:55	M.Sc. (I)	practical	1. Explanations and demonstration of experiments	
0:15 to 5:00	S.Y. B.Sc.	measurement of pressure	- c-type Bourdon tube - figure and working of c-type Bourdon tube - materials commonly used for c-type Bourdon tubes. - compound gauge - Advantage of c-tube. - Helical Bourdon tube fig and working of helical Bourdon tube.	
0:15 to 5:15	F.Y. B.Sc.	practical	- Explanation and demonstration of experiments	

 Book referred Instrumentation - A.K. Sawhney

Other activities

B.S.  
Signature of the Lecturer

## DAILY RECORD

Date: 4/3/2018

 DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:55	S.Y. B.Sc.	practical	- Explanation and demonstration of experiments	
1:10 to 1:55	F.Y. B.Sc.	one Valence electron systems	- Energy levels of sodium. - Energy levels of normal sodium atom and comparison with hydrogen. - Electronic configuration $1s^2 2s^2 2p^6 3s^1$ - Ground state is denoted by $3^2S_{1/2}$	
0:15 to 5:15	F.Y. B.Sc.	practical	- explanation and demonstration of experiments	

 Book referred concept of modern physics - P. Bahadur

Other activities

B.S.  
Signature of the Lecturer

# DAILY RECORD

Date: 5/9/2018

DAY: wed.

Time	Class	Topic	Points covered	Remarks
			Teacher's Day	

Book referred

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 6/9/2018

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	TY: BSc.	One Valence Electron Systems	- selection rules. ⊙ selection rules for $L = \Delta L = \pm 1$ ⊙ S.P. for $J \rightarrow \Delta J = \pm 1$ or 0. (0 $\Rightarrow$ 0 excluded) ⊙ S.P. for $S \rightarrow \Delta S = 0$ S.P. for $m_s$ and $m_l$ $\Delta m_l = 0$ or $\pm 1$ $\Delta m_s = 0$ and $\Delta m_j = 0$ or $\pm 1$	
2:15 to 3:00	SY: BSc.	measurement of pressure.	- spiral Bourdon tube - figure and working $\frac{\theta}{\theta_0} = \frac{1.16 P r^2}{E t b}$ * Comparison bet <sup>n</sup> c-tube, helical tube and spiral tube for measurement of pressure.	

Book referred

concept of modern physics - A. Basig  
Instrumentation - A.K. Sawhney

Other activities

  
Signature of the Lecturer



## DAILY RECORD

Date: 7/9 /2018

 DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:35 to 11:40	T.Y. B.Sc.	one valence Electron System	<u>Sodium atom spectrum</u> 1) Sharp series $n^2 P_{1/2} \rightarrow 3^2 P_{1/2, 3/2}$ doublet 2) Principal series $n^2 P_{3/2, 1/2} \rightarrow 3^2 S_{1/2}$ doublet 3) Diffuse series - $n^2 D_{3/2, 5/2} \rightarrow 3^2 P_{3/2, 1/2}$ triplet	
8:15 to 9:15	S.Y. B.Sc.	measurement of pressure	- Electrical type transducers - • Linear variable differential transformer (LVDT) • figure • working • measurement of pressure using LVDT	

Book referred

concept of modern physics - A. Beiser  
 Instrumentation - A. K. Sawhney

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 8/9 /2018

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
9:00 to 9:45	S.Y. B.Sc.	measurement of pressure	- strain gauge transducers - 1) Bonded strain gauge 2) Un-bonded strain gauge 3) Un-bonded strain gauge • figure - working of un-bonded strain gauge $R = \frac{SL}{A}$ • Stationary member • movable Armature 4) Bonded strain gauge • active strain gauge • Dummy strain gauges	

Book referred

Instrumentation - A. K. Sawhney

Other activities

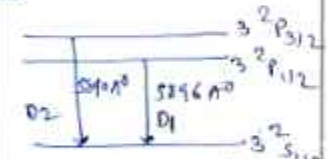


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# DAILY RECORD

Date: 12/9/2018

DAY: wed

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10	T.Y. B.Sc.	One Valence electron Systems	① Fundamental series $n^2 F_{7/2,5/2} \rightarrow 3^2 D_{5/2,3/2}$ - triplet ② Transitions of spectral lines in energy level diagram of sodium atom. ③ The sodium doublet 	
Book referred			Concept of modern physics - A. Baisak	
Other activities				

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# DAILY RECORD

Date: 14/9/2018

DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y. B.Sc.	Two valence electron Systems	- Two valence electron systems • Introduction • Spectral terms of two electron atom • orbit-orbit coupling • Some examples of L-L coupling like Pd, d <sub>5</sub> , PP configuration.	
2:15 to 3:00	S.Y. B.Sc.	measurement of pressure	- Temp. compensation used in strain gauges by using wheatstone bridge circuit. ① pressure transducer - calibration by Dead weight Tester method • figure and working.	
Book referred			Concept of modern physics - A. Baisak Instrumentation - A.K. Sawhney	
Other activities				

BSL  
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## DAILY RECORD

Date: 15/9 /2018

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
3:00 to 3:45	S.Y. B.Sc.	Signal conditioning and processing	<ul style="list-style-type: none"> <li>Signal conditioning and processing.</li> <li>Introduction</li> <li>Operational amplifier</li> <li>Circuit notations.</li> <li>operation of op-AMP.</li> <li>Parameters of op-AMP.</li> <li>input offset voltage (<math>V_{io}</math>)</li> <li>input offset current (<math>I_{io}</math>)</li> <li>Input bias current (<math>I_B</math>)</li> <li>Input offset current drift.</li> <li>Input offset voltage drift.</li> <li>open loop gain</li> <li>closed loop gain.</li> </ul>	

Book referred OP-AMP — Ramakant Gozswami.

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 18/9 /2018

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:50	S.Y. B.Sc.	Practical	<ul style="list-style-type: none"> <li>Explanation and demonstration of Experiments.</li> </ul>	
1:10 to 1:55	T.Y. B.Sc.	Two Valence Electron system.	<ul style="list-style-type: none"> <li>pd configuration</li> <li><math>T_1 = a_1 (s^2 - s_1^2 - e_1^2)</math></li> <li><math>T_2 = a_2 (L^2 - e_1^2 - e_2^2)</math></li> <li><math>T_3 = a_3 (J^2 - e_1^2 - e_2^2)</math></li> </ul>	
			<ul style="list-style-type: none"> <li>Energy level diagram.</li> <li>splitting of diff. energy levels</li> </ul>	
2:45 to 5:15	T.Y. B.Sc.	Practical	<ul style="list-style-type: none"> <li>Explanation and demonstration of Experiment</li> </ul>	

Book referred Concept of modern Physics - A. B. Baird

Other activities



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## DAILY RECORD

Date: 19/9/2018

 DAY: wednesday

Time	Class	Topic	Points covered	Remarks
12:45 to 1:10	T.Y. B.Sc.	zeeman effect.	zeeman effect Introduction • Early discoveries and development $\Delta \nu = \frac{eH}{4\pi m c} = 4.67 \times 10^{14} \text{ cm}^{-1}$ • Normal and Anomalous zeeman effect • Experimental arrangement. • Classical theory of normal zeeman effect. $\Delta \lambda = \pm \frac{\lambda^2 H e}{c 4\pi m}$	

Book referred

 Concept of modern physics  
 — A. Baisie

Other activities

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Signature of the Lecturer

## DAILY RECORD

Date: 20/9/2018

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:35 to 11:46	T.Y. B.Sc.	X-ray spectra	X-ray spectra Introduction • Production of an X-ray. • Nature of X-rays. • Duane and Hunt's rule $\lambda_{\min} = \frac{12420}{V} \text{ \AA}$ • Origin of X-ray spectra	
2:15 to 3:00	S.Y. B.Sc.	Signal Conditioning and processing	— operational amplifier as an adder — subtractor (Difference Amplifier) — Integrator — Differentiator — Active half wave filter — Active full wave filter • The op-amp as a Comparator	

Book referred

 Concept of modern physics — A. Baisie  
 op-amp — Ramakant Goyalwad

Other activities

B.Sc.  
Signature of the Lecturer

# DAILY RECORD

Date: 21/9/2018

DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	TY. Bk.	X-ray Spectra	origin of continuous X-ray spectra. $\lambda_{min} = \frac{1242 \times 10^5}{V} \text{ m.}$ * characteristics X-ray spectra • moseley's law.	
2:15 to 3:00	SY. Bk.	Signal Conditioning and processing	$V = \frac{1}{2} R (2G)^2 \left( \frac{1}{h_1^2} - \frac{1}{h_2^2} \right)$ — Logarithmic Amplifier - current to voltage converter - voltage to current converter • Buffer amplifier • Instrumentation Amplifier • filters (Low/High Pass)	

Book referred: Concept of modern physics - Ramankrishna Prasad.  
 - A. B. Ghosh - Operational Amplifiers

Other activities

Y. S.  
Signature of the Lecturer

# DAILY RECORD

Date: 22/9/2018

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
3:00 to 3:45	SY. Bk.	Display Recorder and Activations	• Introduction • Strip chart recorder - pen and ink stylus - Heated stylus - Chopper bar - Electric stylus marking • Types of strip-chart recorder. • Galvanometer type recorder.	

Book referred: Instrumentation: A. K. Sawhney.  
 Fundamentals of Industrial Instrumentation - Alok Gupta.

Other activities

Y. S.  
Signature of the Lecturer

# DAILY RECORD

Date: 24/9/2018

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:15 to 1:15	M.Sc. (5)	Practical	- Explanation and demonstration of experiment	
2:15 to 5:10	S.Y. B.Sc.	Display Recorder and Activator	<ul style="list-style-type: none"> <li>Null Type (potentiometric) Recorder.</li> <li>Potentiometric recorder:</li> <li>X-Y Recorder</li> <li>Figure, working</li> <li>Oscillographic Recorder figure working.</li> </ul>	
5:15 to 5:45	T.Y. B.Sc. (Extra)	Molecular Spectroscopy	<ul style="list-style-type: none"> <li>molecular spectra of the rigid diatomic molecule</li> <li>Rotational spectra of rigid diatomic molecule</li> <li>Vibrational spectra and vibrational energy levels</li> </ul>	

Book referred: Fundamentals of Industrial Instrumentation - A.K. Bakshi.  
 Concept of Modern Physics - A. Baisak

Other activities

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# DAILY RECORD

Date: / /201

DAY: \_\_\_\_\_

Time	Class	Topic	Points covered	Remarks
			II <sup>nd</sup> Term	

Book referred

Other activities

Signature of the Lecturer

# DAILY RECORD

Date: / / 201

DAY:

Time	Class	Topic	Points covered	Remarks

Book referred

Other activities

Signature of the Lecturer

# DAILY RECORD

Date: 20 / 11 / 2018

 DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12-25 to 1-10	T.Y.	Nuclear physics	- Nuclear physics - Introduction of nuclear physics - Importance of nuclear physics - Basic difference bet <sup>n</sup> . Atomic physics and nuclear physics and molecules physics.	

Book referred

Nuclear physics - D.C. Tipler.

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 23/11/2018

DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.T.	Basic properties of nucleus	• Basic Properties of nucleus • Introduction • Composition of nucleus • Nucleus size and density. • Rutherford's $\alpha$ -particle scattering experiment. $R = \frac{Zze^2}{4\pi\epsilon_0 R_{min}}$	

Book referred: Nuclear physics - D.C. Taya  
Atomic and nuclear physics - Shatendra Sharma

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 24/11/2018

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.T.	Basic prop. of nucleus	• Empirically formula $R = R_0 A^{1/3}$ • Calculation for density of nucleus $\rho = \frac{9m_0}{4\pi R_0^3}$ $\rho = \frac{3 \times 1.67 \times 10^{-27}}{4 \times 3.14 \times (1.2 \times 10^{-15})^3}$ $\rho = 2.308 \times 10^{17} \text{ kg/m}^3$	

Book referred: Atomic and nuclear physics: S. Sharma  
Nuclear physics: D.C. Taya

Other activities



Signature of the Lecturer



# DAILY RECORD

Date: 27/11/2018

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:35 to 11:40	T.Y. B.Sc.	Basic Properties of nucleus	- Nuclear charge - Atomic mass and atomic mass unit (amu) - Calculation for 1 amu. $E = mc^2$ $E = \frac{1.494 \times 10^{-10}}{1.6 \times 10^{19}}$ $E = 931 \text{ MeV}$ $1 \text{ amu} = 931 \text{ MeV}/c^2$	

Book referred Nuclear physics: - D.C. Taya  
Atomic and nuclear physics: - S. Sharma.

Other activities

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Signature of the Lecturer

# DAILY RECORD

Date: 28/11/2018

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10	T.Y.	Basic Properties of nucleus	- Nuclear Angular momentum. $\vec{S} = \sqrt{S(S+1)} \hbar$ $\vec{I} = \sqrt{I(I+1)} \hbar$ $\vec{J} = \vec{L} + \vec{S}$ $\vec{L} = \sqrt{L(L+1)} \hbar$ $\vec{S} = \sqrt{S(S+1)} \hbar$ $\vec{J} = \sqrt{J(J+1)} \hbar$ i - nuclear spin. $i = 0, 1, 2, 3, \dots$ - Boson. $i = 1/2, 3/2, 5/2, \dots$ - Fermion.	

Book referred Nuclear physics: - D.C. Taya  
Atomic and nuclear physics: - S. Sharma.

Other activities

YB

Signature of the Lecturer

# DAILY RECORD

Date: 30/11/2018

DAY: Friday.

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y. B.Sc.	Basic Prop. of nucleus	<p><u>Nuclear magnetic moment.</u></p> $\mu = i \times A$ $\mu = \frac{e v}{2 \pi r} \times \pi r^2$ $\mu = \frac{e v r}{2}$ $\mu = \frac{e}{2m} \vec{L}$ $\vec{\mu}_L = \frac{e}{2m} \vec{L}$ $\vec{\mu}_S = g \frac{e}{2m} \vec{S}$ $\mu = g \mu_B I^{\text{spin}}$ $\mu_B = \frac{e \hbar}{2m_e} = 0.927 \times 10^{-23} \text{ J/Wb/m}^2$ $\mu_N = \frac{e \hbar}{2m_p} = 5.05 \times 10^{-27} \text{ J/Wb/m}^2$ $\mu_p = -2.7927 \mu_N$ $\mu_n = -1.9131 \mu_N$	

Book referred: Nuclear Physics - D.C. Taya.  
Atomic and nuclear physics: S. Sharma.

Other activities

Head

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Signature of the Lecturer

# DAILY RECORD

Date: 1/12/2018

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y. B.Sc.	Basic Properties of nucleus	<p>Electrical quadrupole moments</p> $Q = \left(\frac{1}{2}\right) \int (3z^2 - r^2) \rho d\tau$ <p>spherical shape <math>Q=0</math> prolate shape <math>Q&gt;0</math> oblate shape <math>Q&lt;0</math></p> <p>Parity</p> $\psi_{l,m}(-r, \pi - \theta, \pi + \phi) = (-1)^l \psi_{l,m}(r, \theta, \phi)$ <p>Parity is determined by <math>(-1)^l</math>. if <math>l</math> - odd = parity - odd if <math>l</math> - even = parity - even.</p> <p>Symmetry</p> <p>Classification of nuclei</p> <ul style="list-style-type: none"> <li>Isopes</li> <li>Isotones</li> <li>Isobars</li> </ul>	

Book referred: Nuclear Physics - D.C. Taya.  
Atomic and nuclear physics - S. Sharma.

Other activities

Signature of the Lecturer

## DAILY RECORD

Date: 5/12/2018

DAY: wed.

Time	Class	Topic	Points covered	Remarks
12:45 to 1:10	T.Y.	Basic properties of nucleus	<ul style="list-style-type: none"> <li>• mass defect and binding energy</li> <li>• Binding energy curve</li> </ul> $BE = [Zm_p + (A-Z)m_n - m] c^2 \text{ Joule}$ $BE = [Zm_p + (A-Z)m_n - m] \times 931 \text{ MeV}$ <ul style="list-style-type: none"> <li>• packing fraction</li> <li><math>f = \Delta m/A</math></li> <li><math>f = (m - A)/A</math></li> <li>• packing fraction curve</li> <li>• Nuclear stability</li> <li>• Nuclear stability curve (<math>N</math> vs <math>Z</math>) curve.</li> </ul>	

Book referred

Nuclear physics: - D.C. Taya.

Atomic and nuclear physics: - S. Shama.

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 7/12/2018

DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y. B.Sc.	Radioactivity	<p style="text-align: center;"><u>Radioactivity</u></p> <ul style="list-style-type: none"> <li>• Introduction.</li> <li>• Radioactivity</li> <li>• Properties of <math>\alpha</math>, <math>\beta</math>, and <math>\gamma</math>-rays.</li> <li>• Law of Radioactivity</li> </ul> $\frac{dN}{dt} = -\lambda N$ <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <math display="block">N = N_0 e^{-\lambda t}</math> </div> $\frac{N}{N_0} = e^{-\lambda t} = 1/e$ <p>Graph of <math>N</math> vs <math>t</math></p>	

Book referred

Nuclear physics: - D.C. Taya

Atomic and nuclear physics: - S. Shama.

Other activities

  
 Signature of the Lecturer

# DAILY RECORD

Date: 9/12/2018

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 11:00	T.Y. B.Sc.	Radioactivity	<ul style="list-style-type: none"> <li>Radioactivity</li> <li>Activity (A)</li> <li><math>A = \left  \frac{dN}{dt} \right  = \lambda N</math></li> <li><math>A = \lambda N</math></li> <li><math>A = A_0 e^{-\lambda t}</math></li> <li>Graph - A vs t</li> <li>Graph <math>\ln A</math> vs t</li> <li>Unit of activity</li> <li>1 Curie = <math>3.7 \times 10^{10}</math> disintegrations/sec</li> <li>1 Rutherford = <math>10^6</math> disintegrations/sec</li> <li>Half Life (T)</li> </ul>	

Book referred: Nuclear physics - D.C. Taya  
Atomic and nuclear physics: S. Shazma

Other activities

*[Signature]*

Signature of the Lecturer

# DAILY RECORD

Date: 10/12/2018

DAY: Monday

Time	Class	Topic	Points covered	Remarks
2:15 to 3:00	G.Y. B.Sc.	Geometric optics	<ul style="list-style-type: none"> <li>Geometrical optics</li> <li>Introduction</li> <li>Importance of optics</li> <li>Geometrical optics</li> <li>Physical optics</li> <li>Quantum optics</li> <li>Lenses: Thick and thin</li> <li>Def<sup>n</sup> of lens</li> <li>Types of lenses</li> <li>Convex-lens</li> <li>Planoconvex-lens</li> <li>Concavo-convex lens</li> <li>Concave-lens</li> <li>Plano-concave-lens</li> <li>Convexo-concave lens</li> </ul>	

Book referred: A text-book of optics: N. Subrahmanyam  
Brijlal

Other activities

*[Signature]*

Signature of the Lecturer

# DAILY RECORD

Date: 11/12/2018

DAY: Wed.

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10	T.T. B.Sc.	Radio activity	<ul style="list-style-type: none"> <li>mean life (<math>\tau</math>) Defn</li> <li><math>\tau = \frac{\text{Total life time of all atoms}}{\text{Total no. of atoms}}</math></li> <li>Derivation for mean life time (<math>\tau</math>)</li> <li><math>\tau = 1/\lambda</math></li> <li><math>T = 0.693/\lambda</math></li> <li><math>\tau = 1.44T</math></li> <li>Activity at <math>t = \tau = 0.368</math></li> <li>Activity at <math>t=0</math></li> </ul>	
4:15 to 5:15	T.T. B.Sc.	Practical	<ul style="list-style-type: none"> <li>Explanation and demonstration of experiments</li> </ul>	

Book referred Nuclear physics:- D.C. Tayaal.  
Atomic and nuclear physics:- S. Sharma.

Other activities

YSR

Signature of the Lecturer

# DAILY RECORD

Date: 14/12/2018

DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.T. B.Sc.	Radio activity	<ul style="list-style-type: none"> <li>Specific Activity</li> <li><math>A_s = \frac{\text{Activity}}{M \text{ in gm}} = \frac{A}{M} = \frac{\lambda N}{M}</math></li> <li>Derivation for</li> <li><math>A_s = (4.174 \times 10^{23}) / (T \times A \text{ in wt})</math></li> <li>Specific activity of mass of substance for one Curie activity.</li> </ul>	
2:25 to 3:10	S.T. B.Sc.	Geometrical optics	<ul style="list-style-type: none"> <li>Centre of curvature (<math>C, R, C_1, C_2</math>)</li> <li>Radius of curvature (<math>r, R, r_1, R_1</math>)</li> <li>Axis of the lens</li> <li>Optical centre</li> <li>Poles of the lens</li> <li>Principal focus (<math>F</math>)</li> </ul>	
2:25 to 3:10	T.T. B.Sc.	Practical	<ul style="list-style-type: none"> <li>Explanation and demonstration of experiments</li> </ul>	

Book referred Nuclear physics:- D.C. Tayaal.  
A Text-book of optics:- N. Subrahmanyam

Other activities

YSR

Signature of the Lecturer

# DAILY RECORD

Date: 15/12/2018

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:35 to 11:40	T.Y. B.Sc.	Radio activity	<p>Partial Radioactivity decay.</p> $\frac{dN_A}{dt} = \lambda_A N = \lambda_A N_0 e^{-(\lambda_A + \lambda_B)t}$ $\frac{dN_B}{dt} = \lambda_B N = \lambda_B N_0 e^{-(\lambda_A + \lambda_B)t}$ <p>• successive disintegration</p>	
12:00 to 3:45	S.Y. B.Sc.	Geometrical optics	<p><math>N_2 = \frac{\lambda_2 N_0}{\lambda_2 - \lambda_1} (e^{-\lambda_1 t} - e^{-\lambda_2 t})</math></p> <p>→ sign conventions</p> <ul style="list-style-type: none"> <li>• lens eqn.</li> <li>• optical ray diagram</li> <li>• derivation of lens eqn.</li> </ul> $\frac{1}{b} = \frac{1}{u} + \frac{1}{v}$	
8:15 to 3:45	T.Y. B.Sc.	practical	<p>Explanation and demonstration of experiments</p>	

Book referred Nuclear physics - D.C. Tayal  
A text book of optics - N. Subrahmanyam

Other activities

PSL  
Signature of the Lecturer

# DAILY RECORD

Date: 17/12/2018

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:35 to 1:55	M.Sc. (E)	practical	<p>Explanation and demonstration of experiments.</p>	
2:15 to 3:05	S.Y. B.Sc.	Geometrical optics	<p>• lens maker's equation</p> <p>• refraction at a single curved surface</p> $\frac{\mu_2}{v} - \frac{\mu_1}{u} = \frac{\mu_2 - \mu_1}{R}$ <p>→ lens maker's formula.</p> <p>optical ray diagram.</p> $\frac{1}{v} - \frac{1}{u} = (\frac{\mu_2}{\mu_1} - 1) (\frac{1}{r_1} - \frac{1}{r_2})$ $\frac{1}{b} = \frac{1}{u} + \frac{1}{v} = (\mu - 1) (\frac{1}{r_1} - \frac{1}{r_2})$	
8:15 to 3:45	T.Y. B.Sc.	practical	<p>Explanation and demonstration of experiments.</p>	

Book referred A text-book of optics - N. Subrahmanyam

Other activities

PSL  
Signature of the Lecturer

# DAILY RECORD

Date: 18/12/2018

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:20	T.Y. B.Sc.	Radio-activity	<p>Rate of activity of parent and daughter</p> $R = \frac{\lambda_2}{\lambda_2 - \lambda_1} \left[ 1 - e^{-(\lambda_2 - \lambda_1)t} \right]$ $t_m = \frac{1}{\lambda_2 - \lambda_1} \ln \left( \frac{\lambda_2}{\lambda_1} \right)$ <ul style="list-style-type: none"> <li>Radioactive equilibrium</li> <li>Ideal equilibrium.</li> </ul> $N_1 \lambda_1 = \lambda_2 N_2 \left( \frac{T_1}{T_2} \right)$	
2:15 to 5:15	T.Y.	practical	- explanation and demonstration of experiments	

Book referred Nuclear physics: D.C. Taya,  
Atomic and nuclear physics: S. S. Saha

Other activities

YSL

Signature of the Lecturer

# DAILY RECORD

Date: 19/12/2018

DAY: wed.

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10	T.Y. B.Sc.	Radio-activity	<ul style="list-style-type: none"> <li>Secular or permanent equilibrium.</li> </ul> $N_2 \lambda_2 = N_1 \lambda_1 \left( 1 - e^{-\lambda_2 t} \right)$ $50 \xrightarrow[30]{90} \text{Sr} \xrightarrow[T_1=29Y]{\lambda_1} \text{Rb} \xrightarrow[35]{90} \text{Y} \xrightarrow[T_2]{\lambda_2} \text{Zr} \xrightarrow[60]{90} \text{Zr} \text{ (stable)}$ <ul style="list-style-type: none"> <li>Transient equilibrium.</li> </ul> $\frac{N_1 \lambda_1}{N_2 \lambda_2} = \frac{T_1}{T_2}$ $89 \xrightarrow[30.67Y]{140} \text{Tl} \xrightarrow[40.81Y]{72} \text{La} \xrightarrow[40.81Y]{72} \text{Ce} \text{ (stable)}$	
2:15 to 5:15	T.Y.	practical	- explanation and demonstration of experiments.	

Book referred Nuclear physics: D.C. Taya,  
Atomic and nuclear physics: S.S. Saha

Other activities

YSL

Signature of the Lecturer

# DAILY RECORD

Date: 20/12/2018

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	S.T. B.Sc.	practical	- Explanation and demonstration of experiments.	
2:15 to 3:00	S.T. B.Sc.	Practical optics	- magnification of thin lens $m = v/u$ • Deviation by a thin lens • optical ray diagram • $\delta = h/b$ • Power of thin lens. $P = 1/f$ $1/D = 1/m$ $P = P_1 + P_2$	
2:15 to 5:15	T.T.	practical	- Explanation and demonstration of experiments	

Book referred A text-book of optics: N. Subrahmanyam, Brij Lal.

Other activities

BSL  
Signature of the Lecturer

# DAILY RECORD

Date: 21/12/2018

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.T. B.Sc.	Radio activity	- Carbon Dating (Archaeological) time scale ${}^1_0\text{H} + {}^{14}_6\text{N} \rightarrow {}^{14}_7\text{N} + {}^1_0\text{H}$ ${}^{14}_6\text{C} \rightarrow {}^{14}_7\text{N} + \beta + \text{anti-neutrino}$	
3:00 to 3:45	S.T. B.Sc.	Geometrical optics	• Radioactive series Thorium, Neptunium, Uranium, Actinium. (4n, 4n+1, 4n+2, 4n+3) - Equivalent focal length of two thin lenses • optical ray diagram • Derivation for $\frac{1}{f} = \frac{1}{f_1} + \frac{1}{f_2} - \frac{x}{f_1 f_2}$	
2:15 to 5:15	T.T.	practical	- Explanation and demonstration of experiments	

Book referred Nuclear Physics - D.C. Tayal.  
A text-book of optics - N. Subrahmanyam

Other activities

BSL  
Signature of the Lecturer



# DAILY RECORD

Date: 20/12/2018

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y. B.Sc.	Radio activity	<ul style="list-style-type: none"> <li>Artificially produced Radio-nuclides.</li> <li> <math display="block">{}_7\text{B}^{10} + {}_2\text{He}^4 \rightarrow ({}_7\text{N}^{13})^* + \text{h}^1</math> <math display="block">({}_7\text{N}^{13})^* \rightarrow {}_6\text{C}^{12} + {}_1\text{H}^1</math> </li> <li>Applications of radio-activity.</li> </ul>	
03:00 to 03:45	S.Y. B.Sc.	Geometrical optics	<ul style="list-style-type: none"> <li>cardinal points</li> <li>focal points and focal planes</li> <li>principal points and principal planes</li> <li>Nodal points and nodal planes</li> <li><math>P_1N_1 = P_2N_2 = 0</math></li> </ul>	
02:15 to 5:15	T.Y.	practical	<ul style="list-style-type: none"> <li>Explanation and demonstration of experiments</li> </ul>	

Book referred Nuclear physics: - D.C. Taya.  
 A text book of optics: - M. Subrahmanyam

Other activities

982  
 Signature of the Lecturer

# DAILY RECORD

Date 26/12/2018

 DAY: wed.

Time	Class	Topic	Points covered	Remarks
12:05 to 1:10	T.Y. B.Sc.	Radio activity	<ul style="list-style-type: none"> <li>Problem solving.</li> </ul>	
		Nuclear forces	<ul style="list-style-type: none"> <li>Nuclear forces</li> <li>Introduction</li> <li>Types of forces</li> <li>gravitational forces</li> <li>Electromagnetic forces</li> <li>Weak interaction</li> <li>Strong interaction</li> <li>Nuclear forces (strong forces)</li> </ul>	
02:15 to 5:15	T.Y.	practical	<ul style="list-style-type: none"> <li>Explanation and demonstration of experiments</li> </ul>	

Book referred Nuclear physics: - D.C. Taya.  
 Atomic and nuclear physics: - S. Shama.

Other activities

981  
 Signature of the Lecturer

# DAILY RECORD

Date: 27/12/2018

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	S.Y. B.Sc.	practical	Explanation and demonstration of experiments	
2:15 to 3:00	S.Y. B.Sc.	Geometrical Optics	<ul style="list-style-type: none"> <li>Cardinal points for a optical system of two thin convex lenses separated by a finite distance</li> <li>optical ray diagram</li> <li><math>\beta = -a/b_1</math></li> <li><math>d = -a/b_2</math></li> <li>problem solving</li> </ul>	
2:15 to 3:15	T.Y. B.Sc.	practical	Explanation and demonstration of experiments	

Book referred A text-book of optics: - N. Subrahmanyam  
Brijlali

Other activities

YBL

Signature of the Lecturer

# DAILY RECORD

Date: 28/12/2018

DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y. B.Sc.	Nuclear forces	<ul style="list-style-type: none"> <li>Nuclear forces</li> <li>features of nuclear forces</li> <li>short range force</li> <li>charge independent</li> <li>strong interaction</li> <li>saturated forces</li> <li>non-central force</li> </ul>	
2:15 to 3:00	S.Y. B.Sc.	Lens Aberrations	<ul style="list-style-type: none"> <li>Introduction</li> <li>Types of aberrations</li> <li>monochromatic aberrations</li> <li>chromatic aberration</li> <li>spherical aberrations</li> <li>lateral and longitudinal spherical aberrations</li> <li>Explanation and demonstration of experiments</li> </ul>	
2:15 to 3:15	T.Y. B.Sc.	practical	demonstration of experiments	

Book referred Nuclear Physics: D.C. Tayal  
A text-book of Optics: N. Subrahmanyam

Other activities

YBL

Signature of the Lecturer

# DAILY RECORD

Date: 29/12/2018

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:15 to 12:40	T.P. B.Sc.	Nuclear forces	<ul style="list-style-type: none"> <li>Meson theory of nuclear forces.</li> <li><math>n \rightarrow p + \pi^-</math> and <math>p \rightarrow n + \pi^+</math></li> <li><math>p + \pi^- \rightarrow n</math> and <math>n + \pi^+ \rightarrow p</math></li> <li><math>p \rightarrow p + \pi^0</math> and <math>n \rightarrow n + \pi^0</math></li> <li>Feynman diagram.</li> </ul>	
9:17 to 9:45	S.T. B.Sc.	Lens Aberrations	<ul style="list-style-type: none"> <li>Reduction of spherical aberration</li> <li>By reducing the lens aberrations</li> <li>Use of plano-convex lens.</li> <li>Using crossed lens</li> <li>Combination of two plano-convex lenses separated by a finite distance.</li> </ul>	
5:11 to 5:15	T.P.	practical	<ul style="list-style-type: none"> <li>Explanation and demonstration of experiments.</li> </ul>	

Book referred Nuclear Physics Dr. Taya  
A text book of optics: N. Subrahmanyam

Other activities



Signature of the Lecturer

# DAILY RECORD

Date: 31/12/2018

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:35 to 11:58	M.Sc. (S)	Practical	<ul style="list-style-type: none"> <li>Explanation and demonstration of experiments</li> </ul>	
2:15 to 3:00	S.T. B.Sc.	Geometrical optics	<ul style="list-style-type: none"> <li>Coma.</li> <li>Defn; ray diagram.</li> <li>Reduction of coma</li> <li><math display="block">\frac{y_2}{y_1} = \frac{u_1 \sin \theta_1}{u_2 \sin \theta_2}</math></li> <li>① Astigmatism</li> <li>Defn; optical ray diagram</li> <li>Methods of reduction of astigmatism.</li> </ul>	
5:15 to 5:15	T.P.	practical	<ul style="list-style-type: none"> <li>Explanation and demonstration of experiments</li> </ul>	

Book referred A text book of optics: N. Subrahmanyam  
Brij Lal.

Other activities



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Signature of the Lecturer

## DAILY RECORD

Date: 1/10/2019

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	M.Sc. (E)	practical	Explanation and Demonstration of experiments.	
2:15 to 3:00	B.Sc.	Geometrical optics	• Distortion. • Oct <sup>n</sup> types of distortion • pin-cushion distortion • Barrel-shaped distortion • Optical ray diagram • Reduction of distortion • chromatic aberration Types of chromatic aberration	
2:15 to 3:15	T.Y. B.Sc.	practical	Explanation and demonstration of experiment.	

 Book referred A text book of OPTICS:- H. Subrahmanyam  
: Brijlal.

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 2/01/2019

DAY: Wed.

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10	T.Y. B.Sc.	Nuclear forces	- Relativistic wave eq <sup>n</sup> for $\pi$ -meson $E^2 = c^2 p^2 + m_K^2 c^4$ $\left( \nabla^2 - \frac{m_K^2 c^2}{\hbar^2} - \frac{1}{c^2} \frac{\partial^2}{\partial t^2} \right) \psi = 0$ Radial part is $(\nabla^2 - \mu^2) \phi(r) = 0$ $V(r) = -g^2 \frac{e^{-\mu r}}{r}$ $\Delta t = \frac{\hbar}{20 E}$ $m_K c^2 = \hbar / (R/c)$ $m_K / m_e = \hbar / m_e c R = 275$	
2:15 to 3:15	T.Y. B.Sc.	practical	Explanation and demonstration of experiment.	

 Book referred Nuclear physics - D.C. Tayal  
Atomic and nuclear physics - S. Sharma.

Other activities



Signature of the Lecturer

# DAILY RECORD

Date: 3/1/2019

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	S.T. B.Sc.	Practical	- Explanation and demonstration of experiment	
2:15 to 5:05	S.T. B.Sc.	Lens aberrations	<ul style="list-style-type: none"> <li>⊙ Lateral chromatic aberration</li> <li>⊙ Longitudinal chromatic aberration</li> <li>⊙ Axial or longitudinal chromatic aberration:</li> <li>optical ray diagram</li> <li>→ Derivation for axial chromatic aberration</li> <li><math>df = -wx/f</math></li> <li>- Explanation and demonstration of experiments.</li> </ul>	
2:15 to 5:15	T.Y. B.Sc.	practical	- demonstration of experiments.	

Book referred: A Text book of optics - N. Subrahmanyam = Brijlal.

Other activities



Signature of the Lecturer

# DAILY RECORD

Date: 4/1/2019

DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y. B.Sc.	Nuclear forces	<ul style="list-style-type: none"> <li>⊙ Singlet-Triplet Two Body Forces bet<sup>n</sup> two nucleons.</li> <li>⊙ Deuteron problem.</li> <li>⊙ Angular momentum</li> <li>⊙ quadrupole moment</li> <li>⊙ Binding energy</li> <li>⊙ size of deuteron.</li> </ul>	
2:15 to 5:05	S.T. B.Sc.	Lens aberration	<ul style="list-style-type: none"> <li>→ Achromatic combination of two thin lenses in contact.</li> <li><math>\frac{w_1}{f_1} + \frac{w_2}{f_2} = 0</math></li> <li>Achromatic doublet</li> <li>→ explanation and demonstration of experiments.</li> </ul>	
2:15 to 5:15	T.Y. B.Sc.	practical	- demonstration of experiments.	

Book referred: Nuclear Physics - B.C. Tipler  
A Text Book of optics - N. Subrahmanyam.

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 5/1/2019

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y. to B.Sc.	Nuclear forces	• Square well solution of the deuteron. $\frac{d^2u}{dx^2} + \frac{2\mu}{\hbar^2} (E-V) u(x) = 0$ $a^2 V_0 = \frac{\pi^2 \hbar^2}{4\mu_n}$ $a^2 V_0 = 1.48 \times 10^{24} \text{ MeV-cm}^2$	
3:00 to 3:45	S.Y. to B.Sc.	Lens aberrations	• Achromatic combination of two Co-axial thin lenses separated from each other • Optical ray diagram • Derivation $\alpha = \frac{f_1 + f_2}{2}$ • Problem solving 2	
2:15 to 5:15	T.Y. to B.Sc.	practice	→ explanation and demonstration of experiments.	

Book referred

 Nuclear physics - D.C. Taja  
 A text book of OPHS: - H. Subrahmanyam.

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 8/1/2019

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y. to B.Sc.	Nuclear forces	• Spin dependence of nuclear forces. • Saturation and short-range forces. • Elementary particles • Classification of Elementary particles • Baryons • Leptons • Mesons • Hadrons.	
2:15 to 5:15	T.Y. to B.Sc.	practical	→ Explanation and demonstration of experiments	

Book referred

Nuclear physics: - D.C. Taja

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 9/1/2019

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:35 to 1:10	T.Y.	Nuclear Physics	Table of elementary particles - Particle - symbol - Rest mass energy - Mean life sec. - Spin - Baryon number - Lepton number - Isospin - Strangeness	
2:15 to 5:15	T.Y.	Practical	- Explanation and demonstration of experiments.	

Book referred Nuclear Physics - D.C. Talyal.

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 10/1/2019

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	3-Y	Practical	- Explanation and demonstration of experiments	
2:15 to 3:00	5-Y	Optics instruments	- optical instruments - Introduction. - Simple microscope - optical ray diagram - working - magnifying power $M.P. = 1 + D/b$ - maximum $M.P. = D/b$ - minimum. $D \rightarrow$ D.O.V. = 25 cm. $b \rightarrow$ focal length	
2:15 to 5:15	T.Y.	Practical	- Explanation and demonstration of experiments	

 Book referred A text book of optics: N. Subrahmanyam  
: Brijlal.

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 11/1/2019

 DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:35 to 11:40	T.Y.	Nuclear physics	- Quark model - proton, neutron, meson. Quark defn. Types of quark - u-quark - d-quark - s-quark proton = 2u + 1d neutron = 1u + 2d	
2:15 to 3:05	S.Y.	optical instruments	- compound microscope - optical ray diagram $m.p = \frac{v_o D}{u_o H_e}$ $m.p = -\frac{v_o}{u_o} \frac{D}{H_e}$	
2:15 to 5:15	T.Y.	practice	= explanation and demonstration of experiments	

Book referred Nuclear Physics - D.C. Taya  
A text book of optics: N. Subrahmanyam

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 12/1/2019

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:35 to 11:40	T.Y.	Particle Accelerators and Detectors	- particle accelerators and detectors - Introduction - particle accelerators - Linear accelerator (LINAC) - Diagram of LINAC - working principle $L_n = \lambda \frac{(neV_0 + C)}{2\pi c}$	
3:00 to 3:45	S.Y.	optical instrument	- Eye-pieces - Ramsden's eyepiece - optical ray diagram - working - Equivalent focal length $f = \frac{3}{4} f$	
2:15 to 5:15	T.Y.	practice	= explanation and demonstration of experiments	

Book referred Nuclear Physics - D.C. Taya  
A Text book of optics: N. Subrahmanyam

Other activities

  
 Signature of the Lecturer



## DAILY RECORD

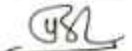
Date: 14/1/2019

DAY: Monday.

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	M.Sc (I)	practical	- Explanation and demonstration of experiments	
2:15 to 3:00	ST. B.Sc	optics instru- ments	Ramsden's eyepiece positions of cardinal points $\alpha = f/2$ $\beta = -f/2$ focal points $f/4$ Nodal points $M_1 = f/2$ $M_2 = -f/2$	
2:15 to 5:15	T.Y.	practical	- Explanation and demonstration of experiments	

 Book referred  $\rightarrow$  text book of optics: N. Subrahmanyam  
: Brijlal.

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 15/1/2019

DAY: Wed.

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10	T.Y.	particle acceler- ator	- Cyclotron - construction - working - Diagram (Top view side view) - potential $V = \frac{B^2 q R^2}{2m}$ - frequency $n = \frac{Bq}{2\pi m}$ - $E = 2\pi^2 R^2 n^2 m$ - Effect of relativistic mass increase $m = \frac{m_0}{\sqrt{1 - v^2/c^2}}$	
2:15 to 5:15	T.Y.	practical	- Explanation and demonstration of experiments	

Book referred Nuclear physics - D.C. Tayal.

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 17/1/2019

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:35 to 1:15	S-Y.	practical	- Explanation and demonstration of experiments	
2:15 to 3:00	S-Y.	optical instruments	- Huygen's eye piece - optical ray diagram - working - construction - $u = 3b/2$ - Equivalent focal length $F = 3b/2$ - Conditions of minimum spherical and chromatic aberration	
2:15 to 5:15	T-Y.	practical	- Explanation and demonstration of experiments	

Book referred: A text book of optics: N. Subrahmanyam

Other activities



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## DAILY RECORD

Date: 18/1/2019

DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T-Y.	particle detectors	- particle detectors - principle - Types of detectors - G.M. Counter - Construction of G.M. tube - Electric field $E = \frac{V}{2.1n(b/a)}$ - Working of G.M. counter - characteristic of G.M. counter	
2:15 to 3:00	S-Y.	optical instruments	- positions of cardinal points in Huygen's eyepiece $\alpha = 3b, \beta = -b$ $M_1 = 3b, M_2 = -b$ $a_1f_1 = 3b/2, a_2f_2 = b/2$	
2:15 to 5:15	T-Y.	practical	- Explanation and demonstration of experiments	

 Book referred: Nuclear physics: D.C. Taya  
A text book of optics: N. Subrahmanyam.

Other activities



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## DAILY RECORD

Date: 19/1/2019

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:35 to 11:40	T.Y.	Particle Detector	G.M. tube • oscillogram of G.M counter pulse • quenching of gas breakdown • Scintillation counter • Diagram • working	
3:00 to 5:45	S.Y.	optical instruments	- Comparison of Ramsden's and Huygen's eyepiece • Positive eyepiece • Negative eyepiece • Problem solving - Explanation and demonstration of experiments	
2:15 to 5:15	T.Y.	practical		

Book referred Nuclear Physics: - D.C. Taya  
A text book of optics: N. Subrahmanyam

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 21/1/2019

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	M.Sc. (S)	practical	- Explanation and demonstration of experiments	
2:15 to 5:00	S.Y.	Interference	- Interference • Revision of interference • Constructive interference • Destructive interference • Diagram - variation of i) intensity with phase difference ii) Division of wave front iii) Division of amplitude	
2:15 to 5:15	T.Y.	practical	Explanation and demonstration of experiments	

Book referred A text book of physics: N. Subrahmanyam  
: Brijlal

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 22 / 1 / 2019

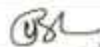
DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y.	Nuclear Reactions - Introduction	Nuclear Reactions • Nuclear Reactions $a + z \rightarrow \gamma + b$ $X(a, b)\gamma$ $\alpha + {}_2\text{N}^{14} \rightarrow {}_8\text{O}^{17} + \text{p}$ $\text{p} + {}_3\text{Li}^7 \rightarrow 2\text{He}^4 + \alpha$ ${}_3\text{Li}^7(\text{p}, \alpha){}_2\text{He}^4$ $\text{n} + {}_5\text{B}^{10} \rightarrow {}_3\text{Li}^7 + 2\text{He}^4$ ${}_8\text{O}^{18} + \text{p} \rightarrow {}_9\text{F}^{18} + \text{n}$	

Book referred

Nuclear Physics - D.C. Taya

Other activities

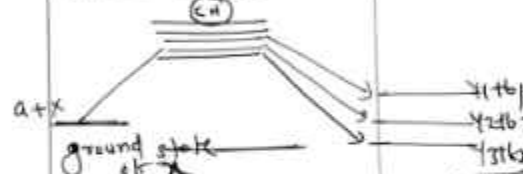


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## DAILY RECORD

Date: 23 / 1 / 2019

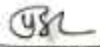
DAY: wed.

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10	T.Y.	Nuclear Reactions	Compound nucleus: $a + x \rightarrow \text{CN}^*$ $\text{CN}^* \rightarrow \gamma + b$ 	

Book referred

Nuclear Physics - D.C. Taya

Other activities



Signature of the Lecturer

## DAILY RECORD

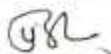
Date: 24/1/2019

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	S.Y.	practical	1. - Explanation and demonstration of experiments	
2:15 to 3:00	S.Y.	Interference	Division of Amplitude - Multiple reflection in thin film. $r = \frac{(n-1)^2}{n+1}$ for $n = 1.52$ $r = \frac{(1.52-1)^2}{1.52+1} = 0.042$ parallel sided film wedge shaped film Newton's rings Michelson's interference	

Book referred A text book of optics - N. Subrahmanyam - Brijlal

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 28/1/2019

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	M.Sc. (I)	practical	1. - Explanation and demonstration of experiments.	
2:15 to 3:00	S.Y. B.Sc.	Interference	Phase change on Reflections (Stokes treatment) - Principle of reversibility of light. - Ray diagram: reflection and refraction of light - Ray diagram: Stokes treatment - Derivation for $r = -r'$ or $r' = -r.                 $	

Book referred A text book of optics - N. Subrahmanyam - Brijlal

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 29/1/2019

DAY: Tuesday.

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y.	Nuclear Reactions	- Nuclear Reactions - Energy Balance and $Q$ value in nuclear reaction. - $Q$ value equation. $Q = E_3 + E_4 - E_1$ $Q = [(m_1 + m_2) - (m_3 + m_4)] c^2$ $Q = \left(1 + \frac{m_4}{m_3}\right) E_4 - \left(1 - \frac{m_1}{m_3}\right) E_1 - \frac{2\sqrt{m_1 m_4} E_1 \cos \theta}{m_3} \cos \theta$ $\sqrt{E_4} = v \pm \sqrt{v^2 + w}$ $v = \frac{\sqrt{m_1 m_4}}{m_3 + m_4} \cos \theta$ $w = \frac{m_3 Q + E_1 (m_3 - m_1)}{m_3 + m_4}$	

Book referred Nuclear physics — D.C. Tipler  
Atomic and Nuclear physics — S. Sharma

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 30/1/2019

DAY: Wed

Time	Class	Topic	Points covered	Remarks
12:45 to 1:10	T.Y. B.Sc.	Nuclear Reactions	- Energetics of exoergic and Endoergic Reactions (i) Exoergic reactions ( $Q > 0$ ) $\sqrt{E_4} = v + \sqrt{v^2 + w}$ $({}^9\text{Be}^{10}) ({}^4\text{He}^4) {}^6\text{Li}^7, Q = +40 \text{ MeV}$ (ii) Endoergic reactions. ${}^6\text{Li}^7 ({}^4\text{He}^4) {}^9\text{Be}^{10}, Q = -4.0 \text{ MeV}$ (i) very low energy projectiles $v^2 + w \leq 0$ (ii) Threshold energy of the projectiles ( $E_1$ ) <sub>thr</sub> . $(E_1)_{\text{thr}} = -Q \left( \frac{m_1 + m_2}{m_2} \right)$	

Book referred Nuclear physics — D.C. Tipler  
Atomic and nuclear physics — S. Sharma

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 31/01/2019

DAY: Thursday.

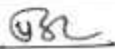
Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	S.Y.	Practical	• Explanation and demonstration of experiments.	
2:15 to 3:00	S.Y.	Interference	• Interference by parallel sided films. • Ray diagram of multiple reflections and recombination in thin film. • Interference due to reflected light. • Ray diagram. • Derivation for $\Delta = 2\mu t \cos r - \frac{\lambda}{2}$ • Conditions for maxima and minima.	

Book referred: A Text book of optics: N. Subrahmanyam = Brijlal.

Other activities



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Signature of the Lecturer

## DAILY RECORD

Date: 01/2/2019

DAY: Friday.

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y.	Nuclear Reactions	- Nuclear cross section $\frac{R}{R_0} = \frac{\text{Effective area}}{\text{Area of foil}}$ $\frac{R}{R_0} = \epsilon n x$ $-dN = \epsilon n dx$ $\int_{N_0}^N \frac{dN}{N} = -\epsilon n \int_0^x dx$ $N = N_0 e^{-\epsilon n x}$	
2:15 to 3:00	S.Y.	Interference	• Interference due to recombined light. • Optical ray diagram. • Derivation for $\Delta = 2\mu t \cos r$ • Conditions for maxima and minima.	

 Book referred: Nuclear physics - D.C. Talyal  
 A Textbook of optics: - N. Subrahmanyam.

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 2 / 2 / 2019

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y.	Nuclear Reactions	<ul style="list-style-type: none"> <li>Conservation laws in nuclear reactions</li> <li>Conservation of charge</li> <li>Conservation of nucleons</li> <li>Conservation of mass-energy</li> <li>Conservation of parity</li> <li>Conservation of momentum</li> </ul>	
3:00 to 3:45	S.Y.	Inter- ference	<ul style="list-style-type: none"> <li>Interference due to wedge shaped thin film.</li> <li>optical ray diagram</li> <li>Derivation for <math>\Delta = 2\mu d \cos(\theta) - \frac{\lambda}{2}</math></li> <li>Conditions for maxima and minima.</li> </ul>	

Book referred Nuclear physics - D.C. Taya  
A text book of opti- N. Subrahmanyam

Other activities



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## DAILY RECORD

Date: 2 / 2 / 2019

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	M.Sc (E)	practical	<ul style="list-style-type: none"> <li>Explanation and demonstration of experiments.</li> </ul>	
2:15 to 3:00	S.Y.	Inter- ference	<ul style="list-style-type: none"> <li> fringe width in case of fringes of equal thickness</li> <li>optical ray diagram</li> <li>Derivation.</li> </ul> $x_n = \frac{n\lambda}{2\mu \tan^2 \theta \cos(\theta)}$ $x_{n+1} = \frac{(n+1)\lambda}{2\mu \tan^2 \theta \cos(\theta)}$ $f = \frac{\lambda}{2\mu \tan^2 \theta \cos(\theta)}$ <p>Case (1) - <math>f = \lambda / 2\mu d \sin^2 \theta</math></p> <p>Case (2) - <math>f = \lambda / 2\mu d</math></p>	

Book referred A text book of optics: N. Subrahmanyam  
: Bijuji.

Other activities



Signature of the Lecturer



## DAILY RECORD

Date: 5/2/2019

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y.	Nuclear reactions	- problem solving	
		Nuclear Energy	- Nuclear energy - Introduction - Nuclear fission	
			${}_0^1\text{H} + {}_{92}^{235}\text{U} \rightarrow ({}_{92}^{236}\text{U})^* \rightarrow A+B+\text{neutrons} + E$ ${}_{92}^{235}\text{U} + {}_0^1\text{H} \rightarrow {}_{56}^{141}\text{Ba} + {}_{36}^{92}\text{Kr} + 3{}_0^1\text{H} + E$ ${}_{92}^{235}\text{U} + {}_0^1\text{H} \rightarrow {}_{54}^{140}\text{Xe} + {}_{38}^{94}\text{Sr} + 2{}_0^1\text{H} + E$	
			Distribution of fission fragments curve	

Book referred Nuclear physics - D.C. Toyal.

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 7/2/2019

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	S.Y.	Practical	- Explanation and demonstration of experiments	
2:15 to 3:00	S.Y.	Interference	- <u>Newton's Rings</u> - Derivation for $2ud = (2n+1)\lambda/2$ - maxima - $2ud = n\lambda$ - minima - Radii of dark and bright rings - optical ray diagram - Derivation for $D_n^2 = 4Rn\lambda$ & $D_m^2 = 4Rm\lambda$ $\lambda = \frac{D_n^2 - D_m^2}{4R(m-n)}$	

Book referred A Text book of OPHCS: N. Subrahmanyam : Bajjal.

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 8/2/2019

DAY: Friday.

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y.	Nuclear Energy	- Bohr's and wheel's Theory of Nuclear fission. - The stages in nuclear fission as described by liquid drop model. - fission process of heavy nucleus is equivalent to liquid drop.	
2:15 to 3:00	S.Y.	Interference	- Experimental arrangement for Newton's rings. - Optical ray diagram. - Applications 1) determination of wavelength of light $\lambda = \frac{D_2^2 - D_1^2}{4r(n-m)}$ 2) determination of refractive index of liquid.	

Book referred: Nuclear physics - D.C. Taylor.  
 A Text book of optics - N. Subrahmanyam

Other activities

PSL  
Signature of the Lecturer

## DAILY RECORD

Date: 11/2/2019

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	M.Sc. (E)	Practical	- Explanation and demonstration of experiments.	
2:15 to 3:00	S.Y. B.Sc.	Diffraction	- Difference bet <sup>n</sup> Fraunhofer and Fresnel diffraction. - Fraunhofer's diffraction at a double slit. - optical ray diagram - Derivation for $I = 4A_0^2 \frac{\sin^2 \alpha}{\alpha^2} \cos^2 \beta$ - positions of maxima and minima. - Intensity curves for a double slit where $d=3b$ . - missing orders.	

Book referred: A text book of optics: N. Subrahmanyam  
 : Brij Lal.

Other activities

PSL  
Signature of the Lecturer

# DAILY RECORD

Date: 12/2/2019

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y.	Nuclear energy	<p>— Energy available from the fission.</p> <p>(a) Estimation from binding energy curve.  <math>E = 0.9 \times 235 = 211.5 \text{ MeV}</math>.</p> <p>(b) Estimation from the masses of fission fragments.  <math display="block">{}^1_0\text{n} + {}^{235}_{92}\text{U} \rightarrow {}^{141}_{56}\text{Ba} + {}^{92}_{36}\text{Kr} + 3 {}^1_0\text{n} + E</math> <math>E = 200.5 \text{ MeV}</math></p>	

Book referred: Nuclear physics - D.C. Tayaal.  
 Atomic and nuclear physics - S. Sharma.

Other activities

Signature of the Lecturer

# DAILY RECORD

Date: 14/2/2019

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
	T.Y.	Internal Exam		— worked as a Jr. Supervisor for internal Exam.
	S.Y.	Internal Exam		worked as a Jr. Supervisor for internal Exam.

Book referred

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 18/1/2019

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:55	M.Sc. (E)	Practical	- Explanation and demonstration of experiments.	
2:15 to 3:00	S.Y. B.Sc.	Diffraction	- plane diffraction grating - optical ray diagram - Derivation for $I = I_0 \left( \frac{\sin \alpha}{\alpha} \right)^2 \frac{\sin^2 N\beta}{\sin^2 \beta}$ - principal maxima - minima and secondary maxima. - Intensity contour for a grating containing six slits. - Rayleigh criterion for resolution.	

Book referred A Text book of optics: N. Subrahmanyam

Other activities

USL  
Signature of the Lecturer

## DAILY RECORD

Date: 20/2/2019

DAY: wed.

Time	Class	Topic	Points covered	Remarks
12:35 to 1:10	T.Y.	Nuclear Energy	- chain reactions ${}^1_0n + {}^{235}_{92}\text{U} \rightarrow {}^{141}_{54}\text{Ba} + {}^{92}_{36}\text{Kr} + 3 {}^1_0n + E$	
			<ul style="list-style-type: none"> <li>Chain reaction diagram</li> <li>chain reaction det.</li> <li>Controlled chain reaction</li> <li>Figure of controlled chain reaction with moderator.</li> <li>Effective multiplication factor.</li> </ul>	

Book referred Nuclear physics: - O.C. Tayal.

Other activities

USL  
Signature of the Lecturer

## DAILY RECORD

Date: 21 / 2 / 2019

DAY: Thursday.

Time	Class	Topic	Points covered	Remarks
2:15 to 3:00	S.Y.	Polarization	Polarization. <ul style="list-style-type: none"> <li>• Introduction to Polarization</li> <li>• Study of polarization with tourmaline crystal plates</li> <li>• Explanation of some terms related with the Polarization</li> <li>• Polarized light</li> <li>• Unpolarized light</li> <li>• Partially polarized light</li> <li>• Plane of vibration</li> <li>• Plane of polarization</li> <li>• Representation of polarized and unpolarized light</li> </ul>	

Book referred A text book of optics: N. Subrahmanyam : Brijlal.

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 22 / 2 / 2019

DAY: Friday.

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y.	Nuclear Energy	$k = \frac{\text{Rate of production of neutron}}{\text{Rate of loss of neutron}}$ $k = \frac{P}{A+L}$ $k=1 - \text{critical}$ $k>1 - \text{supercritical}$ $k<1 - \text{subcritical}$ <ul style="list-style-type: none"> <li>• Critical size and critical mass</li> </ul>	
2:15 to 3:00	S.Y.	Polarization	<ul style="list-style-type: none"> <li>• Polarization by reflection</li> <li>• Production of plane polarized light by method of reflection.</li> <li>• Optical ray diagram</li> <li>• Brewster's law <math>\mu = \tan \theta_p</math></li> <li>• Proof of <math>\frac{\mu_2}{\mu_1} = \tan \theta_p</math></li> <li>• Applications of Brewster's law.</li> </ul>	

 Book referred Nuclear physics: - O.C. Jajal.  
 A text book of optics: N. Subrahmanyam.

Other activities



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## DAILY RECORD

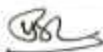
Date: 23/2/2019

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y.	Nuclear Energy	- NUCLEAR Reactor • Homogeneous nuclear reactor • Heterogeneous nuclear reactor • Essential components of a nuclear reactor 1) core, 2) reflector 3) control mechanism 4) moderator 5) coolants 6) measuring instrument 7) shielding.	
2:00 to 3:45	S.Y.	Polarization	- Law of Malus optical ray diagram $I_0 = I \cos^2 \theta$ • Polarization by double refraction. • Anisotropic crystals • Calcite crystal as a uniaxial crystal.	

Book referred Nuclear physics - D.C. Taya  
 A textbook of optics: N. Subramanyam.

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 25/2/2019

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	M.Sc. (I)	Practical	- Explanation and demonstration of experiments	
2:15 to 3:00	S.Y. B.Sc.	Polarization	- Uniaxial crystals • Biaxial crystals • Calcite crystals • Optic axis • Principal section and principal plane • Huygen's explanation of double refraction • Positive crystal and negative crystal. $\mu_e < \mu_o$ -ve crystal $\mu_e > \mu_o$ +ve crystal.	

Book referred A Text Book of Optics: N. Subramanyam  
 : Brijlal.

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 26/2/2019

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y.	Nuclear Energy	<ul style="list-style-type: none"> <li>• Power reactor</li> <li>- figure of power reactor working of power reactor</li> <li>• Heterogeneous thermal reactor</li> <li>- figure and working of heterogeneous thermal reactor</li> <li>• Swimming pool-type reactor</li> <li>- figure and working of swimming pool-type reactor</li> <li>• Breeder-reactor</li> </ul>	

Book referred Nuclear Physics - D.C. Taya

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 27/2/2019

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10	T.Y. B.Sc.	Nuclear Energy	<ul style="list-style-type: none"> <li>- Nuclear fusion</li> <li>- De<sup>2</sup>H example</li> <li><math>{}^1_1\text{H}^2 + {}^1_1\text{H}^2 \rightarrow {}^2_2\text{He}^4 + e^- = 24 \text{ MeV}</math></li> <li>• Stellar Energy (Energy generation in stars and sun)</li> <li>• Proton-proton cycle</li> <li><math>{}^1_1\text{H}^1 + {}^1_1\text{H}^1 \rightarrow {}^2_2\text{He}^4 + e^- + \nu</math></li> <li><math>{}^1_1\text{H}^2 + {}^1_1\text{H}^1 \rightarrow {}^2_2\text{He}^3 + e^- + \nu</math></li> <li><math>{}^2_2\text{He}^3 + {}^2_2\text{He}^3 \rightarrow {}^4_2\text{He}^4 + 2 {}^1_1\text{H}^1 + e^- + \nu</math></li> <li>• Carbon cycle</li> <li>• Difference bet<sup>n</sup> nuclear fission and nuclear fusion.</li> <li>• problem solving.</li> </ul>	

 Book referred Nuclear physics - D.C. Taya  
Atomic and nuclear physics - S. Sharma

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 28/12/2019

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
2:05 +0 3:00	S.T. B.Sc.	Polarization	Huygen's explanation of double refraction • Extraordinary ray (E-ray) • ordinary ray (O-ray) • Properties of E-ray and O-ray. • Positive and negative crystal. • Difference bet <sup>n</sup> positive and negative crystal. • Nicol prism. • optical ray diagram. • working of Nicol prism. • Problem solving.	

Book referred A Text-book of optics: N. Subrahmanyam : Brijlal.

Other activities

*SR*

Head

Department of Physics  
S.S.G.M. College, Kopergaon  
Dist. A. Nagar (M.S.) 423601

*BSL*

Signature of the Lecturer

# DAILY RECORD

Date: / / 201

DAY: \_\_\_\_\_

Time	Class	Topic	Points covered	Remarks

Book referred

Other activities

Signature of the Lecturer



"Education through self help is our motto" - Karmaveer



Rayat Shikshan Sanstha's

S. S. G. M. Science, Gautam Arts & Sanjivani  
Commerce College, Kopergaon. Dist. - Ahmednagar

**TEACHER'S DIARY**

( YEAR : 2019 - 2020 )

Name of the Lecturer Dr. Varpe B.D.

Subject Botany

**S. S. G. M. Science, Gautam Arts & Sanjivani Commerce College,  
Kopargeon. Dist.- Ahmednagar**

**PERSONAL RECORD**

Name in full : Dr. Varpe Babasaheb Dadabhai

Qualification : M. Sc. Ph.D.

Department : Botany Designation : Associate professor

Date of appointment : 01/07/1990 Present grade : \_\_\_\_\_

Residential address : SNEH Green park Society opposite sangamner college Sangamner

Phone number : 

9	8	5	0	8	2	5	9	6	5
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Blood group : 

B+
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PPF No. 10728

Chairman / Member of committees of the college / University

No.	Name of the Committee	Chairman / Member
1.	Feedback Committee	chairman
2.	Garden development & Campus beaut	chairman
3.	Academic observation,	members
4.		
5.		
6.		
7.		
8.		

### Allotment of Work ( I - Term)

Sr. No.	Class	Theory / Practical Paper No.	Title	Work load
1	S.X.B.Sc	Theory - Papers II (Half)	Plant physiology	02/week
2		Practical Papers III	Practical course	08/week
3	T.X.B.Sc	Theory papers IV	Spermatophyte	04/week
		Practical	Palaeobotany practical	02/week
4	M. Sc. I	Paper I - systematic		3L/week
5	M. Sc. II	(Project 2 students)	—	2L/week

### Allotment of Work ( II - Term)

Sr. No.	Class	Theory / Practical Paper No.	Title	Work load
1	S.X.B.Sc.	Theory paper I (Half)	Plant physiology	02/week
2	S.X.B.Sc.	Practical paper III	Practical course	08/week
3	T.X.B.Sc.	Theory paper IV	Medicinal & Eco. Botany	04/week
4	T.X.B.Sc.	Practical		02/week
5	M. Sc. I	Paper I, Systematic	Plant systematic	03/week
6	M. Sc. II	Project 2 students		2L/week

### Monthly Report

Sr. No.	Month	Teachers Signature	Remark	Sign. of Head of the department
1	July		completed	
2	August		completed	
3	September		completed	
4	Oct.		completed	

  
Signature  
of the faculty incharge

Head  
Department of .....

Principal

## Teaching Plan ( I / II - Term)

Class SX B.Sc., Subject Botany Paper II Year 2019-20

Name of the teacher Dr. Varpe B.D.

No. of working days available 80 No. of periods available 28

		Topics according to University Syllabus
Month <u>July 2019</u>		<u>Plant-water Relations</u> Physico-chemical properties of water membrane structure & permeability Diffusion - definition factors affecting
Working days	<u>13</u>	
Periods available	<u>04</u>	
Periods required	<u>04</u>	
Month <u>August 2019</u>		<u>Osmosis - Definition types of solution</u> plasmolysis - definition, mechanism deplasmolysis Imbibition concept, mechanism Absorption of water - Role in plants concept of water potential & capillary water
Working days	<u>25</u>	
Periods available	<u>09</u>	
Periods required	<u>06</u>	
Month <u>Sept 2019</u>		<u>Ascent of sap.</u> Introduction, Theories of Ascent of sap - vital theories - Jamin's chain theory & Bose theory physical force theory, factors affecting Nitrogen metabolism - Introduction Biological nitrogen fixation
Working days	<u>22</u>	
Periods available	<u>08</u>	
Periods required	<u>08</u>	
Month <u>Oct. 2019</u>		<u>Nitrogen metabolism</u> Non-symbiotic nitrogen fixation Denitrification, ammonification & nitrification Reductive amination & transamination Role of nitrogen in plants.
Working days	<u>19</u>	
Periods available	<u>07</u>	
Periods required	<u>04</u>	

Teachers Signature

Date: 17/07/2019

Head,

Department of .....

## Teaching Plan (I/H - Term)

Class T.V.B.Sc Subject Botany Paper IV Year 2019-20  
 Name of the teacher Dr. Varpe B.D.  
 No. of working days available 80 No. of periods available 55

Topics according to University Syllabus	
Month <u>July 19</u>	<u>Gymnosperms</u>
Working days <u>15</u>	<u>Introduction, general characters</u> <u>characteristics, secondary chambers etc (113)</u>
Periods available <u>08</u>	<u>study of life cycle of pine</u>
Periods required <u>8</u>	
Month <u>Aug. 19</u>	<u>Life cycle of Gnetum</u>
Working days <u>25</u>	<u>Angiosperm - origin &amp; Angiosperm</u> <u>classification Review, Hutchinson</u> <u>system.</u>
Periods available <u>17</u>	<u>study of family - Magnoliaceae,</u> <u>Capparidaceae, Rhamnaceae.</u>
Periods required <u>17</u>	
Month <u>Sept-19</u>	<u>Study of families Leguminosae</u> <u>Antoniaceae, Ascomycetes, Ascomycetes</u> <u>Lamiaceae, Myrtaceae, Orchidaceae</u> <u>&amp; Cannaceae</u>
Working days <u>22</u>	<u>Plant reproduction</u>
Periods available <u>16</u>	<u>Palaeobotany - Geological time scale</u> <u>Fossil - Process, types</u>
Periods required <u>16</u>	
Month <u>Oct-19</u>	<u>Study of following fossil group</u>
Working days <u>19</u>	<u>Psilopsids</u>
Periods available <u>14</u>	<u>Lycopsiads</u>
Periods required <u>08</u>	<u>Sphenopsids</u> <u>Phanerogams</u> <u>Coniferales</u>

Teachers Signature

Date: 17/7/2019

Head,

Department of \_\_\_\_\_

## Teaching Plan (I/II - Term)

Class M.Sc Subject Botany Paper I (BOUT) Year 2019-20  
 Name of the teacher Dr. Varpe B.D.  
 No. of working days available 66 No. of periods available 11

Topics according to University Syllabus	
Month <u>Aug 19</u>	<u>systematics &amp; Taxonomy</u>
Working days <u>25</u>	<u>classification of algae upto order</u> <u>level as per Fritsch system.</u>
Periods available <u>04</u>	
Periods required <u>03+1</u>	<u>1 - Cyanophyta - Distinguishing</u> <u>characters.</u>
Month <u>Sept-19</u>	<u>Thallos organization, ultra-structure</u> <u>&amp; Heterocysts.</u>
Working days <u>22</u>	<u>Chlorophyta - Thallos organization</u> <u>Reproduction - asexual &amp; sexual.</u>
Periods available <u>04</u>	
Periods required <u>03+1</u>	
Month <u>Oct-19</u>	<u>Application of algae</u>
Working days <u>19</u>	<u>Commercial application of</u> <u>algae - Biofertilisers, medicine</u> <u>&amp; pollution.</u>
Periods available <u>03</u>	
Periods required <u>02</u>	
Month	
Working days	
Periods available	
Periods required	

Teachers Signature

Date: 17/8/2019

Head,

Department of \_\_\_\_\_

Time Table (I-Term)

Sr No	Time	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
1.	10-55 11-20	T.Y.	T.Y.	Sx Pmt	Sx Pmt		
2.	11-25 12-10					T.Y.	T.Y.
3.	12-15 1-10						
4.	1-15 2-10			M.Sx I Theory			
5.	2-15 3-10	Sx.	Tx Pmt				
6.	3-15 4-10						
7.	4-15 5-10						Sx.
8.	5-15 6-10						
9.							

Time Table (II-Term)

Sr No	Time	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
1.	10-55 11-40	T.Y.	T.Y.	Sx Pmt	Sx Pmt		
2.	11-45 12-30					T.Y.	T.Y.
3.	12-35 1-20						
4.	1-25 2-10			M.Sx I Theory			
5.	2-15 3-10	Sx.	Tx Pmt				
6.	3-15 4-10						
7.	4-15 5-10						
8.	5-15 6-10						Sx.
9.							

Teaching Plain (I/II - Term)

Class S.V.B.S Subject Botany Paper I Year 2019-20Name of the teacher Dr. Varsha B.D.No. of working days available 24 No. of periods available 25

		Topics according to University Syllabus
Month	<u>Nov 2019</u>	<u>2 University Examination upto 4 Dec 2019</u>
Working days	<u>10</u>	
Periods available	<u>-</u>	
Periods required	<u>-</u>	
Month	<u>Dec 2019</u>	<u>Plant Anatomy</u>
Working days	<u>25</u>	<u>1 Introduction</u>
Periods available	<u>09</u>	<u>2 Spindle tissue system.</u>
Periods required	<u>10</u>	<u>3 Mechanical tissue system.</u>
Month	<u>Jan 2020</u>	<u>4 Vascular Tissue system</u>
Working days	<u>27</u>	<u>5 Normal Secondary growth</u>
Periods available	<u>09</u>	
Periods required	<u>08</u>	
Month	<u>Feb 2020</u>	<u>Anomalous Secondary growth</u>
Working days	<u>22</u>	<u>- Bignonis</u>
Periods available	<u>09</u>	<u>- Rhiphanis</u>
Periods required	<u>05</u>	<u>- Dracanis</u>

Teachers Signature

Date: 20/1/2019

M.Cal.

Department of Botany

## Teaching Plan (I/II - Term)

Class T.Y.B.Sc Subject Botany Paper IV Year 2019-2020Name of the teacher Dr. Vampr B.D.No. of working days available 84 No. of periods available 51

		Topics according to University Syllabus
Month	<u>NOV 2019</u>	<u>Examination, upto 4 Dec-19</u>
Working days	<u>10</u>	
Periods available	<u>00</u>	
Periods required	<u>00</u>	
Month	<u>Dec-2019</u>	<u>Medicinal Botany</u> <u>+ Introduction to pharmacognosy</u>
Working days	<u>25</u>	<u>→ Ayurvedic pharmacy</u>
Periods available	<u>18</u>	<u>→ Analytical medicinal Botany</u>
Periods required	<u>17</u>	
Month	<u>Jan-2020</u>	<u>1. Cultivation, collection &amp; processing</u> <u>&amp; herbal drug form</u>
Working days	<u>27</u>	<u>5 study of medicinally important drugs</u>
Periods available	<u>17</u>	<u>6 Applied medicinal Botany</u>
Periods required	<u>17</u>	
Month	<u>Feb-2020</u>	<u>Ethnobotany</u>
Working days	<u>22</u>	<u>&amp; Economic Botany</u>
Periods available	<u>16</u>	
Periods required	<u>14</u>	

Teachers Signature

Date 20/11/2019Head,  
Department of Botany

## Teaching Plan (I/II - Term)

Class M.Sc.T Subject Botany Paper I Year 2019-20Name of the teacher Dr. Vampr B.D.No. of working days available 84 No. of periods available 14

		Topics according to University Syllabus
Month	<u>NOV-2019</u>	
Working days	<u>10</u>	<u>-</u>
Periods available	<u>-</u>	
Periods required	<u>-</u>	
Month	<u>Dec-2019</u>	<u>Distribution, Distinguishing characters</u> <u>Morphology &amp; Anatomy of sporephytes</u> <u>&amp; gametophyte &amp; following orders</u>
Working days	<u>25</u>	<u>→ Ophioglossales, Marattiaceae</u>
Periods available	<u>04</u>	<u>→ Osmundales</u>
Periods required	<u>04</u>	
Month	<u>Jan-2020</u>	<u>Filicales</u>
Working days	<u>27</u>	<u>Marattiaceae</u>
Periods available	<u>05</u>	<u>Salvinales</u>
Periods required	<u>03</u>	
Month	<u>Feb</u>	
Working days	<u>22</u>	
Periods available	<u>05</u>	
Periods required	<u>-</u>	

Teachers Signature

Date 1/12/2019Head,  
Department of Botany

## DAILY RECORD

Date: 18/07/2019

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25	T-852	spermatophyta & Palaeobotany	- Spermatophyta and Palaeobotany - Introduction - General characters ↳ Gymnosperms	

Book referred

Gymnosperms - P. Vasishtha

Other activities prepare attendance Report



Signature of the Lecturer

## DAILY RECORD

Date: 19/07/2019

DAY: Friday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10	T-852	Gymnosperms	- classification ↳ Gymnosperms according to Chavacilin (1965) - Economic importance ↳ Gymnosperms	

Book referred

Gymnosperms - Vasishtha

Other activities campus supervision - plant training &amp; pruning



Signature of the Lecturer



# DAILY RECORD

Date: 25/07/2019

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
<del>9:45</del> <del>10:55</del> 10:55 to 11:40	<del>SYBSc</del> T.Y.Sc	<u>Pinus</u>	- systematic position - Distribution - External morphology ↳ Sporophylls	PAT
3:45 to 4:30	SYBSc	Plant-water Relation	- Introduction - physico-chemical properties of water	PPT

Book referred: *Gymnosperms - Vashista*  
*Plant Physiology - V. Verma*, Text book of plant physiology

Other activities: campus supervision

  
Signature of the Lecturer

# DAILY RECORD

Date: 22/07/2019

DAY: Monday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25	T.Y.Sc	<u>Pinus</u>	Internal structure - Root, stem & leaf	PPT
2:15 to 3:00	SYBSc	Plant water Relation	Membrane structure & Permeability - membrane structure - Permeability - Types of membranes - Theories of Permeability	PPT

Book referred: *Gymnosperms - by Sporne*,  
*Plant Physiology - V. Verma*

Other activities: manuring to garden plant.

  
Signature of the Lecturer

## DAILY RECORD

Date: 23/07/2019

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
3:00 to 3:45	SV52	Plant water relation	<ul style="list-style-type: none"> <li>- Aquaporins</li> <li>- Diffusion</li> <li>- mechanism</li> <li>- Law, factors affecting diffusion</li> <li>- importance of diffusion in plants</li> <li>- <u>Osmosis</u> - types, mechanism</li> <li>- Types of solutions.</li> </ul>	PPT

Book referred: Text book of plant physiology - Miral publications

Other activities: Meeting conducted feedback committee

  
Signature of the Lecturer

## DAILY RECORD

Date: 24/07/2019

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	TR02	Pinus	<p><u>Reproduction</u></p> <ul style="list-style-type: none"> <li>- male cone</li> <li>- female cone</li> <li>- structure &amp; ovule</li> </ul>	
3:45 to 4:30	SV52	Plant water relation	<p>Types of osmosis</p> <p>Plasmolysis</p> <ul style="list-style-type: none"> <li>- Definition &amp; mechanism</li> <li>significance</li> </ul>	PPT

Book referred: plant physiology by Vasishtha

Other activities: campus supervision

  
Signature of the Lecturer

## DAILY RECORD

Date: 25/07/2019

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:00	T-2/B-2	Pinus	<u>Gametophyte</u> - Pollen structure - Female gametophyte - Fossilisation - Embryology	PPT

Book referred Plant Physiology by Salisbury & Ross

Other activities update & departmental profile file

  
Signature of the Lecturer

## DAILY RECORD

Date: 26/07/2019

DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:25 to 1:10	T-2/B-2	Pinus	- Embryology - Alternation of generation - Economic importance of Pinus.	PPT

Book referred Gymnosperms by P.C. Vashishtha

Other activities teacher at door activity

  
Signature of the Lecturer

# DAILY RECORD

Date: 07/07/2019

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T. & G.	Gnetum	<ul style="list-style-type: none"> <li>- systematic position</li> <li>- Distribution</li> <li>- Morphology &amp; sporophyte</li> </ul>	
3:45 to 4:30	S.V.G.S.	Absorption of water	<ul style="list-style-type: none"> <li>- Introduction</li> <li>- Role of water in plants</li> <li>- Concept of water potential &amp; capillary water</li> </ul>	

Book referred: Gymnosperms by Sparrow  
Plant physiology by V. Verma.

Other activities: campus supervision.

  
Signature of the Lecturer

# DAILY RECORD

Date: 23/07/2019

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T. & G.	Gnetum	<ul style="list-style-type: none"> <li>- <u>Internal structure</u></li> <li>- Stem - primary structure</li> <li>- secondary structure</li> <li>- anomalous secondary growth in <u>stem</u></li> <li>- <u>leaf</u>.</li> </ul>	
3:45 to 4:30	Absorption of water S.V.G.S.		<ul style="list-style-type: none"> <li>- <u>mechanism of water absorption</u></li> <li>- active absorption</li> <li>- passive absorption.</li> </ul>	

Book referred: Gymnosperms by P.C. Vashista.

Other activities: departmental meeting

  
Signature of the Lecturer

# DAILY RECORD

Date: 30/07/2019

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10-40 to 12-25	11:25	Grading	- Reproduction - male cone - structure	

Book referred Gymnosperms by P.C. Vashishtha.

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 31/07/2019

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
10-55 to 11-50	SX/G3	Practical	- how to describe the Pteris - morphology of flowering twig.	

Book referred Text book of practical - Beedre &amp; Kumar.

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 01/03/2019

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
T. & B. 11-40 + 12-25	T. & B.	Gymnosperms	Reproduction - structure of female cone - morphological nature of ovule - structure of ovule	

Book referred Gymnosperms by P. C. Vashishta

Other activities campus supervision

  
Signature of the Lecturer

# DAILY RECORD

Date: 02/03/2019

DAY: Friday

Time	Class	Topic	Points covered	Remarks
1-10 + 1-55	T. & B.	Gymnosperms	Gametophyte - structure of pollen grain - Development of male gametophyte	

Book referred Gymnosperms by P. C. Vashishta

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 03/07/2019

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:35 to 11:40	T.V. & G.	Insects	<ul style="list-style-type: none"> <li>- female gametophyte</li> <li>- structure of ovule</li> <li>- morphological nature</li> </ul>	

Book referred Gymnosperms by sporne.

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 07/08/2013

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10	M.Sc. I	Paper I	Principle of systematics - Concept of systematics & hierarchical level	

Book referred Taxonomy of Angiosperms by Gurucharan Singh.

Other activities campus observation.

  
 Signature of the Lecturer

# DAILY RECORD

Date: 08/08/2013

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	SVB	Practical	study of tools & thermometry & biological instruments - Soil press - Secant - Visculum - hcc <u>Ecological instruments</u> - Maximum & minimum Thermometer - Wet & Dry bulb thermometer - Soil Thermometer - Hair hygrometer	permeability of these instruments + tool B

Book referred: Text book of Botany Practical vol. II by B. G. D. & G. S. S.

Other activities: NARC center I -

  
Signature of the Lecturer

# DAILY RECORD

Date: 09/08/2013

DAY: Friday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10	SVB	Ascent of sap	<u>Introduction</u> Path of Ascent of sap - soil water + minerals → root hairs ↓ Endodermis ↓ Pericycle ↓ xylem tissue ↓ xylem vessels ↓ shoot tip ↓ leaves	P.P.T.
1:10 to 1:55	SVB	Growth	- Gametophyte - male gametophyte - female gametophyte - Embryosac in Conidia	

Book referred: Text book of Plant physiology by - V. Verma.

Other activities

  
Signature of the Lecturer



# DAILY RECORD

Date: 10/09/2019

DAY: \_\_\_\_\_

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	TRBSE	Genetics	Pollination Peritheziation Alternation of generation	PPT
1:10 to 1:55	S.V.B.S	Ascent of sap	Theories of ascent of sap - Root pressure theory - Vital theory - Jamin's chain theory - Bose theory (pulley theory)	

Book referred Text book of plant physiology by Vashishta  
Saha

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 13/09/2019

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	TRBSE	<u>origin of Angiosperms</u>	Origin with reference to two piece & ancestor	PPT
11:40 to 12:25		<u>Bennett's talcum theory</u>		

Book referred Taxonomy of Angiospermas  
Plant Systematics - Gurucharan Singh

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 14/09/2019

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10	M. Sc 2	classification of Algae	- classification of Algae - F.E. Fritsch (1935)	

Book referred Algae - S.D. Kumar

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 16/08/2019

DAY: Friday

Time	Class	Topic	Points covered	Remarks
1:10 to 1:55	T.X.02	Angiosperms	Origin of Angiosperms - stenosperm theory - Grisebalean theory	

Book referred Angiosperms by Lawrence

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 19/06/2019

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:35 to 11:40 to 12:25	TXBs	classification	Review of artificial, natural & phylogenetic system (general anatomy) Hutchinson systems - Assumptions.	
2:15 to 3:00	SXBs	Ascent of sap	- capillary force theory - cohesion theory - atmospheric pressure theory.	

Book referred: A Text book of Botany - Plant physiology by V. Venny.

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 20/06/2019

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
2:15 to 5:15	TXBs	practical	- study of pines ① Internal morphology of sporophyte ② Internal structure of stem & leaf ③ Reproductive structure - male cone - female cone - mounting of pollen grain - L.S. of ovule	

Book referred: Text book of Botany practical by Beesoon &amp; Kumar

Other activities

  
 Signature of the Lecturer

## DAILY RECORD


Date: 21/08/2019

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	S.V.B.S	Practical	Study of Plant family Euphorbiaceae	
12:25 to 1:10	n.S.S.I	<u>Cyanophyta</u>	- Introduction - Distinguishing characters - Thallus organisation	

Book referred: monograph - 1959 Descriptive - Cyanophyta  
 Prescott G.W. (1962) The algae

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 22/08/2019

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	S.V.B.S	Practical	Family: Euphorbiaceae - Distinguishing characters - Floral formula - Floral diagram - Classification with reason.	

Book referred: Taxonomy of Angiosperms by Leuon Chouard  
 Singh

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 23/04/2019

DAY: Friday

Time	Class	Topic	Points covered	Remarks
1:10 to 1:55	T&B	classification system	Hutchinsonian system - outline of system - Merits - Demerits	

Book referred Taxonomy of Angiosperms by Gurnee Chavan Singh

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 24/04/2019

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25	T&B	APG III system of classification		
3:45 to 4:30	S&B	Ascent of Sap.	Factors affecting the Ascent of Sap.	

 Book referred Taxonomy of Angiosperms by Gurnee Chavan Singh  
 Plant Physiology by Salisbury & Ross

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 26/03/2019

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	TXB <sub>2</sub> Theory	Family	Magnoliaceae - systematic position - Distinguishing characters - Floral formula - Floral diagram Economic importance	
2:15 to 3:00	EXB <sub>2</sub>	<u>Nitrogen Fixation</u>	Introduction Biological nitrogen fixation - symbiotic nitrogen fixation	

Book referred: Text book of plant physiology - Nirali publication

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 27/03/2019

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25	TXB <sub>3</sub>	Family	Capripodaceae - systematic position - Distinguishing characters - Floral formula - Floral diagram Economic importance	
2:15 to 3:15	TXB <sub>3</sub>	Practical	- study of Gnetum Opt. morphology Internal structure Reproductive structure - male cone - female cone	

Book referred: Taxonomy of Angiosperms by Gentry et al. 2003

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 26/8/2019

 DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	S.Y. 6 <sup>th</sup> Practical	Study	of vegetation by list count quadrats method. - Demonstration.	

 Book referred Practical botany vol. II by Besford & Furness

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 03/09/2019

 DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25	T.Y. 8 <sup>th</sup>	Plant	Family Family - Rhamnaceae Distribution Systematic position Morphology Distinguishing characters Floral diagram & Formula.	
2:15 to 5:15	T.Y. 8 <sup>th</sup>	Practical	Family - Magnoliaceae	

 Book referred Angiosperm by Lawrence.

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 04/09/2019

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
10.55 to 1.55	SXB3	Practical	Study of Hydrophytes Examples Hydrilla - Nymphae petiole - External & internal adaptations.	
12.25 to 1.10	M3e I	Cyanophyta	- Heterocysts - structure - significance	

Book referred: Practical Botany vol. II by Swoboda & Kumar  
Algae by G.C. Chopra.

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 07/09/2019

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10.55 to 12.25	TXB3	Family - Leguminosae	General distinguishing characters Subfamily, Papilionaceae - Morphological characters - Floral formula - floral diagram Economic importance with example.	
3.45 to 4.30	SXB3	Nitrogen metabolism	The nitrogenase enzyme structure and function	

Book referred: Textbook of Angiosperm. by Ganesha Ram Singh

Other activities

  
Signature of the Lecturer



## DAILY RECORD

Date: 29/09/2019

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y.05	Nitrogen metabolism	- Denitrification $\text{NO}_3^- \rightarrow \text{NO}_2^- \rightarrow \text{NO} \rightarrow \text{N}_2$	
12:25 to 1:40	S.Y.02	Family - <i>Caesalpinaceae</i>	systematic position - Morphological characters - Floral formula - Floral diagram Economic importance	

Book referred: A Text book of Botany Angiosperms B. P. Pandey

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 30/09/2019

DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 to 1:10	T.Y. B.S.	Family - <i>Mimosaceae</i>	- <i>Asteraceae</i> systematic position Distinguishing characters floral formula floral diagram	

Book referred: Taxonomy of Angiosperms by V. N. N. Nayak

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 14/09/2019

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25	T&B		Family - Apocynaceae	
3:45 to 4:30	S&B	<u>Nitrogen metabolism</u>	Denitrification Nitrification Ammonification	

 Book referred Angiosperms by B.P. Pandey

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 15/09/2019

DAY: Monday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25	T&B	Family	Acanthaceae Systematic position Distinguishing characters Floral formulae Plants with <u>Leucopis</u> in part	
1:15 to 2:00	S&B	<u>Ex. Nitrogen metabolism</u>	- Reductive amination process - Role of Nitrogen in plants	

 Book referred Angiosperms by B.P. Pandey

Other activities

  
 Signature of the Lecturer

## DAILY RECORD


Date: 17/09/2019

 DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10.55 to 11.40	SXB	Family - Lamiaceae	<ul style="list-style-type: none"> <li>- Distinguishing features</li> <li>- Floral formula &amp; floral diagram</li> </ul>	
3:00 to 3:45	SXB	Nitrogen metabolism	<ul style="list-style-type: none"> <li>- Transamination</li> <li>- Role of Nitrogen in plants</li> </ul>	

 Book referred Plant Systematics by Gurcharan Singh.

Other activities


 Signature of the Lecturer

## DAILY RECORD

Date: 19/09/2019

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10.55 to 1.55	SXB	Practical	Study of Xerophytes - External adaptation - Internal adaptation	
2:15 to 3:00	SXB	Theory	Seed dormancy and Germination - Introduction	

 Book referred Practical Botany Vol-II Bhandari & Kumar

Other activities


 Signature of the Lecturer

## DAILY RECORD

Date: 20/09/2019

 DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y.B.Sc.	Family	Nyctaginaceae	
12:25 to 1:10	S.Y.B.Sc.	Seed Dormancy	- Definition seed - Types of Dormancy	

 Book referred Angiosperms by B.P. Pandey

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 21/09/2019

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.Y.B.Sc.	Family	- Orchadaceae - systematic position - morphological characters - Distinguishing features - floral formula - floral diagram	
1:10 to 1:55	S.Y.B.Sc.	-	- Seed Dormancy and germination - Breaking of seed dormancy - methods - physical - chemical - biological	

 Book referred Angiosperms by B.P. Pandey

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 24/12/2019

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:40 to 12:25	T&B	Family-	Cannaceae	
3:00 to 3:45	S&B	-	Seed dormancy & germination - metabolic changes during Seed germination	

Book referred Angiosperms by B.P. Pandey.

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 25/12/2019

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
10:55 to 12:25	T&B	S	Plant identifications Later diagnosis use of flora Practicing indentified & bracketed keys Preparation of artificial key. Plant authentication	

Book referred Plant Systematics by Gunecharan Singh

Other activities

  
 Signature of the Lecturer

## DAILY RECORD


Date: 03/10/2019

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
11:00 to 12:35	TJBS	Palaeobotany	Geological time scale.	

Book referred: Introduction to Palaeobotany Arnold C.B.

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 04/10/2019

DAY: Friday

Time	Class	Topic	Points covered	Remarks
1:30 to 3:30	TJBS	Palaeobotany	- Form genus concept - Process of fossil formation.	

Book referred: Essential of palaeobotany by Shubert &amp; Mishra.

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 5/10/2019

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
11:00 to 12:30	T.Y.B.Sc.	Palaeobotany	Fossil - Types & Fossils - Fossil groups <u>Psilopsida</u> salient features of order psilophytales - External & internal morphology of Rhynia.	

 Book referred Introduction to palaeobotany by Arnold C.R.

 Other activities Plant preservations & Training

  
 Signature of the Lecturer

## DAILY RECORD

Date: 07/10/2019

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
11:00 to 11:45	T.Y.B.Sc.	Palaeobotany	<u>Lycopside</u> - salient features of order Lepidodendrales External & internal morphology of <u>Lepidodendron</u>	

 Book referred Introduction to palaeobotany by Arnold C.R.

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 09/10/2019

 DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
1.45 to 2.30	M.Sc.	Palaeobotany	class - sphenopsida class - Pteridosperms class - Psilotophyta	

Book referred Arnold C.R. An Introduction to Palaeobotany  
 Shukla A.C. & Heslop S.P. Essential of palaeo

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 15/10/2019

 DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
11:00 to 2:00	M.Sc. I	Practical	Cyanophyta: - Nostoc Chlorophyta: - Volvox - Hydrodictyon - Spirogyra - Ulothrix	

Book referred College Botany - S. Sundarraj

Other activities

  
 Signature of the Lecturer



# DAILY RECORD

Date: 16/10/2019

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
1.10 to 3.00	M. Sci	Application of Algae	Commercial applications of Algae - Biofertilisers Medicine & Pollution.	

Book referred Shrinivasan K. S. (1969) Phycologia India  
vol. 1 & II BSI Calcutta.

Other activities Programme attained Science  
association. & vote of thanks.

  
Signature of the Lecturer

**DAILY RECORD**

Date: 6 / 12 / 2019

DAY: Friday

Time	Class	Topic	Points covered	Remarks
11.45 to 1.00	T.Y.B.S.	Paper IV	Bo-344 pharmacognosy - Discussion on syllabus - Introduction to pharmacognosy - Origin - history & scope of Pharmacognosy	

Book referred Text book of Pharmacognosy - Gokhale.

Other activities

  
 Signature of the Lecturer

## DAILY RECORD


Date: 07/12/2019

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
11:00 to 12:25	T.Y.B.Sc.	Pharmacognosy	classification of crude drug (a) Alphabetical classification (b) Morphological classification (c) Taxonomical classification (d) Chemotaxonomical classification (e) pharmacologic action & therapeutic use.	
3:45 to 4:30	S.Y.B.Sc.	Plant Anatomy	Introduction to plant Anatomy.	

 Book referred Pharmacognosy by Viven shah

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 16/12/2019

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
11:00 to 12:25	T.Y.B.Sc.	Ayurvedic pharmacy	- Definition - Tridosha concept - vata, Pitta & kapha. Indigenous medicinal system. - Ayurvedic system of medicine.	
2:15 to 3:00	S.Y.B.Sc.	Introduction to plant Anatomy	Scope & importance of plant Anatomy - application in Taxonomy - - in physiology - - in pharmacognosy - - in phytochemistry	

 Book referred Pharmacognosy by Viven shah

Other activities

  
 Signature of the Lecturer

# DAILY RECORD

Date: 17/12/2019

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:10	S.S. D.Sc.	Practical.	- study of plasmolysis.	
11:15 to 11:45	T-X B.Sc.	Indigenous system of medicine	- Siddha system of medicine - Unani system of medicine	
2:00 to 3:45	Sr B.Sc. Theory	Plant tissues	① Types of tissues ① simple tissue ① Parenchyma ② Collenchyma ③ Sclerenchyma	

Book referred: Practical Botany II. by Bendoric & Kumar  
 Text book of ~~And~~ Anatomy & Embryology of Angiosperm  
 by Singh, Panda & Jain

  
 Signature of the Lecturer

# DAILY RECORD

Date: 18/12/2019

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10	T-X B.Sc.		- Tibi/Tibetan system of medicine - Chinese system of medicine	
10:55 to 1:10	practical S.S. B.Sc.		Plasmolysis	

Book referred: pharmacognosy by Bishweshwar  
 Practical Botany by Bendoric & Kumar

Other activities

  
 Signature of the Lecturer

# DAILY RECORD

Date: 19/12/2019

DAY: ~~Friday~~ Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:10	SYBSc	Practical	- study of plasmolysis - demonstration	

Book referred Practical Botany by Ganga Kumar

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 20/12/2019

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
11:45 to 12:25	TXBSc	Ayurvedic Formulations	Asava Arishta Kwath Churna Lepa Bhasma	
3:45 to 4:30	SYBSc	Plant Anatomy	Complex tissue - Xylem - Phloem	

Book referred plant Anatomy by B.P. Pandey

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 23/12/2019

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10.55 to 11.40	T.K.B.Sc.	Analytical Medicinal Botany	<ul style="list-style-type: none"> <li>- Drug Adulteration</li> <li>- Methods of extraction                             <ul style="list-style-type: none"> <li>- Percolation</li> <li>- Maceration</li> <li>- continuous extraction</li> <li>- Soxhlet method.</li> </ul> </li> </ul>	
2.15 to 3.00	SXBs Theory	Plant Anatomy	<ul style="list-style-type: none"> <li>- Epidermal tissue system</li> <li>- Types of epidermis</li> <li>- Functions of epidermis</li> </ul>	

Book referred Plant Anatomy by B.P. Pandey

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 24/12/2019

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10.55 to 12.15.00	T.K.B.Sc.	Analytical medicinal Botany	<ul style="list-style-type: none"> <li>- Drug evaluation                             <ul style="list-style-type: none"> <li>- methods</li> <li>- Morphological / organoleptic evaluation</li> <li>- Physical method of evaluation</li> <li>- chemical method of evaluation.</li> </ul> </li> </ul>	

Book referred Pharmacognosy by S.B. Gokhale, C.K. Kokate & A.P. Purohit

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 26/12/2019

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
5:30 10:57 + 1:55	Practical		To determine diffusion pressure deficit of the given plant tissue. - demonstration - conclusion of Result	

 Book referred Practical Botany by Bendre & Kumar

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 27/12/2019

DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:00 + 12:25 (2)	T.P. B.Sc.	Pharmacognosy	- cultivation of herbal drugs - methods - factors affecting - collection & processing of crude drugs - collection - harvesting - drying - girdling - packing - storage of crude drugs	

 Book referred Pharmacognosy by S.B. Gokhale, O.K. Tokate

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 28/12/2019

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:45	T-XB	Medicinal plant	Study of medicinal plant w.r.t. occurrence, distribution, cultivation, chemical constituents & medicinal uses Root Rhizome drug - Glycyrrhiza stem drug - Ephedra Leaf drug - Adhatoda	
3-4:5 to 4:30	T-XB	Spideronal tissue system	- stoma - spideronal outgrowth	

Book referred Pharmacology by Gopale &amp; Kulkarni

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 30/12/2019

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 12:25 L23	T-XB	Medicinal plants	- Flower drug clove - Gut drug - Amle, amla - Unorganized drug - Shilajit & Aescis gum - Canton capture drug - Dioscorea	
2:55 to 3:05	T-XB	Mechanical tissue system	- Mechanical tissues - Principles involved in Inflexibility - In extensibility - Incompressibility - Shear stress	

 Book referred A Textbook of Pharmacology & phytochemistry  
 Kumar G.S. & Jayaraman

Other activities

  
 Signature of the Lecturer



## DAILY RECORD

Date: 31/12/2019

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
11:00 to 12:45	T.Y.B.S.	-	applied medicinal Botany Druv - <u>strychnos</u> <u>nuxvomica</u> - <u>Tinospora</u> <u>cordifolia</u>	
3:00 to 3:45	S.Y.B.S.	Distribution of mechanical tissue	- dicot stem root & leaves monocot stem root & leaves	

Book referred A Textbook of Pharmacology &amp; phyto chemistry by Kumar &amp; Sureshwar

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 01/01/2020

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	S.Y.B.S.	Practical	Estimation of citric acid by titration method. - Fermented broth - 0.1N NaOH - 0.1N succinic acid - burette pipette. - calculation of Result	

Book referred Biochemical methods by Sadasivam &amp; Manickam

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 02/01/2020

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	S2B2	Practical	① Estimation of citric acid by titration method  ② study of vegetation by list quadrant method.	

Book referred: Phytochemical methods by S. Sadashivam &amp; Marich.

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 03/01/2020

 DAY: ~~Saturday~~ Friday

Time	Class	Topic	Points covered	Remarks
11:45 to 12:25	T2B2	Applied medicinal botany	- Active principle. - metabolic pathways leading to production of active principles - carbohydrates - protein pathways	

Book referred: Pharmacognosy by Gireesh Shah

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 6/11/2020

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T&B	concept & applications of pharmacodynamics	- <u>Biopharmaceutics</u> - Applications	
2:15 to 3:00	S&B	<u>Vascular tissue system</u>	- Introduction - Types of vascular bundles.	

Book referred: Text book of pharmacy by Trease & Evans

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 07/11/2020

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T&B	concept and applications of pharmacodynamics	- <u>clinical pharmacokinetics</u> - Applications	
2:15 to 3:15	S&B	<u>Practical</u>	- Study of plant families - Apocynaceae - Asteraceae.	

Book referred: Hand book of clinical pharmacy A.V. Xader  
T.S. Shaikh

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 09/01/2020

 DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:30	M.Sc. I Theory		Plant systematic - Pteridophyte Order - Ophioglossales - Distinguishing characters - External morphology & spongy leaf - Internal structure & sporophyte	
0:55 to 1:50 1:55	S.Y.B.Sc. Practical		to determine rate of transpiration - Demonstration of physiological	

 Book referred Text book of Pteridophyte - by Vashishtha

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 09/01/2020

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:35	S.Y.B.Sc. practical		to determine rate of transpiration - physiological transpiration	

 Book referred Practical Botany by Borden & Kumar

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 10/01/2020

DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25	T-X-III	Sc.	<u>Ethnobotany</u> - introduction - concept, Definition - principles.	

 Book referred Manual of Ethnobotany by S.K. Jain

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 11/01/2020

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25	T-X-III	Sc.	<u>Test</u> Topic - Introduction to pharmacognosy (i) Ayurvedic pharmacy	
3:45 to 4:30	SVIII	Sc.	Vascular tissue system structure & function of xylem & phloem xylem - Tracheids Vessels xylem parenchyma wood fibre. phloem - sieve cells companion cells - phloem parenchyma - phloem fibre.	

 Book referred Plant Anatomy by R.P. Pandey

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 16/01/2020

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	SXBSc.	Practical	- study of normal & Abnormal secondary growths in woody dicot stem & monocot <u>Dracopis</u>	

Book referred Practical Botany by Benda & Bumar

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 17/01/2020

DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25	TXBSc.	<u>Ethnobotany</u>	- scope of ethnobotany - Ethnobotanical societies in India	

Book referred Manual of Ethnobotany by S.K. Jain

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 19/01/2020

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:30 to 11:40	T: & B: & S:	<u>Economic Botany</u>	Introduction Definition scope	
1:10 to 1:55	S: & B: & S:	<u>Normal secondary growths</u>	Introduction Definition significance of secondary growth Cambium & its role.	

 Book referred Textbook of Economic Botany Verma V.

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 21/01/2020

 DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
7:20 to 10:55 to 12:25	T: & B: & S:	<u>T: &amp; B: &amp; S:</u>	<u>Economic Botany</u> <u>Nonwood forest products</u> - Papers making - Gums Sources of each with economic importance.	
1:15 to 5:15	T: & B: & S:	<u>practical</u>	Study of plant family ① Myrtaceae ② Cannaceae	

 Book referred Economic Botany by S.L. Kocher

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 22/01/2020

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 to 1:10	M.Sc. I		Order - Ophiglossales Reproductive structure - structure of toothball of serosogen	
12:55 to 1:10	S&P Sc.	practical	Study of mechanical tissue Distribution of mechanical tissue	
3:45 to 4:30	S&P Sc.	Anatomy	Secondary growth Normal secondary growth in Annual stem & Perennial stem	

Book referred

Pteridophyte by Vashista.

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 23/01/2020

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:10	S&P Sc.	Practical	- study of mechanical tissue - study of distribution of mechanical tissue.	tissue of

Book referred

Practical Botany by Benda &amp; Kumar

Other activities

  
 Signature of the Lecturer



## DAILY RECORD

Date: 24/10/2020

DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25	T.X.B.S.		<u>Economic Botany</u> Origin, evolution & Services & uses of  <u>Rice</u> <u>Oryza sativa</u>	

Book referred Textbook of Economic Botany Verma V

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 25/10/2020

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
12:40 to 12:25	T.X.B.S.		<u>Rice</u> <u>Oryza sativa</u> uses of <u>Oryza sativa</u>	
3:45 to	S.X.B.S.		<u>Normal secondary growth</u> - Annual rings / Growth rings - Bark - Tyloses	

Book referred Economic Botany by Verma V.

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 27/01/2020

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.X.B. Sc.		Turmeric - source origin evolution & uses	
2:15 to 3:00	S.X.B.	Normal secondary growth	- Lenticels structure & function	

 Book referred Economic Botany by S.L. Kachar

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 28/01/2020

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
2:15 to 5:15	T.X.B. Sc.	Practical	- Identification of plant - study of fossils	

 Book referred Botany Practical by Bejinder Kumar

 Other activities campus supervision,  
 notice for internal examination.

  
 Signature of the Lecturer

## DAILY RECORD

Date: 29/01/2020

 DAY: wednesday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	Six B.Sc.	Practical	Study of epidermal tissue Study of Tetrasporangiate Study of types of ovule.	System Author

 Book referred Botany Practical by Borden & Kumar

 Other activities Botanical Garden maintenance

  
Signature of the Lecturer

## DAILY RECORD

Date: 30/01/2020

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	Six B.Sc.	Practical	Study of epidermal tissue system Study of Tetrasporangiate Author Study of types of ovule	

 Book referred Botany Practical by Borden & Kumar

 Other activities Botanical Garden maintenance

  
Signature of the Lecturer

## DAILY RECORD

Date: 31/1/2020

DAY: Friday

Time	Class	Topic	Points covered	Remarks
12:40 to 12:25	TXBx	-	Sugar cane Origin & history Sources Uses.	

 Book referred Economic Botany by S.C. Kochhar

 Other activities Campus supervision

  
 Signature of the Lecturer

## DAILY RECORD

Date: 01/02/2020

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
12:40 to 12:25	TXBx	-	Economic Botany <u>Artes monosperma</u> F. fabaceae origin & history Economic uses.	
1:10 to 1:55	SXBx	-	Anomalous Secondary growth in Raphanus Root. + Dracaena Stem.	

 Book referred Economic Botany Verma V.

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 03/02/2020

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 to 11:40	T.X.B.S.	- Economic Botany	- Rose <u>Rose</u> L. Family - Rosaceae Origin & history Uses of Rose	

 Book referred Economic Botany by S.L. Kochhar

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 05/02/2020

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:45 to 1:45	M.Sc. I	Order - Magnoliales	- Distinguishing characters - External and internal morphology - Reproduction - Gametophyte - Sex organs	

 Book referred Pteridophyte by Vashishtha

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 06/02/2020

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55 to 1:55	S.Y.D	Sc. <u>Practical</u>	- study of plant family - Rubiaceae - Anacardiaceae	

Book referred Practical Botany by Bendoric & Kumar

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 07/02/2020

DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 to 12:25	T.Y.B.Sc.	<u>Roses</u>	<u>Uses</u> ① Ornamental plants ② Perfumes ③ cosmetics ④ Art + symbolism	

Book referred Economic Botany by S.C. Kochler

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 13/03/2020

DAY: Friday

Time	Class	Topic	Points covered	Remarks
12.00 to 1.30	M.Sc. I	order	<u>Marsipiales</u> Gametophyte. Life cycle  order - <u>Asmundales</u> - sporophyte - structure & reproduction.	

Book referred pteridophyte by S. Chand  
vashishtha

Other activities Campus supervision

  
Signature of the Lecturer

"Education through self help is our motto" - Karmaveer



Rayat Shikshan Sanstha's

S. S. G. M. Science, Gautam Arts & Sanjivani  
Commerce College, Kopargaon. Dist. - Ahmednagar

**TEACHER'S DIARY**

( YEAR : 2020-2021 )

Name of the Lecturer Dr. Yeshwant Madhav Radhakisan

Subject English

Shriram, 7588693955



S. S. G. M. Science, Gautam Arts & Sanjivani Commerce College,  
Kopargeon. Dist.- Ahmednagar

**PERSONAL RECORD**

Name in full : Madhav Radhakisan Yeshwant  
Qualification : M.A. SET, Ph.D.  
Department : English Designation : Assistant Professor  
Date of appointment : 6/12/2006 Present grade : \_\_\_\_\_  
Residential address : A/P: Bhende BK, Tali: Newasa, Dist: Ahmednagar Pin: 414605  
Phone number : 

9	8	2	2	7	9	4	9	9	2
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 Blood group : 

A <sup>+</sup>
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Chairman / Member of committees of the college / University

Sr. No.	Name of the Committee	Chairman / Member
1.	IQAC/NAAC	Co-Coordinator
2.	Cultural Activities	Member
3.	Discipline Committee	Member
4.	Competitive Examination Centre	Coordinator
5.	Committee for MPSC/UPSC Coaching	Chairman
6.	Literary Association	Member
7.	Short Term Courses/ Soft Skills	Member
8.	College Canteen	Member

### Allotment of Work ( I - Term)

Sr. No.	Class	Theory / Practical Paper No.	Title	Work load
1	F.Y.B.Com	Theory English Com.	Pearls of Wisdom	04
2	F.Y.B.Com	Theory English Addi		04
3	S.Y.B.A.	Theory English Com.		04
4	S.Y.B.A.	Theory English S.2		04
5	T.Y.B.A.	Theory English S.3		04

### Allotment of Work ( II - Term)

Sr. No.	Class	Theory / Practical Paper No.	Title	Work load
1	F.Y.B.Com	Theory English Com.	Pearls of Wisdom	04
2	F.Y.B.Com	Theory English Addi		04
3	S.Y.B.A.	Theory English Com.		04
4	S.Y.B.A.	Theory English S.2		04
5	T.Y.B.A.	Theory English S.3		04

### Monthly Report

Sr. No.	Month	Teachers Signature	Remark	Sign. of Head of the department
1	September	<u>MP Heshward</u>	Completed as per plan	
2	October	<u>MP Heshward</u>	Completed as per plan	
3	November	<u>MP Heshward</u>	Completed as per plan	
4	December	<u>MP Heshward</u>	Completed as per plan	
5	February	<u>MP Heshward</u>	Completed as per plan	
6	March	<u>MP Heshward</u>	Completed as per plan	
7	April	<u>MP Heshward</u>	Completed as per plan	
8	May	<u>MP Heshward</u>	Completed as per plan	

MP Heshward  
Signature  
of the faculty incharge



SMI  
Head  
Department of English

SPT  
Principal

Teaching Plan (I/II<sup>nd</sup> Term)

Class F.Y.B.Com Subject English Compulsory Paper Year 2020-21  
 Name of the teacher Dr. Yashwant Madhav Bodhakisan  
 No. of working days available \_\_\_\_\_ No. of periods available \_\_\_\_\_

		Topics according to University Syllabus
Month	<u>September 2020</u>	Prose Unit 1 The Beggar - Anton Chekhov
Working days		
Periods available	12	Unit 2 Black Money and the Black Economy - C. Ramdas
Periods required	12	
Month	<u>October 2020</u>	Unit 3 The Nightingale and the Rose - Oscar Wilde
Working days		Unit 4 Muhammad Yunus: An Economist for Peace - Farida Khan
Periods available	16	Unit 5 Up-Hill - Christina Rossetti
Periods required	16	
Month	<u>November 2020</u>	Unit 2 Stay Calm - Greenville Kleiser
Working days		Communication and Life Skills
Periods available	12	Unit 1 Meeting and Greeting People and Dialogues
Periods required	12	Unit 2 Group Discussions and Interviews and Interviewing Skills
Month	<u>December 2020</u>	Unit 3 Presentation Skills
Working days		
Periods available	5	
Periods required	5	

Dr. Yashwant  
Teachers Signature

Date: 8/9/2020

SULLIET  
Head,  
Department of English  
Dept. of English  
S.S.G.N. College, Kopergaon

Teaching Plan (I/II<sup>nd</sup> Term)

Class F.Y.B.Com Subject English Additional Paper Year 2020-21  
 Name of the teacher Dr. Yashwant Madhav Bodhakisan  
 No. of working days available \_\_\_\_\_ No. of periods available \_\_\_\_\_

		Topics according to University Syllabus
Month	<u>September 2020</u>	Unit - I 1. The Sporting Spirit - George Orwell
Working days		
Periods available	12	
Periods required	12	
Month	<u>October 2020</u>	Unit - I 2. The World is Too Much with Us - William Wordsworth
Working days		Unit II 1. Do Insects Think? - Robert Bentley
Periods available	16	2. The Fortune Teller - Joseph Furtado
Periods required	16	
Month	<u>November 2020</u>	Unit - III 1. Good Manners - J.C. Hill
Working days		2. Where the Mind is without Fear - Rabindranath Tagore
Periods available	13	
Periods required	13	
Month	<u>December 2020</u>	Unit - II 1. My Financial Career - Stephen Leacock
Working days		2. I Sit and Look Out - Walt Whitman
Periods available	06	
Periods required	06	

Dr. Yashwant  
Teachers Signature

Date: 8/9/2020

SULLIET  
Head,  
Department of English  
Dept. of English  
S.S.G.N. College, Kopergaon

### Time Table (I-Term)

Sr. No.	Time	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
1.	7:45 to 8:30			P.Y.B.Com	S.Y.B.A.	P.Y.B.Com	T.Y.B.A.
2.	8:30 to 9:15	S.Y.B.A.	S.Y.B.A.	Addi.Sing.	English 2.2	Addi.Sing.	English 2.2
3.	9:15 to 10:00	Comm.English	Comm.English	English 2.1	English 2.2	Comm.English	Comm.English
4.	10:00 to 10:35	P.Y.B.Com	S.Y.B.A.	P.Y.B.Com	P.Y.B.Com	P.Y.B.Com	P.Y.B.Com
5.	10:35 to 11:20	Comm.English	S.Y.B.A.	English 2.2	Comm.English	Comm.English	Comm.English
6.	11:20 to 12:05				P.Y.B.Com	S.Y.B.A.	P.Y.B.Com
7.					Addi.Sing.	English 2.2	Addi.Sing.
8.							T.Y.B.A.
9.							English 2.1

### Time Table (II-Term)

Sr. No.	Time	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
1.	7:45 to 8:30			P.Y.B.Com	S.Y.B.A.	P.Y.B.Com	T.Y.B.A.
2.	8:30 to 9:15	S.Y.B.A.	S.Y.B.A.	Addi.English	English 2.1	Addi.English	English 2.1
3.	9:15 to 10:00	Comm.Eng.	Comm.Eng.	English 2.1	English 2.2	Comm.Eng.	Comm.Eng.
4.	10:00 to 10:35	P.Y.B.Com	S.Y.B.A.	P.Y.B.Com	P.Y.B.Com	P.Y.B.Com	P.Y.B.Com
5.	10:35 to 11:20	Comm.Eng.	Eng. 2.2	Comm.Eng.	Comm.Eng.	English 2.2	Comm.English
6.	11:20 to 12:05				P.Y.B.Com	S.Y.B.A.	P.Y.B.Com
7.					Addi.Sing.	English 2.2	Addi.Sing.
8.							T.Y.B.A.
9.							English 2.1

### Teaching Plain (I/II Term)

Class S.Y.B.A. Subject English Compulsory Paper Year 2023-24

Name of the teacher Dr. Yashwant Madhav Radhakrishnan

No. of working days available \_\_\_\_\_ No. of periods available \_\_\_\_\_

		Topics according to University Syllabus
Month	<u>September</u> 2023	Unit I: Prose 1. A Simple Philosophy - Scott 2. The Homecoming - Rabindranath Tagore
Working days		
Periods available	11	3. The Vengor - Sri Somnath Maughan
Periods required	11	Unit II: Poetry 1) Patagonian Deserts - Sarojini Mohan
Month	<u>October</u> 2023	2. On the Grasshopper and Cricket - John Keats 3. Pied Beauty - Gerard Manley Hopkins
Working days		
Periods available	15	Unit III: Grammar
Periods required	15	1. The Passive Voice 2. Direct and Indirect Speech
Month	<u>November</u> 2023	3. Negative sentences
Working days		Unit IV: Vocabulary
Periods available	13	1. One word Substitutes
Periods required	13	2. Idioms 3. Prefixes and Suffixes
Month	<u>December</u> 2023	Unit V: Soft Skills
Working days		1. Leadership Skills 2. Teamwork Skills
Periods available	05	
Periods required	05	

Yashwant Madhav  
Teacher's Signature

Date: 8/1/2023

S.M. (181)  
Head  
Department of English  
Dept. of English  
S.S.G.M. College, Kopergaon

Teaching Plan (1/H<sup>th</sup> Term)Class S.Y.B.A. Subject English Spl. 2 Paper \_\_\_\_\_ Year 2020-21Name of the teacher Dr. Yashwant Madhav Radhakrishnan

No. of working days available \_\_\_\_\_ No. of periods available \_\_\_\_\_

		Topics according to University Syllabus
Month	<u>September 2020</u>	A) Theory of Poetry 1) What is poetry? Significant developments of the art of poetry during the periods B) Elements of Poetry C) Figures of Speech
Working days		
Periods available	<u>11</u>	
Periods required	<u>11</u>	
Month	<u>October 2020</u>	D) Types of Poetry 1) The Nightingale or Philomela 2) Sonnet 3 3) The Sun Rising
Working days		
Periods available	<u>16</u>	
Periods required	<u>16</u>	
Month	<u>November 2020</u>	4) London 5) Ode on a Grecian Urn 6) To a Skylark
Working days		
Periods available	<u>14</u>	
Periods required	<u>14</u>	
Month	<u>December 2020</u>	A) Theory of Poetry a, b, c, d B) Poems 1, 2, 3, 4, 5, 6
Working days		
Periods available	<u>07</u>	
Periods required	<u>07</u>	

Dr. Yashwant Madhav Radhakrishnan  
 Teachers Signature

Date: 8/9/2020

SUNIL K. J.  
 Head,  
 Department of English  
 Head  
 Dept. of English  
 S.S.G.M. College, Kopergaon

Teaching Plan (1/H<sup>th</sup> Term)Class T.Y.B.A. Subject English Spl. 3 Paper \_\_\_\_\_ Year 2020-21Name of the teacher Dr. Yashwant Madhav Radhakrishnan

No. of working days available \_\_\_\_\_ No. of periods available \_\_\_\_\_

		Topics according to University Syllabus
Month	<u>September 2020</u>	A) Theory of Novel 1) Definition of Novel History of Novel Origin, 18 <sup>th</sup> , 19 <sup>th</sup> , 20 <sup>th</sup> c., Present 2) Elements of Novel Plot
Working days		
Periods available	<u>12</u>	
Periods required	<u>12</u>	
Month	<u>October 2020</u>	3) Elements of Novel structure, character, narrative techniques, Point of View, Theme, Conflict, Dialogue, Setting & Atmosphere 4) Types of Novel 1) Definitive, 2) Picaresque, 3) Historical, 4) Psychological, 5) Bildungsroman
Working days		
Periods available	<u>17</u>	
Periods required	<u>17</u>	
Month	<u>November 2020</u>	6) Regional, 7) Satirical, 8) Realistic, 9) Experimental, 10) Science Fiction 11) Other Literary Terms 12) Animal Farm - about the author - Background Plot Overview - Chapter 1 to 12 - Critical Analysis - Characters - Allegory
Working days		
Periods available	<u>13</u>	
Periods required	<u>13</u>	
Month	<u>December 2020</u>	
Working days		
Periods available	<u>06</u>	
Periods required	<u>06</u>	

Dr. Yashwant Madhav Radhakrishnan  
 Teachers Signature

Date: 8/9/2020

SUNIL K. J.  
 Head,  
 Department of English  
 Dept. of English  
 S.S.G.M. College, Kopergaon

## Teaching Plan (I/II - Term)

Class F.Y.B.Com Subject English ~~Additional~~ Paper Compulsory Year 2020-21Name of the teacher Dr. Yashwant Madhukar Radhakrishnan

No. of working days available \_\_\_\_\_ No. of periods available \_\_\_\_\_

		Topics according to University Syllabus
Month	<u>February</u> <u>2021</u>	<u>Poem</u>
Working days		<u>Unit 1 Justice Nayagi: A Corporate Giant</u>
Periods available	<u>07</u>	<u>Unit 2 Appro IRD</u>
Periods required	<u>07</u>	<u>- Sudha Murthy</u>
Month	<u>March</u> <u>2021</u>	<u>Unit 3 Fur - Sabi</u>
Working days		<u>Unit 4 After Twenty Years</u>
Periods available	<u>16</u>	<u>- O. Henry</u>
Periods required	<u>16</u>	<u>Poetry</u>
Month	<u>April</u> <u>2021</u>	<u>Unit 1 O Captain! My Captain!</u>
Working days		<u>Walt Whitman</u>
Periods available	<u>19</u>	<u>Unit 2 A Prayer for My Daughter</u>
Periods required	<u>19</u>	<u>- W.B. Yeats</u>
Month	<u>May</u> <u>2021</u>	<u>Unit 1 Letter Writing</u>
Working days		<u>Unit 2 Report Writing</u>
Periods available	<u>09</u>	<u>Unit 3 Essay Writing</u>
Periods required	<u>09</u>	<u>Unit 4 Non-verbal Communication</u>

Dr. Yashwant Madhukar Radhakrishnan  
 Teachers Signature  
 Date: 15/7/2021

SUNDEEP  
 Head,  
 Department of English  
 Dept. of English  
 S.S.G.M. College, Kopergaon

## Teaching Plan (I/II - Term)

Class F.Y.B.Com Subject English Additional Paper Year 2020-21Name of the teacher Dr. Yashwant Madhukar Radhakrishnan

No. of working days available \_\_\_\_\_ No. of periods available \_\_\_\_\_

		Topics according to University Syllabus
Month	<u>February</u> <u>2021</u>	<u>Unit - I</u>
Working days		<u>D Playing the English Gentleman</u>
Periods available	<u>07</u>	<u>- M.K. Gandhi</u>
Periods required	<u>07</u>	<u>3) All the World's a Stage</u>
Month	<u>March</u> <u>2021</u>	<u>Unit - II</u>
Working days		<u>D How Wealth Accumulates and How Decays</u>
Periods available	<u>16</u>	<u>- G.B. Shaw</u>
Periods required	<u>16</u>	<u>3) My Grandmother's House</u>
Month	<u>April</u> <u>2021</u>	<u>Unit - III</u>
Working days		<u>D The Open Window</u>
Periods available	<u>15</u>	<u>- Sabi</u>
Periods required	<u>15</u>	<u>3) Laugh and Be Merry</u>
Month	<u>May</u> <u>2021</u>	<u>Unit - IV</u>
Working days		<u>D The Pleasures of Ignorance</u>
Periods available	<u>10</u>	<u>- Robert Lynd</u>
Periods required	<u>10</u>	<u>3) Two Daffodils</u>
		<u>- Robert Herrick</u>

Dr. Yashwant Madhukar Radhakrishnan  
 Teachers Signature  
 Date: 15/7/2021

SUNDEEP  
 Head,  
 Department of English  
 S.S.G.M. College, Kopergaon

## Teaching Plan (17 II - Term)

Class S.Y.B.A. Subject English Compulsory Paper Year 2021-22  
 Name of the teacher Dr. Yashwant Madhar Padhakisan  
 No. of working days available \_\_\_\_\_ No. of periods available \_\_\_\_\_

		Topics according to University Syllabus
Month	<u>February</u> <u>2022</u>	Unit I: Prose 1. The Chicago Speech - Sami Vindananda
Working days		2. The Lottery Ticket - Anton Chekhov
Periods available	<u>06</u>	3. The Open Window - Hester Hugh Munro
Periods required	<u>06</u>	Unit II: Poetry 1. On Another's Sorrow - William Blake
Month	<u>March</u> <u>2022</u>	2. Laugh and Be Merry - John Macaulfield
Working days		3. The Rock and the Bubble - Louisa May Alcott
Periods available	<u>17</u>	Unit III: Grammar - Louisa May Alcott
Periods required	<u>17</u>	1. Question Tags 2. Simple, Compound and Complex Sentences
Month	<u>April</u> <u>2022</u>	3. Degree of Comparison
Working days		Unit IV: Vocabulary
Periods available	<u>15</u>	1. Collocations: Words that Go Together
Periods required	<u>15</u>	2. Phrasal Verbs 3. Commonly Confused Words
Month	<u>May</u> <u>2022</u>	Unit 5: Soft Skills
Working days		1. Problem-solving Skills
Periods available	<u>09</u>	2. Time Management
Periods required	<u>09</u>	

Class S.Y.B.A. Subject English Spl. 2 Paper 2 Year 2021-22  
 Name of the teacher Dr. Yashwant Madhar Padhakisan  
 No. of working days available \_\_\_\_\_ No. of periods available \_\_\_\_\_

		Topics according to University Syllabus
Month	<u>February</u> <u>2022</u>	1. My Last Duchess - Robert Browning
Working days		2. Sailing to Byzantium - W.B. Yeats
Periods available	<u>06</u>	3. Futility - Wilfred Owen
Periods required	<u>06</u>	
Month	<u>March</u> <u>2022</u>	4. A Bird Came Down the Walk - Emily Dickinson
Working days		5. Talking in Their Sleep - Edith M. Thomas
Periods available	<u>16</u>	6. What is Life - John Clare
Periods required	<u>16</u>	
Month	<u>April</u> <u>2022</u>	7. Sympathy - Paul Laurence Dunbar
Working days		8. The Awakening - James Haddon Johnson
Periods available	<u>16</u>	9. The Blind - Amy Lowell
Periods required	<u>16</u>	10. Freedom - Rabindranath Tagore
Month	<u>May</u> <u>2022</u>	11. Caged Bird - Maya Angelou
Working days		12. Space Between - Judith Wright
Periods available	<u>10</u>	
Periods required	<u>10</u>	

M. Padhakisan  
 1st 11/2024  
 Teacher's Signature

SUN 11/21  
 Head  
 Dept. of English

M. Padhakisan  
 Teacher's Signature  
 1st 11/2024

Head  
 Dept. of English  
 S.S.G.C. College, Koperganj

Class T.Y.B.A. Subject English Spl. 3 Paper 3 Year 2020-21Name of the teacher Dr. Yashwant Madhav Radhakrishnan

No. of working days available \_\_\_\_\_ No. of periods available \_\_\_\_\_

		Topics according to University Syllabus
Month	<u>February 2021</u>	① The Old Man and the Sea - Ernest Hemingway ② About the author ③ Background ④ Plot Overview ⑤ Characters ⑥ Day First ⑦ Day Second ⑧ Day Third ⑨ Day Fourth, ⑩ Day Fifth ⑪ Themes, ⑫ Symbols
Working days		
Periods available	<u>08</u>	
Periods required	<u>08</u>	
Month	<u>March 2021</u>	⑬ The Guide ⑭ About the Author, ⑮ Background ⑯ Point of View, Plot Overview ⑰ Characters ⑱ Part 1 ⑲ Part 2 ⑳ Part 3 ㉑ Part 4 ㉒ Part 5, ㉓ Part 6, ㉔ Part 7, ㉕ Part 8 ㉖ Part 9 ㉗ Part 10 ㉘ Part 11 ㉙ Themes ㉚ Symbols
Working days		
Periods available	<u>16</u>	
Periods required	<u>16</u>	
Month	<u>April 2021</u>	⑰ Characters ⑱ Part 1 ⑲ Part 2 ⑳ Part 3 ㉑ Part 4 ㉒ Part 5, ㉓ Part 6, ㉔ Part 7, ㉕ Part 8 ㉖ Part 9 ㉗ Part 10 ㉘ Part 11 ㉙ Themes ㉚ Symbols
Working days		
Periods available	<u>15</u>	
Periods required	<u>15</u>	
Month	<u>May 2021</u>	⑰ Characters ⑱ Part 1 ⑲ Part 2 ⑳ Part 3 ㉑ Part 4 ㉒ Part 5, ㉓ Part 6, ㉔ Part 7, ㉕ Part 8 ㉖ Part 9 ㉗ Part 10 ㉘ Part 11 ㉙ Themes ㉚ Symbols
Working days		
Periods available	<u>09</u>	
Periods required	<u>09</u>	

Teachers Signature

11/1/2021Head  
Dept. of English

## Teaching Plan (I / II - Term)

Class \_\_\_\_\_ Subject \_\_\_\_\_ Paper \_\_\_\_\_ Year \_\_\_\_\_

Name of the teacher \_\_\_\_\_

No. of working days available \_\_\_\_\_ No. of periods available \_\_\_\_\_

		Topics according to University Syllabus
Month		
Working days		
Periods available		
Periods required		
Month		
Working days		
Periods available		
Periods required		
Month		
Working days		
Periods available		
Periods required		
Month		
Working days		
Periods available		
Periods required		

Teachers Signature

Date: / /201

Head,  
Department of \_\_\_\_\_



# DAILY RECORD

Date: 10/09/2020

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 2:45 to 3:30	SYBA English Spl. 2	A Theory of Poetry	a. What is poetry? Significant development of art of poetry during the period	
② 8:30 to 9:15	SYBA English Spl. 5	A Theory of novel	a. What is Novel? Significant development of 'novel' during the period. Defining Novel: F. Maxon Crawford - 'a pocket theatre'. Meredith 'a summary of actual life'.	
③ 9:15 to 10:00	SYBA Gen. English	Unit I Prose	The Beggar About the author: Anton Chekhov (1860-1904) He wrote 800 short stories. About the text: - Themes of sympathy, kindness, compassion	
④ 10:10 to 10:55	SYBA Add. English	Unit I	1. The Sporting Spirit About the author: George Orwell British Author - Eric Arthur Blair (1904-1950) born in Bengal - describable few of British imperialism in the subcontinent. Animal Farm: Nineteen Eighty Four	

Book referred ① Mirage: An Anthology of English Poetry  
② E. M. Forster: Aspects of Novel  
③ Success Avenue

Other activities ④ Pearls of Wisdom: An Anthology of Prose and Poetry

Signature of the Lecturer

Head  
Dept. of English  
S.S.G.M. College, Kopergaon

# DAILY RECORD

Date: 11/09/2020

DAY: Friday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	SYBA Add. English	Unit I	1. The Sporting Spirit About the text: - An Anti-sport standpoint. Sports of international level, hardly promotes good-will, or friendliness between nations.	
② 8:30 to 9:15	SYBA Gen. English	Unit I Prose	1. A Simple Philosophy About the author and text: - Seath - the chief of the state American Requeanish tribe of the state of Washington - the letter to President Franklin	
③ 9:45 to 10:00	SYBA Gen. English	Unit I Prose	The Beggar The beggar lies about his identity in order to extract money from a lawyer, but ends up confessing to him instead. It follows that his life has been in one course or another.	
④ 10:10 to 10:55	SYBA English Spl. 2	A Theory of Poetry	① What is poetry? Significant development of art of poetry during the period. Definition of Poetry: Introduction - primary form of language an ancient mode of expression applicable to orations, didactic discourses.	

Book referred ① Pearls of Wisdom: An Anthology of Prose and Poetry  
② Panorama: Values and Skills through English Literature  
③ Success Avenue

Other activities ④ Mirage: An Anthology of English Poetry

Signature of the Lecturer

## DAILY RECORD

Date: 12/09/2018

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
2:45 to 3:30	TYBA English Spl.3	A Theory of Novel	① What is Novel? Significant development of 'Novel' during the period - History - The Origin	
3:30 to 3:45	SYBA Com. English	Unit I Prose	L.A Simple Philosophy How can you buy or sell the sky, the white men must break the hearts of this land as the beggars.	
3:45 to 10:00	FR500 Com. English	Unit I Prose	The Beggar Sivertson, a Petersburg labor happened to meet a beggar. He recognized him that he was not only a beggar but Upper Sivertson's child.	
10:10 to 10:55	FR500 Add. English	Unit I	The Sporting Spirit. Example of the Dynamo football team. Newspapers - bad feeling Arsenal team	
11:45 to 12:25	TYBA English Spl.3	A Theory of Novel	② What is Novel? Significant development of 'Novel' during the period. History - Medieval romance, a fantastic tale of love and adventure - a story in prose, series of stories of the legendary quest for the Holy Grail	

- Book referred
- ① E. M. Foster: Aspects of the Novel.
  - ② Panorama: Values and Skills through Literature
  - ③ Success Avenue
- Other activities
- ① Pearls of Wisdom: An Anthology of Prose and Poetry

Prakash  
Signature of the Lecturer

## DAILY RECORD

Date: 14/09/2018

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
8:30 to 9:15	SYBA Com. English	Unit I Prose	L.A Simple Philosophy Our God is the same God. To harm the earth is to harm oneself on its Creator. Comprehension A. Answer the following questions in one sentence each. B. Answer the following questions in about 30-40 words. C. Answer the following questions in about 100 words.	
9:15 to 10:00	FR500 Com. English	Unit I Prose	The Beggar Glossary, Comprehension A. Read the following extract and answer the questions given below. B. Answer the following questions in one sentence each. C. Answer the following questions in 20-40 words each. D. Answer the following questions in about 100 words each. E. Attempt a character sketch of Sivertson.	

- Book referred
- ① Panorama Values and skills through Literature
  - ② Success Avenue

Other activities

Prakash  
Signature of the Lecturer

## DAILY RECORD

Date: 16/09/2010

 DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	S.Y.B.A. Com. English	Unit I Prose	The Homecoming About the author, Rabindranath Tagore. (1861-1941) Bengali poet, musician, playwright. The Nobel Prize - 1913 Writing story for the poor, wise vs. human values About the story - Tragic tale of Phatik - the boy's journey from his village home and family to the city, Calcutta.	
② 9:15 to 10:00	S.Y.B.A. English Sp. 2	A. Theory of Poetry	① What is poetry? Significant development of the art of poetry during the period Ancient Poetry - Classical and Latin poetry - the blind poet Homer - Iliad and Odyssey Medieval Poetry - 15th century A.D. Anonymous poetry, Beowulf (675 and 850 AD) Vernacular forms of religious, narrative and allegorical poetry, Geoffrey Chaucer, John Gower, William Langland, Petrarch	

Book referred ① Panorama: Values and Skills through Literature

② Mirage: An Anthology of English Poetry

Other activities

M. B. Chaudhary  
Signature of the Lecturer

## DAILY RECORD

Date: 16/09/2010

 DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	P.Y.B.A. Add. English	Unit I	1. The Sporting Spirit International sporting contests lead to tragedies of hatred Sports are competitive. A minute of warfare - the attitude of spectators. Examples of boxing	
② 8:30 to 9:15	P.Y.B.A. English Sp. 3	A. Theory of Novel	① What is Novel? Significant development of the novel during the period Novel during 18th century Henry Fielding's novels - satirical, comic. Smollett - picaresque novels - adventures of wandering hero. Sterne's novels - whimsical	
③ 9:15 to 10:00	S.Y.B.A. English Sp. 2	A. Theory of Poetry	② What is poetry? Significant development of art of poetry during the period Renaissance poetry - revival of interest in classical culture William Shakespeare, Edmund Spenser, Sir Philip Sidney Metaphysical poetry - John Donne, Henry King, Herbert Neoplatonic poetry, Romantic poetry	

Book referred ① Pearls of Wisdom: An Anthology of Prose and Poetry

 ② E. M. Forster: Aspects of Novel  
 ③ Mirage: An Anthology of Poetry

Other activities

P. B. Chaudhary  
Signature of the Lecturer

## DAILY RECORD

Date: 17/09/2010

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	SYBA English Spl. 2	A Theory of Poetry	① Elements of Poetry 1) Rhythmic: the flow of sound 2) Quantitative Rhythmic: length 3) Accented Rhythmic: 'acceded' 4) Syllabic Rhythmic: number 5) Accented-Syllabic Rhythmic	
② 8:30 to 9:15	TYBA English Top 5	A Theory of Novel	① What is Novel? Significant developments of the 'novel' during the period The 19th C. novel - Jane Austen, novels of sentimentalism, supernatural terror, frontier stories -	
③ 9:15 to 10:00	TYBA Com. English	Unit 2 Prose	Black Money and the Black Economy About the author: C. Ramaswami Reddy, an economist. Agriculture, trade, Demarcation and Black Money - about the author	
④ 10:10 to 10:55	TYBA English Addl. English	Unit I	1. The Sporting Spirit How and why modern cult of Sport arose. Games of ancient origin. Roman times 8th C. How Games are a healthy, financial activity - attracting vast crowds, making savage religions.	

Book referred  
 ① Mircea: An Anthology of English Poetry  
 ② E. M. Forster: Aspects of Novel  
 ③ Success Avenue

Other activities  
 ④ Pearls of Wisdom: An Anthology of Prose and Poetry

M. B. Chand

Signature of the Lecturer

## DAILY RECORD

Date: 18/09/2010

 DAY: Friday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	TYBA English	Unit I	1. The Sporting Spirit Glossary: Comprehension A. Choose the best option out of the following 1. a, b, c, d 2. a and d with their answers	
② 8:30 to 9:15	TYBA Com. English	Unit I Prose	2. The Homecoming Phatik Chatterjee - single son, Mathan, his brother. Phatik's desire to go to Calcutta His acquaintance of his uncle His condition at school, his illness	
③ 9:15 to 10:00	TYBA Com. English	Unit 2 Prose	Black Money and Black Economy Black money / Black Income - Two different processes - illegal activities, legal activities which taxes are not paid	
④ 10:10 to 10:55	SYBA English Spl. 2	A Theory of Poetry	① Elements of Poetry 1) Metre: - the number of syllabic units in a line. 2) Iambus, 3) Anapaest 4) Trochee, 5) Dactyle 6) Amphiphon Types of Metre: 1) Dimeter, 2) Trimeter, 3) Tetrameter, 4) Pentameter	

Book referred  
 ① Pearls of Wisdom: An Anthology of Prose and Poetry  
 ② Panorama: Values and Skills through Literature  
 ③ Success Avenue  
 ④ Mircea: An Anthology of English Poetry

Other activities

M. B. Chand

Signature of the Lecturer

## DAILY RECORD

Date: 19/09/2010

 DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 2:45 to 3:30	SYBA English Spl. 3	A-Theory of Novel.	① What is Novel? Significant developments of the 'Novel' during the period - 20 <sup>th</sup> & 19 <sup>th</sup> century.	
② 8:30 to 9:15	SYBA Com. English	Unit I Prose	2. The Homecoming Phobias desire to go to his village. Glossary, Comprehension & Answer the questions in one sentence.	
③ 9:15 to 10:00	FRBA Com. English	Unit 2 Prose	Black Money and Black Economy Interchangeability of the black and the white - 2 very scenes Example of a real estate dealer - Joe who collect cash without receipt	
④ 10:10 to 10:55	PKBA Add. English	Unit I	2. The World is Too Much with Us William Wordsworth (1770-1850) lived with his sister Dorothy & close to his friend S. T. Coleridge Great poems	
⑤ 11:40 to 12:15	SYBA English Spl. 3	A-Theory of Novel.	③ Elements of Novel Plot - Definition - The organic unity of all the actions, incidents, speeches, thoughts. A Map of action, cause & effect Simple plot - cause & effect Complex plot - Anagnorisis, Peripeteia	

 Book referred: ① F. M. Foster: Aspects of the Novel  
 ② Panorama: Values and Skills through Literature  
 ③ Success Avenue

Other activities: ④ Pearls of Wisdom: An Anthology of Prose and Poetry

J. P. Kishore  
Signature of the Lecturer

## DAILY RECORD

Date: 20/09/2010

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	SYBA Com. English	Unit I Prose	2. The Verger About the author - Willaow Somerset Maugham (1874-1965) Novelist, short story writer, and playwright About the story: Compassion for human weakness. Expects 'education' institution. The Verger has no formal education, but several problem solving skills, problem into opportunity for growth.	
② 9:15 to 10:00	FRBA Com. English	Unit 2 Prose	Black Money and Black Economy Glossary, Comprehension A. Read the following extract and answer the questions given below B. Answer the following questions in one sentence each. C. Answer the following questions in 30-40 words each. D. Answer the following questions in 150 words each. Discussion about answers	

Book referred: ① Panorama: Values and Skills through Literature

② Success Avenue

Other activities

J. P. Kishore  
Signature of the Lecturer

## DAILY RECORD

Date: 23/09/2010

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	FYBA Addl English	Unit I	2. The World is Too Much with Us About the poem - Poetry - universal appeal. Poetry - the most philosophical of all writing. Its object is truth - conveys alive into the heart by passion	
② 8:30 to 9:15	FYBA English Spl. 3	A. Theory of Novel	① Elements of Novel ii) Structure - The way of assembling the plot. Theme takes causes their effects. Chronological order. Flash back system	
③ 9:15 to 10:00	FYBA English Spl. 2	A. Theory of Poetry	⑤ Elements of poetry iii) Sound Structure - The sound of a poem determines our emotional and imaginative response. The sound effects in a poem is created by certain interlocking words within a line or among lines. This is called as rhyme. Moreover, when the initial sound of two or more words is repeated it is called as alliteration. And when there is similarity in vowel sounds.	

Book referred: ① Pearl of Wisdom: An Anthology of Prose and Poetry  
② E.M. Forster: Aspects of Novel  
③ Mirage: An Anthology of English Poetry

Other activities

T. H. Salim  
Signature of the Lecturer

## DAILY RECORD

Date: 24/09/2010

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 2:45 to 3:30	FYBA English Spl. 2	A. Theory of Poetry	⑥ Elements of Poetry iv) Form - Lines of similar structure and length are brought together. ① Couplet - 2 lines, ② Triplet - 3 lines, ③ Quatrain - 4 lines, ④ Heroic couplet.	
② 8:30 to 9:15	FYBA English Spl. 3	A. Theory of Novel	⑥ Elements of Novel iii) Character - a reasonable facsimile of a human being with all good & bad traits. Types of character - flat character, Round character, dynamic character.	
③ 9:15 to 10:00	FYBA Com. English	Unit 3 Prose	The Nightingale and the Rose About the author - Oscar Wilde (1854-1900) a versatile Irish writer of great wit and brilliance. About the text - tragically beautiful story.	
④ 10:10 to 10:55	FYBA Addl English	Unit I	2. The World is Too Much with Us Poetry - explanation Glossary - Human beings in the world But miss the company of the world in material things.	

Book referred: ① Mirage: An Anthology of English Poetry  
② E.M. Forster: Aspects of Novel  
③ Success Avenue

Other activities: ④ Pearl of Wisdom: An Anthology of Prose and Poetry

T. H. Salim  
Signature of the Lecturer

# DAILY RECORD

Date: 25/09/2010

DAY: Friday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:20	TYBA Add. English	Unit I	2. The World is Too Much with Us Comprehension: A. Write short answers to the following questions. B. Answer each of the following questions in not more than 100 words.	
② 8:30 to 9:15	TYBA Com. English	Unit I Prose	3. The Verger Setting of the story - a church Verger's duties - for the vicar New vicar's attitude for church Ultimatum for the verger - Unimpeachable character	
③ 9:15 to 10:00	TYBA Com. English	Unit 3 Prose	The Nightingale and the Rose The young student wanted to give a gift to his beloved but there was no real rose. The Nightingale thinks that it is better to die for his girl.	
④ 10:10 to 10:55	TYBA English Spl. 2	A. Theory of Poetry	① Figures of Speech Different forms of expressions ② Based on similarity ③ Based on simile, metaphors, personification, Allegory, Parable, Metonymy, Simile - with their respective examples	
Book referred	① Pearls of Wisdom: An Anthology of Prose and Poetry ② Panorama: Values and Skills through Literature ③ Success Avenue			
Other activities	① Mirage: An Anthology of English Poetry			

T. B. Shinde  
Signature of the Lecturer

# DAILY RECORD

Date: 26/09/2010

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:20	TYBA English Spl. 2	A. Theory of Novel	① Elements of Novel ② Narrative Technique - mode of presentation by the author. ③ The style of reporting action	
② 8:30 to 9:15	TYBA Com. English	Unit I Prose	3. The Verger His new business of shopkeeper A. Answer the following questions B. Answer the following questions	
③ 9:15 to 10:00	TYBA Com. English	Unit 3 Prose	The Nightingale and the Rose The nightingale wandered from place to place to find a real rose. At last she happened to rest on a thorn at the cost of her life blood.	
④ 10:10 to 10:55	TYBA Add. English	Unit II	1. Do Insects Think? About the author - Robert Charles Benchley (1896-1945) an American humorist, newspaper columnist	
⑤ 11:40 to 12:15	TYBA English Spl. 2	A. Theory of Novel	① Elements of Novel ② Point of view: The way in which the writer knits the story together. The angle of vision from which things are seen, reported and judged. First person and third person narrative	
Book referred	① E. M. Forster: Aspects of the Novel ② Panorama: Values and Skills through Literature ③ Success Avenue			
Other activities	① Pearls of Wisdom: An Anthology of Prose and Poetry			

T. B. Shinde  
Signature of the Lecturer

# DAILY RECORD

Date: 28/09/2010

DAY: Monday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	S.Y.B.A. Com. English	Unit II Poetry	1. Palanquin Bearer About the author - Sarojini Malhotra (1874-1941). Her poetry is the culture of India. can pained against purdah. About the poem: a lyrical poem a palanquin, a bride's journey to her husband's home. like a folk song. The palanquin bearers turn the dreary task of carrying	
② 9:15 to 10:00	F.Y.B.A. Com. English	Unit 3 Prose	The Nightingale and the Rose Classroom Comprehension A. Read the following extract and answer the questions given below. B. Answer the following questions in a sentence each. C. Answer the following questions in 20-40 words each. D. Answer the following questions in 100 words each. Discussion of all three questions along with their possible answers and multiple choice questions.	

Book referred ① Panorama: Values and Skills through Literature

② Success Avenue

Other activities

*J. P. Kulkarni*  
Signature of the Lecturer

# DAILY RECORD

Date: 29/09/2010

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	S.Y.B.A. Com. English	Unit II Poetry	1. Palanquin Bearer The palanquin Bearer suggests how they uphold the bride. How she weeps like a flower. She floats like a laugh. Their feelings for the bride. She hangs like a star in the dew. The bearers on the head of the bride like a tear from the eyes. Comprehension	
② 9:15 to 10:00	S.Y.B.A. English Spl. 2	A. Theory of Poetry	① Figures of Speech a) Based on Contrast:- 1) Antithesis - An explicit contrast 2) Epigram - contradiction with 3) Oxymoron - Two contradictory... 4) Paradox - with innumerable both 5) Climax - Successive steps of ideas 6) Anti-Climax & Ironic descent b) Based on Imagination:- 1) Personification - personified 2) Apostrophe - An address to person 3) Metonymy - Metonymy 4) Prosopopoeia 5) Hyperbole	

Book referred ① Panorama: Values and Skills through Literature

② Mirage: An Anthology of English Poetry

Other activities

*J. P. Kulkarni*  
Signature of the Lecturer



## DAILY RECORD

Date: 30/09/2010

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 2:45 to 3:20	FTBA English	Unit II	1. Do Insects Think? About the text - an essay published in 1929 in Life magazine. Here the writer gleefully mocks the pretentious tone of American science.	
② 3:30 to 5:15	TTBA English Spl.3	A Theory of Novel	⑥ Elements of Novel vi) Theme - The central idea of the novel. Author's perspectives on certain events. vii) Conflict - An opposition of forces, ideas and attitudes. viii) Dialogue - expressions	
③ 5:15 to 10:00	FTBA English Spl.2	A Theory of Poetry	③ Figures of Speech ① Based on Indirectness - 1) Irony - A thing is hidden 2) Irony - saying something but 3) Sarcasm - saying the thing to 4) Periphrasis / Circumlocution - 5) Based on sound - 6) Onomatopoeia - the sound & the 7) Alliteration - repetition 8) Plo / Personification - A play	

Book referred ① Pearls of Wisdom: An Anthology of Prose and Poetry  
② E. M. Forster: Aspects of Novel  
③ Mirage: An Anthology of English Poetry

Other activities



Head  
Dept. of English  
S.S.G.M. College, Kopepalli

  
Signature of the Lecturer

## DAILY RECORD

Date: 01/10/2010

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	FTBA English Spl.2	A Theory of Poetry	② Figures of Speech A) Based on Construction - 1) Zeugma - A verb or an adjective 2) Chiasmus - The word order is 3) Interrogation / Exostasis - 4) Exclamation - The abrupt expression.	
② 8:30 to 9:15	TTBA English Spl.3	A Theory of Novel	② Types of Novel 1) Epistolary novel: written in the form of a series of letters, exchanging among the characters. 2) Picaresque Novel: The novel about a picaresque character, a rascal or a scoundrel. 3) Mubammad Turgut: An Economic for Peace	
③ 9:15 to 10:00	FTBA Com. English	Unit 4 Prose	About the author - favorite than in International Trade Policy About the Text - The great effort made by an economist for peace.	
④ 10:10 to 10:55	FTBA English	Unit II	1. Do Insects Think? Professor Bourner - The Mythical life of Insects - Insects have no intelligence when they behave as if they were like	

Book referred ① Mirage: An Anthology of Poetry  
② E. M. Forster: Aspects of Novel  
③ Success Avenue

Other activities

① Pearls of Wisdom: An Anthology of Prose and Poetry

  
Signature of the Lecturer

## DAILY RECORD

Date: 02/10/2020

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 2:45 to 3:30	PTBA English Spl.3	A. Theory of Novel	② Types of Novel iii) Historical novels - a fictitious story about historical events. It has imaginary characters.	
② 3:30 to 3:45	PTBA Com. English	Unit II Poetry	2. On the Grasshopper and Cricket About the author - John Keats. About the poem - beauty is there	
③ 3:15 to 10:20	PTBA Com. English	Unit 4 Prose	Muhammad Yunus: An Economics for Peace The Bangladesh microcredit pioneer Muhammad Yunus - first economist to win Nobel Peace for peace.	
④ 10:10 to 10:55	PTBA Add. English	Unit II	1. Do Insects Think? The summer of 1899 at a cottage in the Adirondacks - "his breath to leave laugh?"	
⑤ 11:40 to 12:25	PTBA English Spl.3	A. Theory of Novel	③ Types of Novel iv) Psychological novels - It is mainly concerned with the thoughts, motives and emotions of the characters rather than their actions. The psychology of the characters is expressed here.	

Book referred  
 ① E.M. Forster: Aspects of the Novel.  
 ② Panorama: Values and Skills through Literature  
 ③ Success Avenue

Other activities  
 ④ Pearls of Wisdom: An Anthology of Prose and Poetry

*M. Dasgupta*  
 - Signature of the Lecturer

## DAILY RECORD

Date: 05/10/2020

DAY: Monday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	PTBA Com. English	Unit II Poetry	2. On the Grasshopper and Cricket The earth - its seasons & poetry Summer - evaporation there is silence but for Grasshopper sing the song. The Cricket's song - depression winter - night - still song of the crickets. Comprehension Answer the following questions	
② 9:15 to 10:00	PTBA Com. English	Unit 4 Prose	Muhammad Yunus: An Economics for Peace His visit to Sofia Khatun, a local woman from the village of Jabra. He lent money to Sofia and for others for their business projects. She received 25 dollars. He established an innovative group-lending system where staggered, collateral interest-free loans to group members who were collectively responsible for repayments.	

Book referred  
 ① Panorama: Values and Skills through Literature  
 ② Success Avenue

Other activities

*M. Dasgupta*  
 Signature of the Lecturer

# DAILY RECORD

Date: 06/10/2019

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 9:30 to 9:45	SYBA Com. English	Unit II Poetry	5. Pied Beauty About the Author: Gerard Manley Hopkins (1844-1889) Poet of religion and nature. intricate imagery, naturalist. About the poem: reverse the traditional notions of beauty, a joyous celebration of the beauty of 'pied' things, a curial stanza- 14 lines.	
② 9:15 to 10:00	SYBA English Spl. 2	A Theory of Poetry	④ Types of Poetry Lyrical Poetry - 'lyre' (a musical instrument) The lyrical poetry was intended to be sung to the accompaniment of a lyre. The lyrical poetry is the words of a song with musical quality. The musical quality of the lyric poems lies in the structures of stanzas, rhyming scheme and rhythm. It reflects intense emotions of poet along with imagination, melody and feelings. Types of lyrical poetry	

Book referred

- ① Panorama: Values and Skills through Literature
- ② Mirage: An Anthology of English Poetry

Other activities

*M. P. Singh*  
Signature of the Lecturer

# DAILY RECORD

Date: 07/10/2019

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	SYBA Addl. English	Unit II	1. Do Insects Think? a wasp - 13/14 years old It was so shy, a female, Miriam - Fudge: One evening in the laboratory, card-catchers scattered	
② 8:30 to 9:15	SYBA English Spl. 3	A Theory of Novel	③ Types of Novel ① Bildungsroman/Novel - A novel of formation, education and culture. It focuses on the psychological and moral growth of the protagonist from youth to adulthood in which character change is important.	
③ 9:15 to 10:00	SYBA English Spl. 2	A Theory of Poetry	④ Types of Poetry Types of lyrical poetry - ① Hymn: A song in praise of gods or great souls with deep religious emotions. ② Ode - A song addressing someone or something with intellectual appeal. ③ Sonnet: A fourteen lines song. ④ Elegy - It is a formal song used as a serious and solemn reflection.	

Book referred

- ① Icons of Wisdom: An Anthology of Prose and Poetry
- ② E.M. Forster: Aspects of Novel
- ③ Mirage: An Anthology of English Poetry

Other activities

*M. P. Singh*  
Signature of the Lecturer

## DAILY RECORD

Date: 3/10/2020

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	SYBA English Spl. 2	A Theory of Poetry	① Types of Poetry i) Dramatic Poetry:- Dramatic poetry employs some features of drama in order to achieve certain poetic effects. Drama - the monologue is an important	
② 8:30 to 9:15	TYBA English Spl. 5	A Theory of Novel	② Types of Novel M) Regional Novel: It demonstrates environmental influences on its inhabitants. N) Satirical Novel: It ridicules a specific topic in order to provoke readability. Muhammad Yunus: An Economics for Peace Glossary Comprehension A. Read the following extract and answer the questions given below. B. Answer the following questions.	
③ 9:15 to 10:00	TYBA Com English	Unit 4 Prose	Economics for Peace Glossary Comprehension A. Read the following extract and answer the questions given below. B. Answer the following questions.	
④ 10:10 to 10:55	TYBA Add. English Spl. 2	Unit II	1. Do Insects Think? Glossary Comprehension A. Choose the best option in each of the following. B. Answer each of the following in a sentence or two. C. Answer in 100 words or so.	

Book referred  
 ① Mirage: An Anthology of English Poetry.  
 ② E. M. Forster: Aspects of Novel.  
 ③ Success Avenue.

Other activities  
 ① Pearls of Wisdom: An Anthology of Prose and Poetry

P. P. Kulkarni  
 - Signature of the Lecturer

## DAILY RECORD

Date: 09/10/2020

 DAY: Friday

Time	Class	Topic	Points covered	Remarks
① 2:45 to 3:30	TYBA Add. English	Unit II	2. The Fortune Teller About the author - Indian writer in English, born in Bombay, Goa on 24 April 1892. Joseph Punjabi - south-west of the people of Goa. 3. Pied Beauty Dimpled things - sky, cow, fish, finches' wings, land, waves, fields, things are created His greatness.	
② 3:30 to 3:15	SYBA Com English	Unit II Poetry	Up - Hill About the Author - Christina Georgina Rossetti (1830-1895) About the poem: - life is compared with a painful journey. There are two voices.	
③ 3:15 to 10:00	TYBA Com English	Unit 4 Poetry	Up - Hill About the Author - Christina Georgina Rossetti (1830-1895) About the poem: - life is compared with a painful journey. There are two voices.	
④ 10:10 to 10:55	SYBA Add. English Spl. 2	A Theory of Poetry	① Types of Poetry ii) Narrative Poetry: - simple or a complex story. 3 types a) Ballad: a single memorable episode. It is meant to be sung. b) Epic - a long narrative poem. c) Metrical Romance or Romance tale.	

Book referred  
 ① Pearls of Wisdom: An Anthology of Prose and Poetry  
 ② Panorama: Values and Skills through Literature  
 ③ Success Avenue

Other activities  
 ① Mirage: An Anthology of English Poetry

P. P. Kulkarni  
 - Signature of the Lecturer

# DAILY RECORD

Date: 10/10/2020

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 2:45 to 3:30	TTGA English Spl. 3	A Theory of Novel	① Types of Novel ② Realistic Novel - It deals with real life like people with believable situations.	
② 3:30 to 9:15	PTGA Com. English	Unit III Grammar	1. The Passive Voice What is passive voice? Its usage. The structure of passive voice. Active into passive voice.	
③ 9:15 to 10:00	PTGA Com. English	Unit I Poetry	Up: Hill The first voice asks many questions, does the road wind up hill all the way? Journey for whole long day? Is there a resting place? The second voice answers all these questions.	
④ 10:10 to 12:55	PTGA Add. English	Unit II	2. The Fisherman - Teller About the poem - written in pidgin / bazaar English - partly sight in Indian.	
⑤ 11:40 to 12:25	TTGA English Spl. 3	A Theory of Novel	③ Other Literary Terms ④ Allegory, Antagonist, characterization, Climax, Complication, Conflict, Conventions, Denouement, Dramatic Irony, Exposition, Fable, Falling action, Foreshadowing, Motif, Symbolism.	

Book referred ① E.M. Forster: Aspects of the Novel  
② Panorama: Values and Skills through Literature

Other activities ③ Success Avenue  
④ Pearls of Wisdom: An Anthology of Prose and Poetry

TPHachand  
Signature of the Lecturer

# DAILY RECORD

Date: 12/10/2020

DAY: Monday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	SYGA Com. English	Unit III Grammar	1. The Passive Voice How an active voice sentence can be changed into passive voice. The rules/cautions to take into consideration during such change. 'by + doer' can be left when not necessary. Examples of passive voice.	
② 9:15 to 10:00	PTGA Add. English	Unit I Poetry	Up: Hill Class - Comprehension A. Read the following lines and answer the questions given below. B. Answer the following questions in a sentence each. C. Answer the following questions in 30-40 words each. D. Answer the following questions in 150 words each. Discussion of answers of the questions.	

Book referred ① Panorama: Values and Skills through Literature  
② Success Avenue

Other activities

TPHachand  
Signature of the Lecturer

# DAILY RECORD

Date: 13/10/2010

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	SYBA Com. English	Unit III Grammar	<p>I. The Passive Voice Exercises</p> <p>A. Change the following sentences from the active to the passive voice. (in page 28)</p> <p>B. Change the following sentences from the passive to the active voice.</p> <p>On page 28 29 and 30 with explanation</p>	
② 9:15 to 10:00	SYBA English Spl. 2	B. Poems	<p>1. The Nightingale or Philomela</p> <p>About the poet: Sir Philip Sidney (1554-86) - a courtier, soldier, poet and explorer and a critic. A poet-critic - A Defence of Poetry. He was patronized. He patronized his diplomatic career in France. In 1586 Sidney joined his uncle, Robert Dudley in defending the Protestants in the battle of Ireland. He was wounded in battle and died on October 17, 1586.</p>	

Book referred

① Panorama: Values and Skills through Literature

② Mirage: An Anthology of English Poetry

Other activities

*[Signature]*  
Signature of the Lecturer

# DAILY RECORD

Date: 14/10/2010

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	SYBA Addl. English	Unit II	<p>2. The Fortune Teller</p> <p>a roadside fortune-teller talking with his customer - an English lady, a 'monnaie' with her husband (understand), a poor person, her art of fortune telling</p>	
② 8:30 to 9:15	TYBA English Spl. 3	A. Theory of Novel	<p>② Other Literary Terms</p> <p>Dialogue &amp; Exposition, fable, falling action, beginning of the novel, development of the novel, introduction of the problem and introduction of the characters, development of the problem.</p>	
③ 9:15 to 10:00	SYBA English Spl. 2	B. Poems	<p>1. The Nightingale or Philomela</p> <p>About the poem: The story of Philomela in book 6 of Ovid's Metamorphoses. Philomela and Procne - the daughters of King Pandion of Athens. Procne married Tereus of Thracia though he liked after Philomela.</p>	

Book referred

① Pearls of Wisdom: An Anthology of Prose and Poetry

② E.M. Forster: Aspects of Novel

③ Mirage: An Anthology of English Poetry

Other activities

*[Signature]*  
Signature of the Lecturer

## DAILY RECORD

Date: 15/10/2019

 DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 2:45 to 3:30	SYBA English Spl. 2	B. Poems	1. The Nightingale or Philomela Sichew compares himself with Philomela. Philomela didn't understand or appreciate Torus's own unobscured love for her.	
② 3:30 to 3:45	FRBA English Spl. 3	A-Theory of Novel	① Other Literary Terms Fiction: what is made by fiction. The imaginary story, characters and situations and setting. - Examples of fiction Flashback technique in setting time, group and place. Stay Calm	
③ 3:45 to 4:20	FRBA Com. English	Unit 2 Poetry	About the author: Grenville K. I. (1815-1851) About the poem - the circumstances readers to keep calm in the face of Germany's big and small upsets	
④ 4:20 to 4:55	FRBA Add. English	Unit II	2. The Fortune Teller Glossary, Comprehension A. Write short answers to the following questions: ① Answer each of the following questions in about 20 words.	

Book referred

- ① Mirage: An Anthology of English Poetry
- ② E. M. Forster: Aspects of Novel
- ③ Success: Success

Other activities

- ① Points of Wisdom: An Anthology of Prose and Poetry

T. P. S. S. S.  
Signature of the Lecturer

## DAILY RECORD

Date: 16/10/2019

 DAY: Friday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	FRBA Add. English	Unit III	1. Good Manners About the Essay: An Introduction to Citizenship by J. C. M. Values are the link between word and action/feeling & behavior.	
② 8:30 to 9:15	SYBA Com. English	Unit III Grammar	2. Direct and Indirect Speech Two ways of reporting the words spoken by other people. Direct words - direct speech Indirect words - Indirect speech Reporting verbs - examples Stay Calm	
③ 9:15 to 10:00	FRBA Com. English	Unit 2 Poetry	The poet asks to keep calm when 1) you know you will report 2) you will feel insult, 3) if your wishes are denied, 4) when you are confronted by evil.	
④ 10:10 to 10:55	SYBA English Spl. 2	B. Poems	1. The Nightingale or Philomela Glossary and Comprehension Questions from 1 to 5 on page 49 Questions for Critical Analysis from 1 to 4 on page 50	

Book referred

- ① Points of Wisdom: An Anthology of Prose and Poetry
- ② Panorama: Values and Skills Through Literature
- ③ Success: Success

Other activities

- ① Mirage: An Anthology of English Poetry

T. P. S. S. S.  
Signature of the Lecturer

## DAILY RECORD

Date: 19/10/2020

DAY: Monday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	SYBA Com. English	Unit III Grammar	2. Direct and Indirect Speech Rules to follow while changing sentence from direct to indirect speech. The changes in the tenses of the respect indirect speech. Certain exception for this rule. Changing some words in indirect speech.	
② 9:15 to 10:00	SYBA Com. English	Unit 2 Poetry	Stay Calm The poet suggests that if you are calm and tranquil when all around is strife, you have realised the most vital thing in life. Glossary, Comprehension A. Read the following lines and answer the questions given below. B. Answer the following questions in a sentence each. C. Answer the following questions in about 30-40 words each. D. Answer the following questions in about 100 words each.	

Book referred ① Panorama: Values and Skills Literature

② Success Avenue

Other activities

*Topiksham*  
Signature of the Lecturer

## DAILY RECORD

Date: 20/10/2020

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	SYBA Com. English	Unit III Grammar	2. Direct and Indirect Speech Exercises A. Rewrite the following sentences in indirect speech. Using appropriate reporting verbs. B. Rewrite the following sentences in indirect speech. C. Rewrite the following sentences in indirect speech. D. Rewrite the following sentences in direct speech.	
② 9:15 to 10:00	SYBA English Sp. 2	B. Sonnet	2. Sonnet 5 About the poet: - William Shakespeare (1564-1616) plays, poems and sonnets, actor. Plays - histories, comedies, tragedies and romances. The Shakespearean sonnet - series of 147 sonnets are dedicated to a mysterious 'Dark Lady' and a 'fair youth'. He has coined many words, reinforced from Latin or Greek roots. He died on 23rd April 1616 and his burial is Stratford-upon-Avon.	

Book referred ① Panorama: Values and Skills through Literature

② Mirage: An Anthology of English Poetry

Other activities

*Topiksham*  
Signature of the Lecturer



## DAILY RECORD

Date: 21/10/2010

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	F.Y.B.A. Addl. English	Unit III	1. Good Manners Example of a young man - strong and healthy & enjoyed his work. He developed pneumonia and was dangerously ill. An old man hesitating on a crossing.	
② 8:30 to 9:15	F.Y.B.A. English Spl. 3	A Theory of Novel	③ Other Literary Terms Freitag's Pyramid (Austen) A: Beginning B: Climax C: End/Denouement The elements in all the above	
③ 9:15 to 10:00	S.Y.B.A. English Spl. 2	B Poems	2. Sonnet 3 About the poem - The third in Shakespeare's sonnet series and fits within what is called the 'fair youth' sequence. The procreation sonnet as the speaker seems to be exhorting the youth addressed to have children and therefore continue not just his, but also the mother's line.	

Book referred: ① Pearls of Wisdom: An Anthology of Prose and Poetry  
 ② E.M. Forster: Aspects of Novel  
 ③ Mirage: An Anthology of English Poetry

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 22/10/2010

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	S.Y.B.A. English Spl. 2	B. Poems	2. Sonnet 3 The structure of the sonnet - the lines are divided into three quatrains - stanzas of 4 lines each with a volta/turn - the couplet at the end. Die & Iambic pentameter	
② 8:30 to 9:15	F.Y.B.A. English Spl. 3	A Theory of Novel	④ Other Literary Terms Parable - The definition of parable. The characters and the setting of it. Its real motive. Examples of Parable.	
③ 9:15 to 10:00	F.Y.B.A. Com. English	Unit 1 Communication and Life Skills	Meeting and Greeting People, and Dialogues Greeting and Taking leave The expressions used to greet when people greet and take leave of one another - formal dialogues.	
④ 10:10 to 10:55	F.Y.B.A. Addl. English	Unit III	1. Good Manners When you are with your own friends - anyone - speak clearly and sufficiently loudly for the person to hear. Thrown out - it takes time to read it.	

Book referred: ① Mirage: An Anthology of English Poetry  
 ② E.M. Forster: Aspects of Novel  
 ③ Success Stories  
 ④ Pearls of Wisdom: An Anthology of Prose and Poetry

Other activities

  
 Signature of the Lecturer

# DAILY RECORD

Date: 23/10/2010

DAY: Friday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 9:30	F.Y.B.A. Addl. English	Unit III	1. Good Manners Example - 'Are you a Red Scout?' 'I'm two eggs on toast. Not to take seriously literally but real meaning	
② 2:30 to 3:15	F.Y.B.A. Com. English	Unit III Grammar	3. Negative Sentences If the statements state what did not happen, what was not said or done etc. How can we change affirmative sentences into negative	
③ 9:15 to 10:00	F.Y.B.A. Com. English	Unit I Communication and Life Skills	Meeting and Greeting People and Dialogues Dialogue (informal page no 43) Exercise 1 look at some expressions used to greet people and take leave of them. (page no 44)	
④ 10:10 to 10:55	F.Y.B.A. English Spl. 2	A. Poems	2. Sonnet 3 Explanation of the poem. Glossary and Comprehension Questions from 1 to 4 on page 55 Questions for Critical Analysis from 1 to 5 on page no. 55 along with their possible answers.	

Book referred

- ① Pearls of Wisdom: An Anthology of Prose and Poetry
- ② Panorama: Values and Skills through Literature
- ③ Success Avenue

Other activities

- ④ Pinnacles: An Anthology of English Poetry

*T.P. Shrivastava*  
Signature of the Lecturer

# DAILY RECORD

Date: 24/10/2010

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 8:45 to 9:30	F.Y.B.A. English Spl. 3	A. Theory of Novel	① Other Literary Terms Tone, Parody, Recognition, Resolution, Foreshadowing, Hamartia, Writing Style.	
② 9:30 to 9:45	F.Y.B.A. Com. English	Unit III Grammar	2. Negative Sentences Examples of certain sentences changing into negative sentences.	
③ 9:45 to 10:00	F.Y.B.A. Com. English	Unit 4 Communication and Life Skills	Meeting and Greeting People and Dialogues Introducing yourself to each other in a formal situation Dialogues (formal) page no 48	
④ 10:10 to 10:55	F.Y.B.A. Addl. English	Unit III	1. Good Manners Don't think you can say unpleasant things about someone behind his back and not be heard	
⑤ 11:40 to 12:25	F.Y.B.A. English Spl. 3	B. Novel	Animal Farm George Orwell - Critical Study of his work - Bibliography Chronology - Eric Arthur Blair (1903-1950) Richard Blumberg Blair and Ida Mabel Blair	

Book referred

- ① E.M. Forster: Aspects of Novel
- ② Panorama: Values and Skills through Literature
- ③ Success Avenue
- ④ Pearls of Wisdom: An Anthology of Prose and Poetry

Other activities

*T.P. Shrivastava*  
Signature of the Lecturer

## DAILY RECORD

Date: 26/10/2020

DAY: Monday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	SYBA Comm. English	Unit III Grammar	3. Negative Sentences Exercise A. Change the following sentences into negative sentences. The identification of helping verb and main verb. Converting the helping verb/main verb into negative form by adding 'not' to helping verb or 'do'.	
② 9:15 to 10:00	SYBA Comm. English	Unit I Communication and Life Skills	Meeting and Greeting People and Dialogues Introducing People to One Another A person introduces people to one another. Dialogue (Formal) (page 10-11) Dialogue (Informal situation) page 11-12. Exercise 1, Exercise 2 Working first in pairs and then in groups of three, write and enact the following situations in the form of brief dialogues choosing appropriate expressions from above.	

Book referred ① Panorama: Values and Skills through Literature

② Success Avenue

Other activities

M. P. Chakraborty  
Signature of the Lecturer

## DAILY RECORD

Date: 27/10/2020

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	SYBA Comm. English	Unit IV Vocabulary	1. One-word Substitutes A single word = replace a group of words without any change in meaning. The word helps to make our ideas brief and to the point. It helps to avoid circumlocutions, i.e. lengthy and roundabout expressions and unnecessary repetitions.	
③ 9:15 to 10:00	SYBA English Sp 2	B. Poems	3. The Sun Rising About the Poet John Donne (1570-62) the Metaphysical poet. He was Catholic and Catholics were suffered during Henry VIII's Queen Elizabeth's reign. Donne felt a deep identity crisis. He served as a diplomat and a Member of Parliament. He married with her in 1601. He suffered from financial insecurity. He ordained as an Anglican minister in 1611. He died in 1631.	

Book referred ① Panorama: Values and Skills through Literature

② Mirrors: An Anthology of English Poetry

Other activities

M. P. Chakraborty  
Signature of the Lecturer

## DAILY RECORD

Date: 28/10/2010

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	T.Y.B.A. English	Unit III	1. Good Manners Comprehension A. Choose the best option out of the following. B. Answer each of the following questions in a sentence or two. Answer each of the following: Animal Farm	
② 8:30 to 9:15	T.Y.B.A. English	B. Novel	George Orwell in our world He wrote documentaries, essays and criticism during the 1930s. Back in London, he settled down in a gritty bedroom in Portobello Road. He lived for 2 months among the tramps and poor people there.	
③ 9:15 to 10:00	S.Y.B.A. English	B. Poems	3. The Sun Rising Reads the poem: - Songs and Sonnets (1895) an emotional lyric in the form of a dramatic monologue. The poet-lover laments with his mistress or lover rebukes the early sun for disturbing them. The speaker has recognized the all-sufficient	

Book referred

1. Pearls of Wisdom: An Anthology of Prose and Poetry
2. George Orwell: Animal Farm
3. Mirage: An Anthology of English Poetry

Other activities

*P. H. Sharma*  
Signature of the Lecturer

## DAILY RECORD

Date: 29/10/2010

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	T.Y.B.A. English	B. Poems	3. The Sun Rising The poet argues that it is he and not the sun (the universally acknowledged regulator and lord) who rules and controls the world. Animal Farm	
② 8:30 to 9:15	T.Y.B.A. English	B. Novel	2. George Orwell: Socialist, Anarchist or what...? His political ideology is reflected through his work: Socialism, Stalinism and Trotskyism.	
③ 9:15 to 10:00	T.Y.B.A. English	Unit I Com. Grammar and Life Skills	Meeting and Greeting People and Dialogues Dialogues: Some useful expressions Apologies and Responses Agreeing (A) and Disagreeing (D) General speaking strategies	
④ 10:10 to 10:55	T.Y.B.A. English	Unit III	2. Where the Mind is without Fear About the poet - Rabindranath Tagore (1861-1941), multifaceted personality. He was a poet, dramatist, short story writer, novelist.	

Book referred

1. Mirage: An Anthology of English Poetry
2. George Orwell: Animal Farm
3. Success Assurance

Other activities

*P. H. Sharma*  
Signature of the Lecturer

## DAILY RECORD

Date: 31/10/2020

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	TY.B.A. English Sp.3	B-Novel	Animal Farm 3. Formation & Development of George Orwell: Political View His stay at Kangoon (Burma)	
② 8:30 to 9:15	SY.B.A. Com. English	Unit III Vocabulary	1. One word Substitutes A list of one-word substitutes along with explanation	
③ 9:15 to 10:00	FY.B.A. Gen. English	Unit 2 Communication and Life Skills	Group Discussions, and Interview and Interviewing Skills Initiating a Group Discussion, Conducting a Group Discussion, Conducting a Group Discussion	
④ 10:10 to 10:55	FY.B.A. Add. English	Unit III	2. Where the Mind is without Fear About the poem: "A Tangled" devotional poems in the Indian tradition.	
⑤ 11:40 to 12:05	FY.B.A. English Sp.3	B-Novel	Animal Farm 4. Honest, Decent, Wrong, The Invention of George Orwell The History of Soviet Union, Orwell's army is one of the most ideologically mixed up ever to assemble. Be-communist!	

Book referred ① George Orwell: Animal Farm  
② Panorama: Values and Skills through Literature  
③ Success Assurance

Other activities ④ Pearls of Wisdom: An Anthology of Prose and Poetry



Head  
Dept. of English  
S.S.G.M. College, Kopergaon



Signature of the Lecturer

## DAILY RECORD

Date: 02/11/2020

DAY: Monday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	SY.B.A. Com. English	Unit III Vocabulary	1. One-word Substitutes 2. Exercises A. Find one word that is applicable to both the phrases in each set of items below. B. Write one-word substitutes for the following (on page No. 165 or)	
③ 9:15 to 10:00	FY.B.A. Com. English	Unit 2 Communication and Life Skills	Group Discussions, and Interview and Interviewing Skills Aspects of group discussion ① Turn taking - not much time ② Referring to arguments raised by others. ③ Focusing on the topic ④ Exploring different perspectives ⑤ Carrying the discussion to a logical end - open and receptive minds during the discussion	

Book referred ① Panorama: Values and Skills through Literature  
③ Success Assurance

Other activities



Signature of the Lecturer

# DAILY RECORD

Date: 03/11/2010

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	SYBA Com-English	Unit IV Vocabulary	2. Idioms Phrases - derive their meanings from context and established usage rather than from the meanings of their individual words put together. Idioms are derived from literature, history, age, society, country or culture etc.	
③ 9:15 to 10:00	SYBA English Spl. 2	B-Poems Spl. 2	3. The Sun Rising Glossary & Comprehension Questions: 1. What is the poet doing to the figure of the sun throughout the poem? 2. What are two things he compares the lover to? 3. Why does he talk about country ants' and 'humb' men? Why do you think he uses these particular images? 4, 5 Questions for Critical Analysis: 1. What is a metaphysical conceit? How is it used in this poem? 2, 3, 4 with answers	

Book referred

① Panorama: Values and Skills through Literature

② Mirage: An Anthology of English Poetry

Other activities

*M. H. S. S. S.*  
Signature of the Lecturer

# DAILY RECORD

Date: 04/11/2010

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 9:20	SYBA Addi-English	DUnit III	e. Where the Mind is without Fear Head high, knowledge free world has, has been broken up into fragments by narrow domestic walls, depth of truth	
② 9:30 to 9:55	SYBA English Spl. 3	B-Novel	Animal Farm 'The Freedom of Press' - George Orwell's Original Preface to Animal Farm. The publishers are frightened of prosecution as well as of public opinion. Totalitarian 'co-ordination'.	
③ 9:15 to 10:00	SYBA English Spl. 2	B-Poems	4. London About the poet: William Blake (1757-1800) an English poet, painter and engraver. He opposed the rationalism and materialism of his times. His vision was true freedom of the spirit and he hoped to free man from the shackles of convention and isolation. Materialism	

Book referred

① Poets of Wisdom: An Anthology of Prose and Poetry

② George Orwell: Animal Farm

③ Mirage: An Anthology of English Poetry

Other activities

*M. H. S. S. S.*  
Signature of the Lecturer

## DAILY RECORD

Date: 08/11/2010

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	ETBA English Spl. 2	B-Poems	4. London About the poem: - A picture of corruption, bondage and misery. He censures the authorities of the church and the stonemasons for neglecting the suffering of animals from the poor.	
② 8:30 to 9:15	ETBA English Spl. 3	B-Animal	Chapter I - Mr. Jones the Major farm. The deplorable condition of the animals on the farm. The big pig. Major and his inspirational speech.	
③ 9:15 to 10:00	ETBA Com. English	Unit 2 Communication and Life Skills	Group Discussions and Interviewing Skills AD - Example: Plastic Money in India - A group discussion topic. Exercise: Pass on the message of peace in the universe.	
④ 10:10 to 10:55	ETBA Add. English	Unit III	2. Where the Mind is without Fear Glossary, Comprehension a. Write short answers to the following questions. b. Answer each of the following.	

Book referred

- Mirage: An Anthology of English Poetry
- George Orwell: Animal Farm
- Success Avenue

Other activities

- Pearls of Wisdom: An Anthology of Prose and Poetry

M. P. Shrivastava  
Signature of the Lecturer

## DAILY RECORD

Date: 06/11/2010

DAY: Friday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	ETBA Add. English	Unit IV	1. My Financial Career About the author: - Stephen Leacock born on 31 <sup>st</sup> December 1869 in the United Kingdom. He taught at McGill University.	
② 8:30 to 9:15	ETBA Com. English	Unit IV Vocabulary	a. Idioms c. Clothes Idioms: examples Animal Idioms: examples Sport Idioms: examples Money Idioms: examples.	
③ 9:15 to 10:00	ETBA Com. English	Unit 2 Communication and Life Skills	Group Discussions and Interviewing and Interviewing Skills Preparing for an Interview: Tips Facing an Interview: Techniques Promission, Greeting, Greetings.	
④ 10:10 to 10:55	ETBA English Spl. 2	B-Poems	4. London He describes the streets of London and records his impressions of the scenes around him. 1847 London dominated by conventional law and reason.	

Book referred

- Pearls of Wisdom: An Anthology of Prose and Poetry
- Paravans: Values and Skills through Literature
- Success Avenue
- Mirage: An Anthology of English Poetry

Other activities

M. P. Shrivastava  
Signature of the Lecturer

## DAILY RECORD

Date: 07/11/2010

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	T.Y.B.A. English Spl. 3	B. Nand	Animal Farm Chapter II The death of old Major. Snowball and Napoleon fed two pigs. & Idioms Colour Idioms: examples Common Expressions: examples	
② 8:30 to 9:15	S.Y.B.A. Com. English	Unit IV Vocabulary	Group Discussions and Interviews and Interviewing skills Interviewing Techniques:- learned background, he does about the purpose of interview, by who?	
③ 9:15 to 10:00	P.Y.B.A. Com. English	Unit 2 Communication and Life Skills	1. My financial Career About the essay: first appeared in literary lapses published in 1910. Theme: the effects of capitalism.	
④ 10:10 to 10:55	P.Y.B.A. Addl. English	Unit IX	Animal Farm Chapter III The Manor farm is acquired by the animals. They tilled on the farm. The good harvest and their bits of problems - the milk and apples. Their consumption.	

Book referred  
 ① George Orwell: Animal Farm  
 ② Romona: Values and Skills through Literature  
 ③ Success Avenue

Other activities  
 ④ Pearls of Wisdom: An Anthology of Prose and Poetry

T. P. Khushnab  
Signature of the Lecturer

## DAILY RECORD

Date: 09/11/2010

DAY: Monday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	S.Y.B.A. Com. English	Unit II Vocabulary	3. Prefixes and Suffixes Prefixes - groups of letters, added to the beginning of words to get new words. Prefixes - change the meaning, strengthen the meaning etc. develops size of the word. opposite meaning prefixes reversed of action prefixes attitude prefixes number prefixes.	
③ 9:15 to 10:00	P.Y.B.A. Com. English	Unit 3 Communication and Life Skills	Presentation Skills Kinds of Presentations • Overhead projection transparency • 35mm slides • Computer projection (PPT) etc. • Flipcharts/foolcote or white board • scratchpads to expand or split • video or film • real objects (a product/plant specimen) Giving information systematically. It is used for presenting report, proposals, policy statement etc.	

Book referred  
 ① Romona: Values and Skills through Literature  
 ② Success Avenue

Other activities

T. P. Khushnab  
Signature of the Lecturer



# DAILY RECORD

# DAILY RECORD

Date: 10/11/2010

DAY: Tuesday

Date: 11/11/2010

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 5:30 to 5:45	SYBA English	Unit IV Vocabulary	3.1. suffixes and Suffixes Suffix: a letter / a group of letters added at the end of words to form new words with or without a change of word class. Examples of suffixes: -ful: tentful, doubtful, spendful -ment: payment, judgement, amusement -ess: hobbit, tigress, princess -able / -ible: remarkable, manageable, convertible -ism: idealism A. London He suggests socio-political oppression. It shows the fear, helplessness and weakness that the poet notes 'in every face'. The poet condemns the victims too for their 'mind-forged manacles'. The speaker specifically refers to the Church and the Government as the forces of oppression. The fear and suffering of the people are caused by political & religious	
③ 9:15 to 10:00	SYBA English Spl. 2	B-focus		

Book referred

- ① Panorama: Values and Skills through Literature
- ② Mirage: An Anthology of English Poetry

Other activities

T. P. S. S. S.  
Signature of the Lecturer

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	SYBA English	Unit IV	1. My Financial Career. The narrator becomes nervous when he steps into a bank. The 'Accountant' - a tall, cool devil. The manager - a grove, calm man - 50 dollars divided by a mortgage bill in my pocket. Animal Farm	
③ 8:30 to 9:15	SYBA English Spl. 3	B-Novel	Chapter II: The Late Summer Mr. Jones - sitting in the top room of the Red Lion at Billingdon. The farmers were afraid of the rebellion on Animal Farm	
⑤ 9:15 to 10:00	SYBA English Spl. 2	B-focus	6. Ode on a Grecian Urn About the poet: John Keats (1795-1821) Keats was known for his Sensuous Imagery & lyrical charm of his poems. He looked at death as fearlessly in his life as in his poems and left instructions for his buried in his unopened letters to his lover.	

Book referred

- ① Poems of Keats: An Anthology of Prose and Poetry
- ② George Orwell: Animal Farm
- ③ Mirage: An Anthology of English Poetry

Other activities

T. P. S. S. S.  
Signature of the Lecturer

## DAILY RECORD

Date: 17/11/2020

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	S.T.B.A Comm. English	Unit IV Vocabulary	3. Prefixes and Suffixes Exercises A. Add appropriate prefixes to the following words to form new words. B. Add appropriate suffixes to the following words to form new words. C. Fill in the blanks in the following sentences with words formed by combining the right prefixes and words given in the box. D. Fill in the blanks with words formed by adding suitable suffixes to the words given in the box. E. Ode on a Grecian Urn	
② 9:15 to 10:00	S.T.B.A English Spl. 2	B: Poems	About the Poem - It is written in 1819. The poem reveals his preoccupation with beauty in objects as well as experiences around him in both life and nature. The speaker looks at a Grecian urn, which is decorated with exquisite images of rustic and rural life in ancient Greece. These scenes fascinate, mystify and excite the speaker in equal measure.	

Book referred

① Panorama: Values and Skills through Literature.

② Mirage: An Anthology of English Poetry

Other activities

T.P. Shrivastava  
Signature of the Lecturer

## DAILY RECORD

Date: 18/11/2020

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	P.Y. Block Addi. English	Unit IV	1. My financial Career He wants to meet the manager. The manager doubts that he is Pinkerton's man. He goes to bank to open account. His first business ghostly job.	
③ 8:30 to 9:15	T.T.B.A English Spl. 3	B: Novel	Animal Farm Chapter IV Winter was on. Mollie runs away. The month of January. The meetings on the animal farm. Snowball's success at these meetings. The decision of blindness.	
④ 9:15 to 10:00	S.T.B.A English Spl. 2	B: Poems	c. Ode on a Grecian Urn The speaker's response shifts through different moods, and ultimately the urn provides questions more than it provides answers. The poem's ending has been and remains the subject of varied interpretation.	

Book referred

① Pearls of Wisdom: An Anthology of Prose and Poetry

② George Orwell: Animal Farm

③ Mirage: An Anthology of English Poetry

Other activities

T.P. Shrivastava  
Signature of the Lecturer

## DAILY RECORD

Date: 19/11/2010

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:20	ST&A English Spl. 2	Biblos	5: Ode on a Grecian Urn The urn in the poem could be seen as representing the changelessness of the arts of painting and sculpture. Structures: 6 stanzas of ten lines each.	
② 8:30 to 9:15	ST&A English Spl. 3	Biblos	Animal Farm Chapter III All the year the animals worked like slaves. The spring and summer so hard work and in August Napoleon announced Sunday	
③ 9:15 to 10:00	ST&A Com. English	Unit 3 Communication Life Skills	Some useful guidelines for problem ① Plan your presentation ② Set down its objectives/purpose ③ Think about your audience ④ List of main points.	
④ 10:10 to 10:55	ST&A Add. English	Unit II	1. My Financial Career The people in the bank had the impression that he was an honest millionaire. He withdrew all the \$6 dollars - the clerk said him wrong.	

- Book referred to
- ① Mirage: An Anthology of English Poetry
  - ② George Orwell: Animal Farm
  - ③ Success Avenue
- Other activities
- ① Pearls of Wisdom: An Anthology of Prose and Poetry

*T. H. H. H.*  
Signature of the Lecturer

## DAILY RECORD

Date: 20/11/2010

DAY: Friday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	ST&A Add. English	Unit II	1. My Financial Career Glossary, Comprehension A. Choose the best option in each of the following. B. Answer in a sentence. I. Leadership Skills The ability to take decisions, to take initiative, to motivate and lead by example, to use reason rather than emotion, to resolve conflicts, to take blame for things.	
② 8:30 to 9:15	ST&A Com. English	Unit II Soft Skills	Presentational Skills Structuring Content: With well beginning, body and an end. The beginning consist of greeting, a brief clear statement of the subject, and purpose of the presentation.	
③ 9:15 to 10:00	ST&A Com. English	Unit 3 Communication Life Skills		
④ 10:10 to 10:55	ST&A English Spl. 2	Biblos	6. To a Skylark About the poet: Percy Bysshe Shelley (1792-1829) Radical and atheistic opinions through the epigrammatic hero, a severe alienation between the poet and father.	

- Book referred to
- ① Pearls of Wisdom: An Anthology of Prose and Poetry
  - ② Panorama: Values and Skills through Literature
  - ③ Success Avenue
  - ④ Mirage: An Anthology of English Poetry
- Other activities

*T. H. H. H.*  
Signature of the Lecturer

## DAILY RECORD

Date: 21/11/2010

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	TYBA English Spt 3	B. Novel	Animal Farm Chapter VIII The bitter winter. Snowball's role and destruction of windmill.	
② 8:30 to 9:15	SYBA Com. English	Unit III Soft Skills	1. Leadership Skills A motivator, honest, Trustworthy, to delegate work, good communication, Confidence, Positive attitude.	
③ 9:15 to 10:00	SYBA Com. English	Unit 3 Communication and Life Skills	Presentation Skills Visual aids - slides, transparency, Tip: if you use visual aids - The language of Presentations Making - Presentation Seminar	
④ 10:10 to 10:55	TYBA Add. English	Unit IX	2 - I Sit and Look Out About the poet - Walter Whitman (1819-1920) the most influential poet in America.	
⑤ 11:40 to 12:15	TYBA English Spt 3	B. Novel	Animal Farm Chapter VIII The sixth Commandment - "No animal shall kill any other animal" suffixed "without cause". Rebuilding of the windmill. <u>Minimus poem</u>	

Book referred ① George Orwell: Animal Farm  
② Panorama: Values and Skills through Literature  
③ Success Avenue

Other activities ④ Pearls of Wisdom: An Anthology of Prose and Poetry

*T. P. S. S. S.*  
Signature of the Lecturer

## DAILY RECORD

Date: 22/11/2010

DAY: Monday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	SYBA Com. English	Unit IV Soft Skills	1. Leadership Skills A good leader leads by example. He/she sets standards for the team to follow. Humour sense - a good sense of humour will help the team face the hard times through. It will keep the morale up and wipe away all tension and negativity. Example: Indra stoji, etc.	
② 9:15 to 10:00	FRBA Com. English	Unit I Prose	The Beggars - Rishi Anand Chatterjee The themes of struggle, kindness, compassion and alcoholism. The story of a beggar who lies about his identity in order to extract money from a lawyer but ends up embracing to him instead. He comes in contact with his cash Elje and finally learns to take charge of his life. The story is narrated by 3rd person.	

Book referred ① Panorama: Values and Skills through Literature  
② Success Avenue

Other activities

*T. P. S. S. S.*  
Signature of the Lecturer

## DAILY RECORD

Date: 24/11/2010

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	SYBA Gen English	Unit II Soft Skills	1. Leadership Skills Exercises 1. Explain the term 'soft skills'. How are they acquired? 2. What are some important soft skills employers look for in prospective employees? 3. Write down the qualities of a good leader. 4. A good leader leads by example. Comment on this statement.	
② 9:15 to 10:00	SYBA English Sp-2	B-Poem	6. To a Skylark About the poem: Completed In 1820, Keats was inspired by an evening walk that he undertook with Mary Shelley took in the countryside near Livorno, Italy. The poem describes the song and flight of the skylark through a series of similes. The bird becomes a symbol for poetry. Its song - possible reference to the art of writing poetry.	
Book referred				
① Panorama: Values and Skills through Literature				
② Mirage: An Anthology of English Poetry				
Other activities				

T. P. Choudhary  
Signature of the Lecturer

## DAILY RECORD

Date: 25/11/2010

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	SYBA Add- English	Unit IV	2. I Sit and Look Out About the poem - first published in his 1900 edition of Leaves of Grass: a cry of anguish at all the things that are going wrong in this world. The speaker is helpless.	
② 8:30 to 9:15	SYBA English Sp-3	B-Novel Animal Farm Chapter II	In the customer the four sows had all stirred about simultaneously - 31 pigs. But short of money - A stump of hay and part of the potato crop were sold off.	
③ 9:15 to 10:00	SYBA English Sp-2	B-Poem	6. To a Skylark The poem embodies the pursuit of the subtle understandings of the world, the relationship between man and nature, how nature and art are more closely linked than most people think and how poetry is the attempt to capture...	
Book referred				
① Pearls of Wisdom: An Anthology of Prose and Poetry				
② George Orwell: Animal Farm				
③ Mirage: An Anthology of English Poetry				
Other activities				

T. P. Choudhary  
Signature of the Lecturer

# DAILY RECORD

Date: 26/11/2010

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	SYBA English Spl. 2	B-Rooms	G: To a Skylark The poem consists of twenty-one stanzas of five lines each with the same ababb rhyme scheme. The lines give the poem its sweeping rhythm.	
② 8:30 to 9:15	SYBA English Spl. 5	B-Nand	Animal Form Chapter 8 A time came when there was no one who remembered the old days before the Rebellion except Clavers, Benjamin, Moses the weaver.	
③ 9:15 to 10:00	SYBA Com English	Unit 2 Prose	Black Money and Black Economy C. Ramnathar Reddy discusses black money in his book 'Democratization and Black Money'. Democratization was an effort to stop black money.	
④ 10:10 to 10:55	SYBA Add. English	Unit II	2. I Sit and Look Out The poet observes all the corners of the world; all oppression and drama; hear some cumulative jobs	

Book referred

- Miraga: An Anthology of English Poetry
- George Orwell: Animal Farm
- Success Avenue

Other activities

- Pearl of Wisdom: An Anthology of Prose and Poetry

*T. P. K. S. Choudhary*  
Signature of the Lecturer

# DAILY RECORD

Date: 27/11/2010

DAY: Friday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	SYBA Add. English	Unit II	e. I Sit and Look Out Glossary, Comprehension A. Write short answers to the following questions. B. Answer each of the following.	
② 8:30 to 9:15	SYBA Com English	Unit IV Soft Skills	2. Teamwork Skills Ability to work with people from various age, gender, educational, ethnic & other backgrounds. Adaptability, willingness to adjust ourselves to changes, new situations.	
③ 9:15 to 10:00	SYBA Com English	Unit 3 Prose	The Nightingale and the Rose A Nightingale gives up her life so that a student who thinks he is in love can win the heart of his beloved with a red rose. Compassion, sacrifice and love.	
④ 10:10 to 10:55	SYBA English Spl. 2	A-Theory of Poetry	④ I Sit and Look Out The definition of poetry and development of art of poetry ⑤ Elements of poetry ⑥ The elements of poetry (with explanation)	

Book referred

- Pearl of Wisdom: An Anthology of Prose and Poetry
- Parasrama: Values and Skills through Literature
- Success Avenue

Other activities

- Miraga: An Anthology of English Poetry

*T. P. K. S. Choudhary*  
Signature of the Lecturer

# DAILY RECORD

Date: 28/11/2010

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 8:45 to 9:30	TYBA English Spl 3	B. Novel	Animal Farm The Background, Setting, Summary and Analysis - The obliteration of totalitarian regimes	
② 9:30 to 9:45	TYBA Com. English	Unit IV Soft Skills	2. Teamwork Skills A good communicator, to be able to listen to one another, sharing ideas, opinions	
③ 9:45 to 10:00	TYBA Com. English	Unit 4 Prose	Muhammed Yunus: An Economist for Peace Yunus builds a new economy with micro-credit systems. It shows how he has succeeded in alleviating poverty.	
④ 10:10 to 10:55	TYBA Add. English	Unit I	1. The Sporting Spirit Revision - The author - George Orwell - his arguments and the examples he has given	
⑤ 11:40 to 12:25	TYBA English Spl 3	B. Novel	Animal Farm Themes, Metaphors, Character and The Allegory in Animal Farm. : ① Birds of England. ② The 7 rules of the farm ③ Farm-house, ④ Animalism, ⑤ Snow/Flia	

Book referred: ① George Orwell: Animal Farm  
② Panorama: Values and Skills through Literature  
③ Success Avenue

Other activities: ④ Cards of Wisdom: An Anthology of Prose and Poetry



Head  
Dept. of English  
S.S.G.M. College, Kopergaon

  
Signature of the Lecturer

# DAILY RECORD

Date: 01/12/2010

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 9:30 to 9:45	TYBA Com. English	Unit IV Soft Skills	2. Teamwork Skills Exercises 1. To be an effective member of a team, one needs to develop the ability to work with people Explain the importance of teamwork skills in the light of this remark. 2. Write down An qualities you possess that you think will make you a good team player.	
③ 9:45 to 10:00	TYBA English Spl 2	A. Theory of Poetry	① Figures of Speech ② Based on similarity, Association, contrast, Imaginatio, Indirectness, sound construction - examples ③ Types of Poetry Musical poetry - types of lyrical poetry - Hymn, Ode, Sonnet ④ Dramatic poetry - Dramatic monologue ⑤ Narrative Poetry - ① Ballad ⑥ Epic ⑦ Metrical Romance	

Book referred: ① Panorama: Values and Skills through Literature

② Mirage: An Anthology of English Poetry

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 02/12/2010

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	TYBA English	Unit I	2. The World is Too Much with Us Revisions: The poet will learn Wordsworth. His description of the natural world against the material things. His stress on the points raised by natural feelings.	
② 8:30 to 9:15	TYBA English Spt. 3	B. Novel	Animal Farm An Anarchist's Review: Acclaiming the Revolution. The fallacy at the heart of George Orwell's Animal Farm - Social Democratic consciousness among the workers.	
③ 9:15 to 10:00	TYBA English Spt. 2	B. Poems	① The Nightingale or Philomela Sir Philip Sidney claims to be envious of Philomela's ability to express her feelings through song while he has no recourse to anything but silence. The poem and the poet are sexist and patriarchal (women are cruel).	

Book referred: ① Pearl's Wisdom: An Anthology of Prose and Poetry  
 ② George Orwell: Animal Farm  
 ③ Mirage: An Anthology of English Poetry

Other activities

  
 Signature of the Lecturer

## DAILY RECORD

Date: 03/12/2010

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	TYBA English Spt. 2	B. Poems	2. Sonnet 3 William Shakespeare seems to be exhorting the youth addressed to have children and therefore continue not just his, but also the mother's line.	
② 8:30 to 9:15	TYBA English Spt. 3	B. Novel	Animal Farm Multiple Angles to The Criticism of Animal Farm ① Human nature exposed ② The Sector of Animal Farm ③ Power, Corruption and Animalism ④ Up-Hill - Christina Rossetti	
③ 9:15 to 10:00	TYBA English	Unit I Poetry	Up-Hill - Christina Rossetti We learn that the journey will be long, difficult and full of hardship, but we will be rewarded with a peaceful resting place at the end.	
④ 10:10 to 10:55	TYBA English	Unit II	1. Do Insects Think? Robert Charles Beuchamp's note on the contemporary nature of research in American. His use of 'a wasp' as example.	

Book referred: ① Mirage: An Anthology of English Poetry  
 ② George Orwell: Animal Farm  
 ③ Success Avenue  
 ④ Pearl's Wisdom: An Anthology of Prose and Poetry

Other activities

  
 Signature of the Lecturer



## DAILY RECORD

Date: 04/12/2019

DAY: Friday

Time	Class	Topic	Points covered	Remarks
① 2:45 to 3:30	TYBA Addl English	Unit II	2. The Fortune Teller Revision - The fortune teller's skill of telling 'good' things to the English couple to get certain coins as rewards.	
② 3:30 to 3:55	SYBA Com English	Unit IX Soft Skills	2. Teamwork Skills Edges of team work - show respect to other members Character work of debates Willingness to help others in the team - sense of loyalty	
③ 3:15 to 4:00	FYBA Com English	Unit 2 Poetry	Stay Calm Klein - counsels readers to stay calm in the face of the many big and small upsets of life, stating that a tranquil temperament is the most potent weapon.	
④ 4:10 to 4:55	SYBA English Spk 2	3. Poems	2. The Sun Rising John Donne's poem is an emotional lyric in the form of a dramatic monologue. The poet-lover rebukes the early sun for disturbing them.	

Book referred: ① Pearls & Wisdom: An Anthology of Prose and Poetry  
② Panorama: Values and Skills through Literature  
③ Success Avenue

Other activities: ④ Mirage: An Anthology of English Poetry

*P. B. Lakshmi*  
Signature of the Lecturer

## DAILY RECORD

Date: 05/12/2019

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 2:45 to 3:30	TYBA English Spk 3	B. Novel	Animal Farm Famine Exposure, newspaper Articles, Debating to Gareth Jones, Trip to the Soviet Union.	
② 3:20 to 3:45	SYBA Com English	Unit I & Unit II	Process - 1. Abingale Philosophy 2. The Homecoming 3. The Singer Poetry - 1. Kalampani Leaves 2. On Gangesbank 3. Pied Beauty	
③ 3:15 to 4:00	FYBA Com English	Unit 1 Communi- cation and Life Skills	Meeting and Greeting People, and Dialogues We use language to ask for directions, make a request, apology or congratulate someone.	
④ 4:10 to 4:55	FYBA Addl English	Unit III	1. Good Manners J.C. Hill's argument is up to good manner in the strictest sense. Various examples.	
⑤ 4:40 to 4:25	TYBA English Spk 3	B. Novel	Animal Farm Gareth's visit to Russia and Ukraine, in August 1930. The privileged classes. The Badge of Rank, Fine Ice Blue Blood counts, Tom Row	

Book referred: ① George Orwell: Animal Farm  
② Panorama: Values and Skills through Literature  
③ Success Avenue

Other activities: ④ Pearls & Wisdom: An Anthology of Prose and Poetry

*P. B. Lakshmi*  
Signature of the Lecturer

# DAILY RECORD

Date: 07/12/2010

DAY: Monday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	SRBA Com. English	Unit III Unit IV	Grammar 1. The Passive Voice 2. Direct & Indirect Speech 3. Negative Endings  Vocabulary 1. Overboard Substitute 2. Idioms 3. Prefixes and Suffixes Examples of overboard substitute Examples of various types & idiom Examples of prefixes and suffixes with explanation	
② 9:15 to 10:00	SRBA Com. English	Unit 2 Communication and Life Skills	Group Discussions and Interviews and Interviewing Skills A Group discussion is considered an important tool for assessing the suitability of a candidate for a job. An interview is a formal meeting at which people are asked questions by one or a panel of interviewers to find out if they are suitable for a job or a course.	

Book referred ① Panorama: Values and Skills through Literature

② Success Avenue

Other activities

M. Ghosh  
Signature of the Lecturer

# DAILY RECORD

Date: 08/12/2010

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	SRBA Com. English	Unit IV	Soft Skills ① Leadership Skills ② Teamwork Skills The qualities of leader Examples of the good leaders The King Shingji Examples of team work - The expected contribution from each team member to achieve certain goals.	
② 9:15 to 10:00	SRBA English Sp. 2	B-Poems	4. London William Blake's Song of Experience contains this poem. It deals with corruption, bondage and misery. In a severe and harsh tone, Blake condemns the authorities of the church and the state who pay no heed to the sufferings of the poor. The poem is published during the turmoil of the French Revolution.	

Book referred ① Panorama: Values and Skills through Literature

② Mirrors: An Anthology of English Poetry

Other activities

M. Ghosh  
Signature of the Lecturer

# DAILY RECORD

Date: 09/12/2010

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	TYBA Add. English	Unit III	2. Where the Mind is without Fear Revision - Rabindranath Tagore's dream about his mother land. His expectations from the God for this world.	
② 8:30 to 9:15	TYBA English Spl. 3	B. Novel	Animal Farm The two Russias ① Rulers and ruled below the surface Two views The five years plan The shock Brigades, Truth and statistics. Last fourth Stalin's dream	
③ 9:15 to 10:00	TYBA English Spl. 2	B. Poems	① Ode on a Grecian Urn John Keats' poem reveals his preoccupation with beauty in objects as well as experienced around him in both life and nature. The ode consists of five stanzas of ten lines each beginning with a quatrain of the abab rhyme scheme followed by a sestet (6 lines)	

Book referred ① Pearls of Wisdom: An Anthology of Prose and Poetry  
② George Orwell: Animal Farm  
③ Mircea: An Anthology of English Poetry

Other activities

M. P. Prabhakar  
Signature of the Lecturer

# DAILY RECORD

Date: 10/12/2010

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	TYBA English Spl. 2	B. Poems	6. To a Skylark P.B. Shelley was radical and aesthetic, alienated from his father. The poem deals with the creation of a poem itself through the metaphor of a skylark.	
② 8:30 to 9:15	TYBA English Spl. 3	B. Novel	Animal Farm The coerced farmer ③ War Propaganda - possible changes The war industry, food, clothes and boots scarce. Many difficulties	
③ 9:15 to 10:00	TYBA Com. English	Unit 3 Comm. Culture and Life Skills	Presentation Skills It is closely linked to career and personal growth. Students, teachers, scientists, researchers, managers, sales and marketing executives and administrators.	
④ 10:10 to 10:55	TYBA Add. English	Unit II	I. My Financial Career Revision of Stephen Leacock's humour in the aptitude 2. I Sit and Get Look Out Revision of Walt Whitman's description of the present world.	

Book referred ① Mircea: An Anthology of English Poetry  
② George Orwell: Animal Farm  
③ Success Awareness  
④ Pearls of Wisdom: An Anthology of Prose and Poetry

Other activities

S. M. Prabhakar  
Head  
Dept of English  
S.S.G.M. College, Kopergaon

T. B. Prabhakar  
Signature of the Lecturer

# DAILY RECORD

Date: / / 201

DAY:

Time	Class	Topic	Points covered	Remarks

Book referred

Other activities

Signature of the Lecturer

# DAILY RECORD

Date: 15/02/201

DAY: Monday

Time	Class	Topic	Points covered	Remarks
8:30 to 9:15	SYBA Com. English	Unit I Prose	1. The Chicago Speech About the author - Swami Vivekananda (1862-1902) a Hindu monk represented India at the World Parliament of Religions held in Chicago in 1893. The unification of various Hindu sects. About the text - Swami Vivekananda's welcome address - propagation of tolerance, fellowship, harmony.	
9:15 to 10:00	FT&G Com. English	Unit I Prose	Indira Nooyi: A Corporate Giant About the essay - Indira Krishnamurthy Nooyi (1955 - ) An Indian-born American business executive. She served as CEO of PepsiCo till 2018. She is currently serving on the board of directors of Amazon. How Indira Nooyi rises to the top at PepsiCo, her work ethics and how she decided the company's global strategy.	

Book referred

- ① Panorama: Values and Skills Through Literature  
② Success Avenue

Other activities

*Sujyoti*  
Head  
Dept of English  
S.S.G.M. College, Kopergaon

*Prakash*  
Signature of the Lecturer

# DAILY RECORD

Date: 16/02/2014

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
8:30 to 9:15	SYBA Com-English	Unit I Prose	1. The Chicago Speech Response to welcome, 11 September 1893 Sisters and Brothers of America thanked them for welcome in the name of the mother-land The introduction of religion which taught the world both tolerance and universal acceptance. The different streams mingle their water in the sea. I. My Last Duchess About the poet Robert Browning (1812-1889) master of dramatic monologue. Fluent in French, Greek, Italian and Latin, home education in classics and languages. The poet died in Italy in 1889 and is buried in Poet's Corner of Westminster Abbey. In dramatic monologue, a single speaker, his words create a drama for the reader.	
9:15 to 10:00	SYBA English Spl. 2	Prose		

Book referred: 1. Flowers: Values and Skills through Literature

2. Mirage: An Anthology of English Poetry

Other activities

M. K. Srinivasan  
Signature of the Lecturer

# DAILY RECORD

Date: 17/02/2014

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
7:45 to 8:30	F.Y.B.A. Add. English	Unit I	1. <u>Playing the English</u> (Gandhian) About the Author: Mahandas Karamchand Gandhi (1869-1948) Political leader, strict adherence to truth, campaigns for human rights, championing the philosophy of non-violence.	
8:30 to 9:15	F.Y.B.A. English Spl. 5	Novel	<u>The Old Man and the Sea</u> Ernest Hemingway; Born in Oak Park, Illinois. At the age of 18 - ambulance driver in Italy during WWI. The Reporter for the Kansas City Star, the Toronto Daily Star. Paris in 1924, 1926 for Esquire about Cuban fisherman Indro Nooyi: A Corporate Giant Nooyi's work ethic & her contribution to the development of the company. PepsiCo. Her management style. The conflict between her professional and private life and how she balanced the two.	
9:15 to 10:00	F.Y.B.A. Com-English	Unit I Prose		

Book referred: 1. Flowers of Wisdom: An Anthology of Prose and Poetry  
2. Ernest Hemingway: The Old Man and the Sea  
3. Sussex Avenue

Other activities

M. K. Srinivasan  
Signature of the Lecturer

## DAILY RECORD

Date: 18/02/2021

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	STBA English Spl.2	Poems	My Last Duchess About the Poem - It is a speech uttered by the cruel Duke of Ferrara while he negotiates the terms of his second marriage with an emissary.	
② 8:30 to 9:15	STBA English Spl.3	C.Novel	The Old Man and the Sea Setting: Time Period: The late 1940s. Place: A small fishing village, near Havana, Cuba in a shack, in a boat, on the water, the Gulf of Mexico.	
③ 9:15 to 10:00	STBA Com. English	Unit 2 Prose	Judra Nooyi: A Corporate Giant	
④ 10:10 to 10:55	STBA Addl. English	Unit 1	1. Playing the English Gentleman About the text: 'The Story of My Experiments with Truth' - published in Gujarati in 1927. Chapter 10 of the first volume narrates incidents from the five	

Book referred

- ① Mirza: An Anthology of English Poetry
- ② Ernest Hemingway: The Old Man and the Sea
- ③ Success Avenue

Other activities

- ④ Pearls of Wisdom: An Anthology of Prose and Poetry

M. K. Chaudhary  
Signature of the Lecturer

## DAILY RECORD

Date: 20/02/2021

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	STBA English Spl.3	C.Novel	1. The Old Man and the Sea 2. Person/Omniscient Sympathy The Stream of Consciousness: Technical flashback - wrestling match, the presence of his wife.	
② 8:30 to 9:15	STBA Com. English	Unit 1 Prose	1. The Chicago Speech Why We Dislike 19th Intellectuals The example of his frog, one from sea & one from well.	
③ 9:15 to 10:00	STBA Com. English	Unit 1 Prose	Judra Nooyi: A Corporate Giant Nooyi joined the company in 1999 as senior vice-president of Corporate Strategy & development.	
④ 10:10 to 10:55	STBA Addl. English	Unit 1	1. Playing the English Gentleman His faith in vegetarianism He read books, health was principal consideration.	
⑤ 11:40 to 12:25	STBA English Spl.3	C.Novel	1. The Old Man and the Sea Characters: ① Major characters ② Santiago and ③ The sea. ④ Minor characters: ① Marlin ② The marlin, ③ The sharks, ④ Joe ⑤ Ismael.	

Book referred

- ① Ernest Hemingway: The Old Man and the Sea
- ② Parvathy: Values and Skills through Literature
- ③ Success Avenue

Other activities

- ④ Pearls of Wisdom: An Anthology of Prose and Poetry

M. K. Chaudhary  
Signature of the Lecturer

## DAILY RECORD

Date: 22/02/2021

 DAY: Monday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	SYBA Com. English	Unit I Poese	1. The Chicago Speech Address at the final session, 27th September-1993 The formal speech of the conference He thanked for liberal sentiments The example of seed - as the seed assimilates the air, then the water assimilates the soil, then the religions have grown up. Each religion is important. Only the needs assimilate all the religions.	
② 9:15 to 10:00	F.Y.B.A Com. English	Unit I Poese	Indra Nooyi: A Corporate Giant Her official and personal res- ponsibilities - She hired nannies Her senior staffers, created a support system for their personal roles. Her 3 years old daughter would come from school and enter the office to see her mother. Two rules ① being the pillar of strong family ties ② Co-opting the entire ecosystem around you to bring up your kids.	

Book referred ① Panorama: Values and Skills through Literature  
② Success Avenue

Other activities

M. P. Ghosh  
Signature of the Lecturer

## DAILY RECORD

Date: 23/02/2021

 DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 8:20 to 9:15	SYBA Com. English	Unit I Poese	1. The Chicago Speech Comprehension A. Answer the following ques- tions in one sentence each. B. Answer the following questions in about 30-40 words. C. Answer the following questions in about 100 words. Answers of these questions - Discussion of explanation	
② 9:15 to 10:00	F.Y.B.A English Spl. 2	C. Poese	1. My Last Duchess The Duke tells how his first marriage had ended constitutes the drama of the poem. The poem has 28 rhyming couplets in iambic pentameter. The poem was published in 1842 in a book of poems titled Dramatic Lyrics. Background of the poem: Duke Alfonso II of Ferrara, a young aristocrat who loved art and his young wife Lucrezia died	

Book referred ① Panorama: Values and Skills through Literature  
② Mirage: An Anthology of English Poetry

Other activities

M. P. Ghosh  
Signature of the Lecturer

# DAILY RECORD

Date: 24/02/2021

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	F.Y.B.A. Addl. English	Unit I	1. Playing the English Gentleman His friend wanted him to be non-vegetarian. He took him to the Malabar Restaurant but Gandhi did not eat the non-vegetarian food. But he decided to change him as an English Gentleman.	
② 8:30 to 9:15	F.Y.B.A. English Spl. 5	Continued	2. The Old Man and the Sea Santiago: as a protagonist, elderly, very poor, confident despite periodic setbacks. Determined - 'A six-to-seven hour's proud humble, skilled fisherman, a deep respect for the sea and all of nature.'	
③ 9:15 to 10:00	F.Y.B.A. English Com.	Unit I Prose	Judra Naoyi: A Corpse on a Island Glossary, Comprehension A. Read the extracts and answer the questions given below. B. Answer the following questions in one sentence each. C. Answer the following questions in about 30-40 words each. D. Answer the following questions.	

Book referred  
 ① Pearls & Bubbles: An Anthology of Prose and Poetry  
 ② Ernest Hemingway: The Old Man and the Sea  
 ③ Success Avenue

Other activities

*M. K. Shukla*  
 Signature of the Lecturer

# DAILY RECORD

Date: 25/02/2021

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	F.Y.B.A. English Spl. 2	C. Poems	2. Soaring to Byzantium About the Poet - William Butler Yeats (1865-1933) An Irish poet. He used Irish legends, history and mythology. Nobel Prize for Literature	
② 8:30 to 9:15	F.Y.B.A. English Spl. 3	C. Novel	1. The Old Man and the Sea Mandala: Truly love and respect the old man. A metaphor to Santiago Apprenticeship - learn (fishing, the sea and respect for nature) Santiago's heir-legacy	
③ 9:15 to 10:00	F.Y.B.A. Com. English	Unit 2 Prose	Appro JRD - Sudha Murthy About the author: An Indian technologist, philanthropist and writer. About the text: How she renounced about JRD Tata who gave her first proposal.	
④ 10:10 to 10:55	F.Y.B.A. Addl. English	Unit I	1. Playing the English Gentleman Gandhi changed his dress, cultivated hair style and had a watch of gold chain. He joined dancing, education and French classes but left all of them to be a lawyer.	

Book referred  
 ① Niraga: An Anthology of English Poetry  
 ② Ernest Hemingway: The Old Man and the Sea  
 ③ Success Avenue

Other activities  
 ① Pearls & Bubbles: An Anthology of Prose and Poetry

*T. P. K. Shukla*  
 Signature of the Lecturer



# DAILY RECORD

Date: 26/02/2017

DAY: Friday

Time	Class	Topic	Points covered	Remarks
① 2:45 to 3:30	FRBA Add. English	Unit I	1. Playing the English Gentleman Blossom Comprehension 4. Choose the best option in each of the following. 5. Answer each of the following in a sentence or two.	
② 3:30 to 4:15	FRBA Com. English	Unit I Prose	2. The Lottery Ticket About the Author: Anton Pavlovich Chekhov (1860-1904) He was a doctor. came in contact with all classes of Russian society. social issues, humanism	
③ 4:15 to 10:00	FRBA English Spl. 2	C. Poem	2. Sailing to Byzantium About the poem - World War I I. a general sense of doom and scepticism prevailed and poets gave a voice to these fears. Published in 1928. 2. Sailing to Byzantium Byzantium is a symbol for art, wherein the soul or intellect can live forever. The theme of the poem is that 'youth can enjoy sensuality but age must seek spirituality'. The necessity to spirituality.	
④ 10:10 to 10:35	FRBA English Spl. 2	C. Poem		

Book referred

- 1) Pearls of Wisdom: An Anthology of Prose and Poetry
- 2) Panorama: Values and Skills through Literature
- 3) Mirror: An Anthology of English Poetry

Other activities

*T. P. Khushroo*  
Signature of the Lecturer

# DAILY RECORD

Date: 27/02/2017

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	FRBA English Spl. 3	C. Novel	1. The Old Man and the Sea The Martin & Sandigo's brother - equal and a very worthy opponent. Respect and admiration for the man.	
② 8:30 to 9:15	FRBA Com. English	Unit I Prose	2. The Lottery Ticket About the story - a middle class couple. fantasize about winning a lottery. Husband's dream - Appro JRD	
③ 9:15 to 10:00	FRBA Com. English	Unit 2 Prose	Two photographs in Saha's office ① The man in the blue coat is Bhambu Raha. JRD. Tata. B. Bhabha and white photo is a portrait of Tata.	
④ 10:10 to 10:55	FRBA Add. English	Unit I	2. All the World's a Stage About the Poet - William Shakespeare poem (1590-1616) poet and dramatist. 3 parts of Henry IV. Comedies and tragedies. tragicomedies.	
⑤ 11:40 to 12:35	FRBA English Spl. 3	C. Novel	1. The Old Man and the Sea Joe DiMaggio - Santiago's ideal worshipped him as a model of strength and commitment. Source of Inspiration to ocean Greatness: Despite a painful loss, man's spirit could never be crushed.	

Book referred

- 1) Ernest Hemingway: The Old Man and the Sea
- 2) Panorama: Values and Skills through Literature
- 3) Success Avenue
- 4) Pearls of Wisdom: An Anthology of Prose and Poetry

Other activities

*S. V. V. V.*  
Head  
Dept. of English  
S.S.G.M. College, Kopygaon

*T. P. Khushroo*  
Signature of the Lecturer

## DAILY RECORD

Date: 02/03/2014

DAY: Monday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	SYBA Com. English	Unit 1 Prose	2. The Lottery Ticket His wife's reaction, repulsive and hateful. Her dreams, her own plans, her own reflections. She knows who would be the first to try and grab her winnings. But they came to know that they would not win the ticket. Hatred & hope disappeared. They accepted the harsh reality.	
② 9:15 to 10:00	SYBA Com. English	Unit 2 Prose	Appro IRD Sudha Murthy is a student in PG class in April 1974. She saw an advertisement of Telco where lady candidates need not apply. She wrote to IRD team. She was invited at her firm - Indian where she was selected. IRD was the uncrowned king of Indian industry. She saw him for the first time in Saravali Mestragade's cabin.	

Book referred: ① Panorama: Values and Skills through Literature

② Success Avenue

Other activities

P.P. Choudhary  
Signature of the Lecturer

## DAILY RECORD

Date: 02/03/2014

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	SYBA Com. English	Unit 1 Prose	2. The Lottery Ticket Comprehension. A. Answer the following questions in one sentence each. B. Answer the following questions in about 30-40 words. C. Answer the following questions in about 150 words. Discussion about answers.	
② 9:15 to 10:00	SYBA Com. English Sp. 2	Unit 2 Prose	3. Fidelity About the poem 'Wilfred Owen (1893-1918) - a protective attitude, humanitarian propensities, the heightened sensitivity, he wrote on the conventional subjects of the time. He was enlisted in the Artists' Rifles. Owen was killed in action on 4 <sup>th</sup> November 1918. Influence of Keatsian romanticism. A war-poet - real life experiences in the trenches and combat duty.	

Book referred

① Panorama: Values and Skills through Literature

② Mirage: An Anthology of English Poetry

Other activities

P.P. Choudhary  
Signature of the Lecturer

# DAILY RECORD

Date: 03/03/2011

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	FYBSc English	Unit I	2. All the World's a Stage About the Poem: "As You Like It" (Act II scene vi) Jacques - the character, a cynical philosopher, comments on the more negative aspects of life in terms of seven stages.	
② 8:30 to 9:15	FYBSc English Spl.3	C. Novel	1. The Old Man and the Sea Plot Overview: An epic struggle between an old, seasoned fisherman and the greatest catch of his life. 84 days, Santiago a empty-handed. Marlin was tired to leave the old man. On the 85th day got the Marlin a big fish.	
③ 9:15 to 10:00	FYBSc Com English	Unit 2 Prose	Appro JRD Sudha Murthy talked JRD Tata in one evening when she was waiting for her husband Nandan Murthy. At the third time Sudha Murthy talked with JRD when she was climbing down the steps of the office. JRD asked her to give back to society and never starting difficulties.	

Book referred  
 ① Pearls of Wisdom: An Anthology of Prose and Poetry  
 ② Ernest Hemingway: The Old Man and the Sea  
 ③ Success Avenue

Other activities

M. P. Shrivastava  
Signature of the Lecturer

# DAILY RECORD

Date: 04/03/2011

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	FYBSc English Spl.2	C. Poems	2. Futility About the poem - The bitterness and anguish felt at the unnecessary death of a young soldier. The young boy's death poses before humanity.	
② 8:30 to 9:15	FYBSc English Spl.3	C. Novel	1. The Old Man and the Sea: First Day: (Eighty fourth day) Santiago - 84 days without catching a fish. First 40 days Manolin went with him. Manolin helped him to bring the things back to his home. He took care of Santiago.	
③ 9:15 to 10:00	FYBSc Com English	Unit 2 Prose	Appro JRD Glossary, Comprehension	
④ 10:10 to 10:55	FYBSc Add: English	Unit I	2. All the World's a Stage The metaphor of stage for the world: Man/woman as players. Act - 7 ages ① the Infancy - nurses come ② the winking school-boy	

Book referred  
 ① Mirza: An Anthology of English Poetry  
 ② Ernest Hemingway: The Old Man and the Sea  
 ③ Success Avenue  
 ④ Pearls of Wisdom: An Anthology of Prose and Poetry

Other activities

M. P. Shrivastava  
Signature of the Lecturer

# DAILY RECORD

Date: 05/03/2014

DAY: Friday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	TY:BA English	Unit I	2. All the World's a Stage ② the lover - slaying his former ③ The soldier - strange on the ④ the Justice - fair round belly ⑤ Pandemonium ⑥ second childishness	
② 8:30 to 9:15	SY:BA Conn. English	Unit I Prose	3. The Open Window About the author: Hector Hugh Munro (1874-1916) 'Saki' About the story - The story of Mr. Framton Nuttel. He had history of bad nerves.	
③ 9:15 to 10:00	SY:BA English Spl. 2	C. Poems	2 Fidelity The tone of the poem is ironic, and then tragic, and a feeling of helplessness and futility. The dead soldier can be revived only if the sun decides.	
④ 10:10 to 10:55	SY:BA English Spl. 2	C. Poems	6. A Bird Came Down the Walk About the poet: Emily Dickinson (1830-1862) American poet. Unconventional syntax and structures, full of surprises in thought and imagery. Hence 'mystery'.	

Book referred: ① Poets of Wisdom: An Anthology of Prose and Poetry  
② Panorama: Values and Skills through Literature  
③ Mirrors: An Anthology of English Poetry

Other activities

*P. P. Mishra*  
Signature of the Lecturer

# DAILY RECORD

Date: 06/03/2014

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	TY:BA English Spl. 3	C. Novel	1. The Old Man and the Sea Day Three (Eighty-fifth Day) The old man went to the sea. He decided to go deep in season.	
② 9:30 to 9:15	SY:BA Conn. English	Unit I Prose	Mr. Stetson went to Mrs. Sappleton's house. He met her niece there. She told him her tragedy.	
③ 9:15 to 10:00	TY:BA Conn. English	Unit 3 Prose	Fur - Saki About the Author: Hector Hugh Munro (1874-1916) a British writer. He satirized Edwardian society and culture. Mastery of human foibles.	
④ 10:10 to 10:55	TY:BA Add. English	Unit I	2. All the World's a Stage Glossary Comprehension A whole short answers of the following questions.	
⑤ 11:40 to 12:45	TY:BA English Spl. 3	C. Novel	1. The Old Man and the Sea Day Three (Eighty-sixth Day) The old man was in deep sea. The taut fishing line linked the old man with a big fish. The birds were cut and the Martin was waiting for	

Book referred: ① Ernest Hemingway: The Old Man and the Sea  
② Panorama: Values and Skills through Literature  
③ Success Avenue  
④ Poets of Wisdom: An Anthology of Prose and Poetry

Other activities

*P. P. Mishra*  
Signature of the Lecturer

# DAILY RECORD

Date: 08/03/2017

DAY: Monday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	S.Y.B.A Com. English	Unit I Prose	3. The Open Window Mr. Nuttel believed in Vera about the tragic death of Mrs. Sappleton's husband and two brothers along with a dog. But when they arrived through the French Open Window in the winter evening of October, he wrongly took them as ghosts and run away.	
② 9:15 to 10:00	S.Y.B.A Com. English	Unit 3 Prose	Fur Eleanor and Suzanne are friends. Suzanne has a rich relative - Old Bertram Knight. He is over in England. It is Suzanne's birthday where the rich person would give her present. Suzanne wants to use this chance to get some precious gift. Eleanor helps her to plan to get Fur from Old Bertram Knight as a gift.	

Book referred ① Panorama: Values and Skills through Literature

② Success Avenue

Other activities

*[Signature]*  
Signature of the Lecturer

# DAILY RECORD

Date: 09/03/2017

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	S.Y.B.A Com. English	Unit I Prose	3. The Open Window Comprehension A. Answer the following questions in one sentence each. B. Answer the following questions in about 30-40 words. C. Answer the following questions in about 100 words. Discussion of the answers.	
② 9:15 to 10:00	S.Y.B.A English Spl. I	C-Prose	4. A Bird Came Down the Walk About the poem - The poet's encounter with a bird outside her house. She stops in a moment of observation, establishing a relationship with the bird in that instant. She tries to offer it a crumb of bread or biscuit. It is unclear whether the bird flies towards her or away from her. The fluidity of verse is exemplified in this poem.	

Book referred ① Panorama: Values and Skills through Literature

② Mirage: An Anthology of English Poetry

Other activities

*[Signature]*  
Signature of the Lecturer

# DAILY RECORD

Date: 10/03/2021

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	FTBGM Addi. English	Unit II	1. How Wealth Accumulates and Man Decays About the Author - George Bernard Shaw (1856-1950) a creative writer, literary critic, dramatist, socialist thinker, 50 plays, essays on political and social issues.	
② 8:30 to 9:15	TYBA English Spl.3	K-Novel	1. The Old Man and the Sea Day four (Eighty-Sixth Day) The marlin takes Santiago by jerking the line. Santiago is thrown into the bos of the skiff The old man struggles to take the Marlin on his boat. The marlin continues to glide fur	
③ 9:15 to 10:00	TYBA Com. English Prose	Unit 5	Old Centaurum Knight's house near Gollith and Mastador's square. Eleanor & Suzanne reach to the place to trap and persuade the rich man to purchase fur. Eleanor wants a favour from Suzanne to be her house on the same day to replace her in game that previous	

Book referred

- ① Pearls of Wisdom: An Anthology of Prose and Poetry
- ② Ernest Hemingway: The Old Man and the Sea
- ③ Success Business

Other activities

T. P. Deshpande  
Signature of the Lecturer

# DAILY RECORD

Date: 12/03/2021

DAY: Friday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	FTBGM Addi. English	Unit II	2. How Wealth Accumulates and Man Decays About the text - The essay has been taken from The Intelligent Woman's Guide to Sexism and I. On Another's Woes	
② 8:30 to 9:15	TYBA Com. English	Unit II Poetry	William Blake (1757-1827) poet, painter and engraver The expression of human sympathy is a reflection of God's compassion for his creation.	
③ 9:15 to 10:00	TYBA English Spl. 2	C-Poem	9. A Bird Came Down the Walk The poem is written in blank typical iambic trimeter. There is an occasional extra foot in the third line of each quatrain. A loose rhyme scheme...	
④ 10:10 to 10:55	TYBA English Spl. 2	C-Poem	5. Talking in Their Sleep About the poet - Edith Maude Thomas (1854-1930) an American poet, writing for local newspaper and periodicals. She immediately fell in love with the city and remained there for the rest of her life.	

Book referred

- ① Pearls of Wisdom: An Anthology of Prose and Poetry
- ② Panorama: Values and Skills through Literature
- ③ Mirage: An Anthology of English Poetry

Other activities

T. P. Deshpande  
Signature of the Lecturer

# DAILY RECORD

Date: 13/03/2014

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	FYBA English Sp1.3	Classical	1. The Old Man and the Sea Day Five (Eighty-Eighth Day) Manolin goes to fetch coffee to the old man.	
② 8:30 to 9:15	FYBA Com English	Unit II Poetry	1. On Another's Sorrow William Blake gives examples when the God comes near the human being & helps him to bear the pain like woman fur	
③ 9:15 to 10:00	FYBA Com English	Unit 3 Prose	Eleanor takes a chance to suggest Old Boston knight to purchase a fan as gift. But she tells her hesitation in gift fur	
④ 10:10 to 10:55	FYBA Add. English	Unit II	1. How Wealthy Accumulates and Men Decay Our helplessness in the present world of Capitalism, example of fur	
⑤ 11:40 to 12:05	FYBA English Sp1.3	Classical	1. The Old Man and the Sea Analysis of the first day (8th Day) and the second day (8th Day). The man lives as an outsider. He is mocked at by the other fishermen. Santiago poses his qualities that Manolin perceives him fur	

Book referred  
 ① Ernest Hemingway: The Old Man and the Sea  
 ② Panorama: Values and Skills through Literature  
 ③ Success Avenue

Other activities  
 ④ Poets of Freedom! An Anthology of Prose and Poetry

T.P. Kishore  
 Signature of the Lecturer

# DAILY RECORD

Date: 15/03/2014

DAY: Monday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	FYBA Com English	Unit II Poetry	2. Laugh and be Merry John Massfield (1878-1953) On vestiges of verse The poem urges people to be cheerful and spread good cheer in the world. A merry disposition can save people and make the world a better place, despite blows and bruises. God adds delight in the world.	
② 9:15 to 10:00	FYBA Com English	Unit 3 Prose	Fur Eleanor successfully gets a fan as gift but Suzanne gets a fan. Glossary, Comprehension A. Read the extract and answer the questions that follow. B. Answer the following questions in sentences each. C. Answer the following questions in about 30-40 words each. D. Answer the following questions.	

Book referred  
 ① Panorama: Values and Skills through Literature  
 ③ Success Avenue

Other activities

T.P. Kishore  
 Signature of the Lecturer

# DAILY RECORD

Date: 16/03/2021

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	F.Y.B.A Com. English	Unit II Poetry	2. Laugh and Be Merry The poet asks to better the world with a song, with a blow in the teeth of a wrong. The time is brief. God made this world for joy & merriment. We have to drink from the deep blue cup of the sky. We have laugh, battle and work. He gives an example of gushing water in a cup. 5. Talking in their Sleep About the poem: Published in 1885 On the surface it seems to be a beautiful exposition on the nature of life and survival and how everything or everyone seems to stand in judgement on something or somebody else. The apple tree, the grass and the flower all seem to be saying similar things on how things are not what they appear to be. On the surface they are dead.	
② 9:15 to 10:00	F.Y.B.A English Spl. 2	C-Prose		

Book referred ① Pavlovsk: Values and Skills through Literature

② Mirage: An Anthology of English Poetry

Other activities

M. P. Sharma  
Signature of the Lecturer

# DAILY RECORD

Date: 17/03/2021

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 8:45 to 9:30	F.Y.B.A Addi. English	Unit II	1. How Wealth Accumulates and Man Decays Countering the argument of Adam Smith about individualism. Many think like John Ruskin, William Morris and the poet. Oscar Wilde with talk about decay.	
② 9:30 to 9:15	F.Y.B.A English Spl. 3	C-Novel	1. The Old Man and the Sea Analysis: The third day (Genius) The fourth day (Suffering) and The fifth day (Karma). Santiago's feeling of brotherhood with the natural things. The fall of man's pride and the optimistic look.	
③ 9:15 to 10:00	F.Y.B.A Com. English	Unit 4 Poetry Prose	After Twenty Years About the author: O. Henry - William Sydney Porter (1862-1918) North Carolina. O. Henry Memorial Award. About the text: It tells the tale of two friends separated in childhood while pursuing their dreams and making a pact.	

Book referred

- ① Pearls of Wisdom: An Anthology of Prose and Poetry
- ② Ernest Hemingway: The Old Man and the Sea
- ③ Success Avenue

Other activities

M. P. Sharma  
Signature of the Lecturer



# DAILY RECORD

Date: 13/03/2021

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	S.Y.B.A English Spl. 2	c. Poem	5. Talking in Their Sleep A meditation on judgement and the constant need to prove oneself better than someone or something else. But the poem.	
② 8:30 to 9:15	S.Y.B.A English Spl. 3	c. Novel	L. The Old Man and the Sea Motif: A word/phrase repeated throughout the work ① Dreams, ② Joe DiMaggio, ③ Luck, ④ Baseball, ⑤ Self.	
③ 9:15 to 10:00	S.Y.B.A Com. English	Unit 4 Prose	After Twenty Years The policeman on the beat moved. He happened to see a man at a closed door of haberdashery. The man told him that he was waiting for his friend.	
④ 10:10 to 10:55	S.Y.B.A Addl. English	Unit II	I. How Wealth Accumulates and Men Decay Shows gives another example of making clothes from wool. The women in old days were known as spinster defects of	

Book referred: ① Mirza: An Anthology of English Poetry  
② Ernest Hemingway: The Old Man and the Sea  
③ Success Awards

Other activities: ① Pearls of Wisdom: An Anthology of Prose and Poetry

M.P. Shinde  
Signature of the Lecturer

# DAILY RECORD

Date: 14/03/2021

DAY: Friday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	S.Y.B.A Addl. English	Unit II	I. How Wealth Accumulates and Men Decay Glossary / Comprehension A. Choose the best option in each of the following B. Answer each of the following questions 3. The Rock and the Pebble About the author: Louise May Alcott (1832-88) About the poem: The meaninglessness of vanity. True strength - humility and gentleness.	
② 8:30 to 9:15	S.Y.B.A Com. English	Unit II Poetry	6. What is life	
③ 9:15 to 10:00	S.Y.B.A English Spl. 2	c. Poem	About the poet: John Clare (1793-1864) An English poet. The celebrations of the English countryside and corners as its distinctive features and a rural childhood.	
④ 10:10 to 10:55	S.Y.B.A English Spl. 2	c. Poem	6. What is life About the poem: Foundational questions - series of vivid images of nature and seasonality which life is, what death is, what trouble and hope are. The poem's circular nature has us returning to meditation.	

Book referred: ① Pearls of Wisdom: An Anthology of Prose and Poetry  
② Panorama: Values and Skills through Literature  
③ Mirza: An Anthology of English Poetry

Other activities

M.P. Shinde  
Signature of the Lecturer

# DAILY RECORD

Date: 30/03/2021

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 2:45 to 3:30	FRBA English Spl.3	C.Novel	1. The Old Man and the Sea Metaph: Consecration Imagery - The profundity of the old man's sacrifice - Life from Death	
② 3:30 to 9:15	FRBA Com. English	Unit II Poetry	3. The Rock and the Bubble The Rock is in the sea - Humble - Bubble - arrogant and cold in the rock. The rock saved this child	
③ 9:15 to 10:00	FRBA Com. English	Unit 4 Prose	After Twenty Years Before twenty years he had promised his friend that they will meet them after twenty years at the same place sometime.	
④ 10:10 to 10:55	FRBA Add. English	Unit II	2. My Grandmother's House About the Rock - Kannada film (1954-56) Indian poet, Her lived voice, women's issues, confessional elements	
⑤ 11:40 to 12:15	FRBA English Spl.3	C.Novel	1. The Old Man and the Sea Symbolism:- Multiple layers of meaning. ① Santiago - every man, Jesus Christ, 40 days without fish, Cuts on his hands ② Dreams about lions; playfulness	

Book referred  
 ① Ernest Hemingway: The Old Man and the Sea  
 ② Panorama: Values and Skills through Literature  
 ③ Success Avenue

Other activities  
 ④ Pearls & Wisdom: An Anthology of Prose and Poetry

*P. P. Chakraborty*  
 Signature of the Lecturer

# DAILY RECORD

Date: 31/03/2021

DAY: Monday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	FRBA Com. English	Unit III Grammar	1. Question tags - Short questions, added onto statements for the purpose of asking for the listener's confirm- ation or agreement. Structure of question tag - and Followed by a pronoun corresponding to the subject of the statement. The tense is always same in the sentence. The auxiliary appears in the question tag. e.g. example from our text: After Twenty Years	
② 9:15 to 10:00	FRBA Com. English	Unit 4 Prose	After Twenty Years The policeman sees his face and goes to complete his course. After sometimes a tall man comes near to him and confirms that he is Bob. The man is surprised to notice his height. But he is taken aback when he sees the nose of the so called 'Bob'. Because twenty year can change his height but not the nose. He was wrong!	

Book referred  
 ① Panorama: Values and Skills through Literature  
 ② Success Avenue

Other activities

*P. P. Chakraborty*  
 Signature of the Lecturer

# DAILY RECORD

Date: 20/03/2014

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	T.Y.B.A Com. English	Unit III Grammar	1. Question Tag If the finite verb in the statement consists of only a main verb, the auxiliary 'do' functions as the verb in the tag. Examples When questioning follow statements with indefinite pronouns like 'anyone' and 'nobody', the pronoun 'they' is used in the tag. All positive statements are followed by a negative tag and negative statements take a positive tag. E. What is life	
② 9:15 to 10:00	T.Y.B.A English Spl. 2	C. Poem	The tone of the poem is not entirely hopeful, nor is it entirely bleak. There are moments of beauty that come with the imagery, as demonstrated by the poet's pronouncements that at times none of this is permanent. The only happiness which is true is the one we achieve after we die. Everything else is just illusion. The poem is divided into five stanzas. . . .	

Book referred

- ① Panorama: Values and Skills through Literature  
② Mirage: An Anthology of English Poetry

Other activities

*M. J. Shrivastava*  
Signature of the Lecturer

# DAILY RECORD

Date: 24/03/2014

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 8:45 to 9:30	T.Y.B.Com Addi. English	Unit II	2. My Grandmother's House About the Poem - Her grandmother's house, a place where she once was loved and was happy to live. Grandmother's death, she is unhappy and disillusioned with her life. ① The Old Man and the Sea Symbolism - ② The Martin - The ideal opponent, life's torment ③ The seven sharks - whole enemy exploiters, individual creature ④ Joe DiMaggio - ⑤ Alchem ⑥ Religious numbers - 7, 3, 5, 4	
② 9:30 to 9:45	T.Y.B.A English Spl. 2	C. Novel	After Twenty Years Glossary, Comprehension A. Read the extract and answer the questions given below. B. Answer the following questions in one sentence each. C. Answer the following question about 30-40 words each. ② Answer the following questions	
③ 9:45 to 10:00	T.Y.B.Com English	Unit 4 Prose		

Book referred

- ① Pearls of Wisdom: An Anthology of Prose and Poetry  
② Ernest Hemingway: The Old Man and the Sea  
③ Success Stories

Other activities

*M. J. Shrivastava*  
Signature of the Lecturer

## DAILY RECORD

Date: 26/03/2021

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 2:45 to 3:30	5Y8A English Sp. 2	C-Poem	2. Sympathy About the poet: Paul Laurence Dunbar (1892-1906) an African- American poet. Dunbar worked as an elevator operator. He was a prolific writer. i. The Old Man and the Sea Themes:- ① Heroism; endless struggle with illusory rewards Success:- Even if the prize is lost the person has won the battle. Struggle:- bravery, confidence.	
② 3:30 to 5:15	7Y8A English Sp. 3	C-Novel	① Captain! My Captain! Walter Whitman (1819-92) American poet. 'Leaves of Grass' About the poem: It is an elegy to mourn the death of Abraham Lincoln.	
③ 9:15 to 10:00	7Y8A Com. English	Unit 1 Poetry		
④ 10:10 to 10:55	5Y8A Addi. English	Unit II	2. My Grandmother's House She described a heaven that is far away. She received love from her grandmother. But the house will draw into silence. Also the snakes moved among the leaves.	

- Book referred
- ① Mirage: An Anthology of English Poetry
  - ② Ernest Hemingway: The Old Man and the Sea
  - ③ Success Accedes
- Other activities
- ④ Pearls of Wisdom: An Anthology of Prose and Poetry

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Signature of the Lecturer

## DAILY RECORD

Date: 26/03/2021

DAY: Friday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	5Y8A Addi. English	Unit II	2. My Grandmother's House The eyes of the house i.e. the windows are closed now. The air is frozen, there is darkness. She desires to bring that darkness.	
② 8:30 to 9:15	5Y8A Com. English	Unit III Grammar	1. Question tags Exercises a. Rewrite the following sentences, adding question tags to them. Remember to place a comma before question tags and the preceding statement.	
③ 9:15 to 10:00	5Y8A English Sp. 2	C-Poem	2. Sympathy About the poem - Published in 1899. The poem is an allegory re- volving around the pain of cap- tivity and uses the metaphor of a caged bird to express his pain.	
④ 10:10 to 10:55	5Y8A English Sp. 2	C-Poem	2. Sympathy The poet shows how in yearning for freedom the bird ends up only hurting itself. While it may appear that the caged bird tries to express its joy, the free bird feels more than the captive. It actually speaks	

- Book referred
- ① Pearls of Wisdom: An Anthology of Prose and Poetry
  - ② Pansorama: Values and Skills Through Literature
  - ③ Mirage: An Anthology of English Poetry
- Other activities

*[Signature]*  
Signature of the Lecturer

# DAILY RECORD

Date: 27/03/2014

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	TY:BA English Spl. 2	C-Novel	1. The Old Man and the Sea Themes :- Defeat :- Man is not made for defeat Worthiness :- dignity, decency	
② 8:30 to 9:15	TY:BA Com. English	Unit III Grammar	2. Simple Compound and Complex Sentences Simple sentence, a subject and a predicate - that has only one finite verb i.e. (a simple clause)	
③ 9:15 to 10:00	TY:BA Com. English	Unit I Poetry	1. Captain / My Captain Whitman has used the metaphor of ship when for the country where the leader is considered as captain who dies recently	
④ 10:10 to 10:55	TY:BA Advi. English	Unit II	2. My Grandmother's House Glossary, Comprehension A. Write short answers for the following questions	
⑤ 11:40 to 12:55	TY:BA English Spl. 3	C-Novel	1. The Old Man and the Sea An Allegory - Santiago's struggle is the human condition (struggle in a sea of unknown) His endurance to show nobility the human endeavor in extreme side. Man will not only endure but he will prevail!	

Book referred ① Ernest Hemingway: The Old Man and the Sea  
② Panorama: Values and Skills through Literature  
③ Success Avenue  
Other activities ④ Poets of Wisdom: An Anthology of Prose and Poetry

T. P. Shrivastava  
Signature of the Lecturer

# DAILY RECORD

Date: 30/03/2014

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	TY:BA Com. English	Unit III Grammar	2. Simple, Compound and Complex Sentences Compound sentences :- two or more main clauses (these clauses can stand alone as independent sentences) they are linked by coordinating conjunctions. The subject of the second clause can be omitted or replaced with the corresponding pronoun. Examples of coordinating conjunctions used to form compound sentences	
② 9:15 to 10:00	TY:BA English Spl. 2	C-Prose	8. The Awakening About the Poet: James Weldon Johnson (1871-1938) an American writer and civil rights activist, talented poet and novelist. Johnson brought a high standard of artistic and realism to Black literature. A diplomat in Latin America and a successful Tin-pan-Alley songwriter, self-confidence, deep faith, belief were opposition to the Black literature	

Book referred ① Panorama: Values and Skills through Literature  
② Mingle: An Anthology of English Poetry  
Other activities

T. P. Shrivastava  
Signature of the Lecturer

# DAILY RECORD

Date: 31/03/2021

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	FRBA Addl. English	Unit III	1. The Open Window. Solis About the Author: - Hector Hugh Munroe (1870-1910) English writer. He travelled all over Europe, became a journalist, became a soldier. He was a superb storyteller.	
② 8:30 to 9:15	FRBA English Spl.3	C- Novel	1) The Old Man and the Sea Autobiographical elements. Hemingway's birth and development framed his personality like Santiago. During 1940 to 1950 he was not able to publish any novel as like as Santiago not give him any opportunity.	
③ 9:15 to 10:00	FRBA Com. English	Unit I Poetry	① Captain! My Captain! The journey is the freedom struggle. He feels sorry that the Captain of the ship, a Abraham Lincoln dies. The flag is flying. He describes the dead body of the captain. The ship is anchored safe and sound but the Captain is sold.	

Book referred: ① Pearls of Wisdom: An Anthology of Prose and Poetry  
② Ernest Hemingway: The Old Man and the Sea  
③ Success Avenue 1

Other activities

S.K. (Signature)

Head  
Dept. of English  
S.S.G.M. College, Kopergaon

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Signature of the Lecturer

# DAILY RECORD

Date: 01/04/2021

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 8:45 to 9:30	FRBA English Spl. 2	C- Poem	2. The Bunkhouses About the poet: - Published in 1970 in 'Fifty Years and Other Poems'. Love poem, extended metaphor signalling the awakening of love. L. The Old Man and the Sea Mrs. Across the River and into the Trees (1950) was criticized and called as like as Santiago <del>is</del> with cicles in the novel.	
② 8:30 to 9:15	FRBA English Spl. 3	C- Novel	His novel 'The Old Man and the Sea' is like 'The Morning for Santiago'. O. Captain! My Captain! Glossary, Comprehension A. Read the following lines and answer the questions below. B. Answer the following questions in a sentence each.	
③ 9:15 to 10:00	FRBA Com. English	Unit I Poetry		
④ 10:10 to 10:55	FRBA Addl. English	Unit III	1. The Open Window About the story: Mr. Brenton Nettel and his visit to the country. He had a history of bad nerves. He went to deliver her sister's letters in the country.	

Book referred: ① Mirage: An Anthology of English Poetry  
② Ernest Hemingway: The Old Man and the Sea  
③ Success Avenue

Other activities: ④ Pearls of Wisdom: An Anthology of Prose and Poetry  
⑤ K. K. Narayana: The Guide

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## DAILY RECORD

Date: 03/04/2021

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	FP:BA English Sp.3	C: Novel	1. The Guide R.K. Narayan (1906-2001) Indian novelist, humour and energy of ordinary life - 14 novels	
② 8:30 to 9:15	FP:BA Com. English	Unit III Grammar	2. Simple, Compound and Complex Sentences Complex sentence - a main clause and one or more subordinate clauses. Subordinate clause can not make sense by themselves and need to be linked to a main clause. They do that by an adjective, an adverb, or a noun.	
③ 9:15 to 10:00	FP:BA Com. English			
④ 10:10 to 10:55	FP:BA Add. English	Unit III	1. The Open Window Mrs. Fenton Nuttall visits Mrs. Sappleton's house. He meets her niece of 15 years of age. She tells him the story of Mrs. Sappleton.	
⑤ 11:40 to 12:25	FP:BA English Sp.3	C: Novel	2. The Guide Introduction: The Guide published in 1928, set in his fictional South Indian town of Malgudi. The Guide won R.K. Narayan several awards. The Indian National Academy of Letters's Sahitya Akademi Award	

Book referred  
 ① R.K. Narayan: The Guide  
 ② Panorama: Values and Skills through Literature  
 ③ Success Avenue

Other activities  
 ④ Pearls of Wisdom: An Anthology of Prose and Poetry

T. P. Mohan  
Signature of the Lecturer

## DAILY RECORD

Date: 05/04/2021

DAY: Monday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	FP:BA Com. English	Unit III Grammar	3. Degree of Comparison Adjectives - describe features of a noun - size, age, color, shape - positive degree. There is comparison of two equal things with 'as... as' Comparative degree - comparative form is always followed by than Superlative degrees - when two or more things are compared for unequal measure - examples. A Prayer for My Daughter About the poet: William Butler Yeats (1865-1933). His poems were influenced by his Irish heritage, and the politics of the times. Mysticism, spiritualism. About the poem - It was published 1921, in the anthology 'Michael Roberts and the Danes'. It is written for his daughter Anne. It is deeply personal poem. It explores with her fears and wishes for his daughter.	
② 9:15 to 10:00	FP:BA Com. English	Unit 2 Poetry		

Book referred  
 ① Panorama: Values and Skills through Literature  
 ② Success Avenue

Other activities

T. P. Mohan  
Signature of the Lecturer

## DAILY RECORD

Date: 06/04/2014

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	ETBA Com. English	Unit III Grammar	3. Degrees of Comparison Comparison of Adverbs. The comparative and the superlative forms of most adverbs of one syllable are formed by adding -er and -est after the positive degree. Example. The comparative and the superlative forms of adverbs that end in -ly are formed by using 'more' and 'most' before the adverbs.	
② 9:15 to 10:00	ETBA English Spl. 2	Rome 8. The Awakening	The poem uses the central metaphor of the rose and the bee where one waits for the other to complete it. The rose (which could be the poet or a Black person) is lonely, overlooked and waiting. It is only when the bee comes that the rose awakens to happiness and love. The rhyme scheme and rhythm are easy, simple and probably meant for soft listening.	

Book referred ① Panorama: Values and Skills through Literature

② Mirage: An Anthology of English Poetry

Other activities

*Prakash*  
Signature of the Lecturer

## DAILY RECORD

Date: 07/04/2014

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	ETBA Add. English	Unit III	1. The Open blinds Mrs. Ingleton came down and talked to Mr. Nettle. But he was less interested in his story. She was waiting for her husband and two brothers along with a dog through open blinds.	
② 8:30 to 9:15	ETBA English Spl. 3	C. Novel	2. The Guide Literary Elements: Genre, First Narrator, Point of view, Voice, Relationship between first person (Raj) and second person, a series of flashback. Tone: direct, ironic. Character: Pragmatist, and intense.	
③ 9:15 to 10:00	ETBA Com. English	Unit 2 Poetry	A Prayer for My Daughter The poet describes the environment around his house. The wind is howling. There is 'damp' or 'in the atmosphere'. His newborn daughter is 'sleeping in her cradle'. The poet prays God the daughter to save her from all these natural difficulties.	

Book referred ① Pearls of Wisdom: An Anthology of Prose and Poetry

② R. K. Narayan: The Guide

③ Success Avenue

Other activities

*Prakash*  
Signature of the Lecturer



## DAILY RECORD

Date: 08/04/2021

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:20	S.Y.B.A English Spl. 2	C-Poems	3. The blind About the poet - Amy Lowell (1894-1925) a poet, performer, editor, and translator. Bring the magic of Ezra Pound to the attention of Americans. 2. The Guide Plot Overview - Raju, a shepherd and a tourist guide, he falls in love with Marco's beautiful wife. Roster Raju's forgery leads him to imprisonment and then a saint. A Prayer for My Daughter W.B. Yeats prays God that not to make her too beautiful while exploring the tragic end of Helen as well as beautiful Queen of love. He asks her to make her simple.	
② 8:30 to 9:15	S.Y.B.A English Spl. 3	C-Novel	Plot Overview - Raju, a shepherd and a tourist guide, he falls in love with Marco's beautiful wife. Roster Raju's forgery leads him to imprisonment and then a saint. A Prayer for My Daughter W.B. Yeats prays God that not to make her too beautiful while exploring the tragic end of Helen as well as beautiful Queen of love. He asks her to make her simple.	
③ 9:15 to 10:00	S.Y.B.A Com. English	Unit 2 Poetry	W.B. Yeats prays God that not to make her too beautiful while exploring the tragic end of Helen as well as beautiful Queen of love. He asks her to make her simple.	
④ 10:10 to 10:55	S.Y.B.A Addl. English	Unit III	1. The Open Window Mr. Nuttel assumed that those people were dead in the marsh land as told by Vera. But when they came through the Open window he ran away and Vera explained another story.	

Book referred: ① Mirage; An Anthology of English Poetry  
② R. K. Narayan: The Guide  
③ Success Avenue

Other activities ④ Pearls of Wisdom: An Anthology of Prose and Poetry



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## DAILY RECORD

Date: 09/04/2021

DAY: Friday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	S.Y.B.A Addl. English	Unit III	1. The Open Window Glossary, Comprehension A. Choose the best option in each of the following. B. Answer each of the following in a sentence or two. 2. Degree of Comparison Exercises A. The following table gives the regular degrees of comparison of some words. Fill in the gaps to complete the table. 3. The blind About the poem - This is a poem that does not seek to be anything more than it is. It is a simple, evocative and playful poem describing the wind. 3. The blind The profusion of images, all of which have to do with movement that pepper each stanza. The 3 stanzas all have a simple rhyme scheme that repeats.	
② 8:30 to 9:15	S.Y.B.A Com. English	Unit II Grammar	Exercises A. The following table gives the regular degrees of comparison of some words. Fill in the gaps to complete the table. 3. The blind About the poem - This is a poem that does not seek to be anything more than it is. It is a simple, evocative and playful poem describing the wind. 3. The blind The profusion of images, all of which have to do with movement that pepper each stanza. The 3 stanzas all have a simple rhyme scheme that repeats.	
③ 9:15 to 10:00	S.Y.B.A English Spl. 2	C-Poems	3. The blind About the poem - This is a poem that does not seek to be anything more than it is. It is a simple, evocative and playful poem describing the wind. 3. The blind The profusion of images, all of which have to do with movement that pepper each stanza. The 3 stanzas all have a simple rhyme scheme that repeats.	
④ 10:10 to 10:55	S.Y.B.A English Spl. 2	C-Poems	3. The blind About the poem - This is a poem that does not seek to be anything more than it is. It is a simple, evocative and playful poem describing the wind. 3. The blind The profusion of images, all of which have to do with movement that pepper each stanza. The 3 stanzas all have a simple rhyme scheme that repeats.	

Book referred ① Pearls of Wisdom; An Anthology of Prose and Poetry  
② Panorama; Values and Skills through Literature  
③ Mirage; An Anthology of English Poetry

Other activities



Signature of the Lecturer

# DAILY RECORD

Date: 10/04/2014

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:20	T.Y.B.A. English Spl. 3	C-stone	2. The Guide Characters & Major characters and Minor characters in the novel.	
② 8:30 to 9:15	Gr.B Com. English	Unit IV Vocabulary	1. Collocations: Words that Go Together Noun and adjectives go together some verbs and nouns together some adjectives and nouns go together	
③ 9:15 to 10:00	F.Y.B.Com. English	Unit 2 Poetry	A Prayer for My Daughter The poet wishes that his daughter be married off in a house with tradition. Glossary and Comprehension	
④ 10:10 to 10:55	F.Y.B.Com. Addi. English	Unit III	2. Laugh and Be Merry About the poet - John Macfield (1878-1957) an English Poet, writer - poet laureate of the UK from 1933 till his death	
⑤ 11:40 to 12:25	T.Y.B.A. English Spl. 3	C-stone	2. The Guide Rajiv - Hero of the novel born in Malgudi in a lower-middle class family. Becomes Railway Rajiv for the tourists. His attraction and love for Rosie and life after that	

Book referred  
 ① R. K. Narayan: The Guide  
 ② Panorama: Values and Skills through Literature  
 ③ Success Avenue

Other activities  
 ④ Pearls of Wisdom: An Anthology of Prose and Poetry

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Signature of the Lecturer

# DAILY RECORD

Date: 12/04/2014

DAY: Monday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	T.Y.B.A. Com. English	Unit IV Vocabulary	1. Collocations: Words that Go Together Noun with noun Examples address-book Verb with noun have - bath, develop a habit overcome difficulties Adjectives with nouns Example - curable disease Adverbs with verbs Adjectives and other adverbs - strongly support	
② 9:15 to 10:00	F.Y.B.Com. English	Unit 1 Communication and Life Skills	Letter writing, Report writing and Blog writing Two types of letters ① Personal letters - to friends, relatives, structure - ① The sender, address ② The date ③ The salutation ④ The body of the letter ⑤ The complimentary close ⑥ The signature Samples of Personal letters. ② Official letters - to company for some work-related or business purpose. Structure ① The sender's name ② The date ③ The inside address.	

Book referred  
 ① Panorama: Values and Skills through Literature  
 ② Success Avenue

Other activities

Topology  
Signature of the Lecturer

## DAILY RECORD

Date: 14/04/2021

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	S.Y.B.A English Spl. 2	C- Poems	10. Freedom About the poet: Rabindranath Tagore (1861-1941) → popular Bengali poet, musician and playwright. Noble Prize for literature.	
② 8:30 to 9:15	S.Y.B.A English Spl. 3	C- Novel	2. The Guide Rasie is the daughter of a dancer belongs to lower caste. Marco marries her for the sake of status. Rasie has an affair with Raju. She becomes a dancer. 'Nakti'.	
③ 9:15 to 10:00	F.Y.B.A English	Unit I Communication and Life Skills	Letter Writing Report Writing and Blog Writing ① The salutation, ② The subject, ③ The complimentary close, ④ The signature, ⑤ Reference number, ⑥ The date.	
④ 10:10 to 10:55	F.Y.B.A English	Unit III	2. Laugh and Be Merry About the poem: It is an optimistic poem. encourages people to savour life and enjoy every moment of it. We should appreciate nature's gifts to us.	

Book referred ① Mirage: An Anthology of English Poetry  
② R.E. Norman: The Guide  
③ Success Stories

Other activities ① Pearls of Wisdom: An Anthology of Prose and Poetry

Prakash Pawar  
Signature of the Lecturer

## DAILY RECORD

Date: 16/04/2021

DAY: Friday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	F.Y.B.A English	Unit III	2. Laugh and Be Merry We have to better the world with a song and with a bliss in the teeth of a sorrow. The time is brief, be proud and make this world as 2. Collections: Words that go together	
② 8:30 to 9:15	S.Y.B.A English	Unit IV Vocabulary	Exercises A Tick the combination of words that sound the most natural. B. Combine words from A and B to form commonly used collocations.	
③ 9:15 to 10:00	S.Y.B.A English Spl. 2	C- Poems	10. Freedom About the poem: This is a powerful rallying cry for freedom at a time when the people of the subcontinent were actively trying to end the British Raj.	
④ 10:10 to 10:55	S.Y.B.A English Spl. 2	C- Poems	10. Freedom Tagore's reformist and radical thoughts strongly inform this poem. It was specifically written during the Indian Independence struggle. It is a relevant and a moving poem.	

Book referred ① Pearls of Wisdom: An Anthology of Prose and Poetry  
② Paramrama: Values and Skills through Literature  
③ Mirage: An Anthology of English Poetry

Other activities

Prakash Pawar  
Signature of the Lecturer

## DAILY RECORD

Date: 17/04/2019

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 7.45 to 8.30	TYBA English Sp3	C-Novel	2. The Guide Marco :- Rosie's husband and Autoguid's in the novel.	
② 8.50 to 9.15	TYBA Com- English	Unit IV Vocabulary	2. Phrasal Verbs Combinations of a verb and - particle that give a single unit of meaning. Example put off, post- poned, turned up.	
③ 9.15 to 10.00	TYBA Com- English	Unit I Communi- cation and Life Skills	Letter Writing, Report Writing and Blog Writing ⑤ Enclosures ⑥ Copies. Samples of Official letters. Exercise on page No 147	
④ 10.10 to 10.55	TYBA Add. English	Unit III	2. Laugh and Be Merry The splendid joy of the stars - the joy of the earth, we must hurry and drink from the deep bitter cup of the sky	
⑤ 11.40 to 12.35	TYBA English Sp3	C-Novel	2. The Guide ① Velan :- a faithful servant man ② Gaffur :- a chauffeur in Malindi ③ Velan's sister :- half sister ④ Velan's Brother :- unintelligent ⑤ Raja's parents :- Mother & Father	

Book referred ① R. K. Narayan : The Guide  
② Panorama : Values and Skills through Literature  
③ Success Avenue

Other activities ④ Pearls of Wisdom : An Anthology of Prose and Poetry

T. S. Deshpande  
Signature of the Lecturer

## DAILY RECORD

Date: 19/04/2019

DAY: Monday

Time	Class	Topic	Points covered	Remarks
① 8.50 to 9.15	TYBA Com- English	Unit IV Vocabulary	1. Phrasal Verbs ① Phrasal verbs with plain meaning ② Phrasal verbs with idiomatic meaning ③ Phrasal verbs meaning cut off ④ Strengthening meaning ⑤ Primary meaning is changed idea meaning ⑥ Transitive phrasal verbs ⑦ Intransitive phrasal verbs Examples of phrasal verbs with their meaning.	
② 9.15 to 10.00	TYBA Com- English	Unit I Communi- cation and Life Skills	Letter Writing, Report Writing and Blog Writing Report Writing - Types of Reports ① Newspaper Reports Features and Examples of it ② Reports of Experiments and Processes. Aim, Apparatus, Prin- ciple, Procedure, Observations, and Conclusions. Examples of these types of Reports ③ Official Reports - Structure A from B, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z ④ Abstract & Bibliography & Signature	

Book referred ① Panorama : Values and Skills through Literature  
② Success Avenue

Other activities

T. S. Deshpande  
Signature of the Lecturer

## DAILY RECORD

Date: 20/04/2017

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	SYBA Com English	Unit II Vocabulary	1. Phrasal Verbs Exercises A Fill in the blanks with correct phrasal verbs chosen from those in brackets. B Rewrite the sentences using phrasal verbs that include the words in brackets. Examples of above questions for explanation. The multiple choice questions that can be framed on phrasal verbs.	
② 9:15 to 10:00	SYBA English Spl. 2	c-8000	11. Caged Bird About the poet; Maya Angelou (1929-2014) an American poet, storyteller, activist, and autobiographer, a singer, dancer, actress, composer and Hollywood's first female black director, a writer, editor, essayist, playwright and poet. The National Medal of Arts by President Bill Clinton, The Presidential Medal of Freedom.	

Book referred

① Panorama: Values and Skills through Literature

② Mirage: An Anthology of English Poetry

Other activities

T. V. Chandan  
Signature of the Lecturer

## DAILY RECORD

Date: 22/04/2017

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 9:30	SYBA English Spl. 2	c-Poems	11. Caged Bird About the poet: The poem speaks of two birds: one trapped in a cage, and the other free and flying in the sky. The trapped bird might represent African American.	
② 9:30 to 9:15	SYBA English Spl. 3	c-Novel	Chapter I: Raju is in a ruined temple. Velan approaches to hear Raju's memories in the jail. His parents' house.	
③ 9:15 to 10:00	FYB Com English	Unit I Communication and Life Skills	Letter Writing, Report Writing and Blog Writing Blog - a website with material of specific topics. The concept of MAB. Example of Blog on MAB. Ethics of Blog writing.	
④ 10:10 to 10:55	FYB Com Addl. English	Unit III	2. Laugh and Be Merry He gives example of Sunday in a poem. Glossary, Comprehension A. Write short answers to the following questions. B. Answer each of the following questions.	

Book referred

① Mirage: An Anthology of English Poetry

② R. K. Narayan: The Guide

③ Success Stories

Other activities

④ Poems of blood: An Anthology of Prose and Poetry

P. H. Chandan  
Signature of the Lecturer

## DAILY RECORD

Date: 23/09/2011

DAY: Friday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 9:30	FY.BCM Addl. English	Unit II	1. The Pleasures of Ignorance. About the Author - Robert Lynd (1894-1999) an eminent Irish essayist, literary critic and a radical Irish nationalist - a journalist, literary editor.	
② 8:30 to 9:15	SY.BA Com. English	Unit II Vocabulary	3. Commonly Confused Words Words with similar spelling and pronunciation but their meaning is completely different. It is called as Malapropism - the wrong use of words. Examples of words	
③ 9:15 to 10:00	SY.BA English Spl. 2	C-Theme	11. Caged Bird The free bird is a white man or woman; the trapped bird represents a subjugated person, a person denied his or her freedom, dignity, freedom	
④ 10:10 to 10:55	SY.BA English Spl. 2	C-Theme	12. Caged Bird Maya Angelou talks about racial discrimination, segregation and domination in this memorable and highly anthologized poem, free verse and an emblematic repetition of stanza words and sounds.	

Book referred ① Pearls of Wisdom: An Anthology of Prose and Poetry  
② Panorama: Values and Skills through Literature  
③ Mirage: An Anthology of English Poetry

Other activities

T. P. Sharma  
Signature of the Lecturer

## DAILY RECORD

Date: 24/09/2011

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	FY.BA English Spl. 3	C-Navd	2. The Guide Chapter II: Raju's childhood days, Velan's happiness...	
② 8:30 to 9:15	SY.BA Com. English	Unit II Vocabulary	3. Commonly Confused Words Examples of commonly confused words from page 46, 132, 138, 139, 149, 151 etc.	
③ 9:15 to 10:00	FY.BA Com. English	Unit 2. Communi- cation and Life Skills	Resume, Writing and E-Mails Essential language for Resume Objectives - job objective clearly Key skills/abilities - specific skills Experience - past employment details Qualifications -	
④ 10:10 to 10:55	FY.BA Addl. English	Unit II	1. The Pleasures of Ignorance About the text - It is an essay contributed to New Studentman / Thinker collection 'The Pleasures of Ignorance' - 1921.	
⑤ 11:40 to 12:25	FY.BA English Spl. 3	C-Navd	2. The Guide Chapter III The railway station at Malgudi. Prosperity to Raju's father. His new shop, a new shed at the Railway platform. Raju's schoolie dropped for being	

Book referred ① K.K. Narayan: The Guide  
② Panorama: Values and Skills through Literature  
③ Success Avenue  
Other activities ④ Pearls of Wisdom: An Anthology of Prose and Poetry

P. P. Sharma  
Signature of the Lecturer

## DAILY RECORD

Date: 26/06/2011

DAY: Monday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	S.Y.B.A Com. English	Unit IV Vocabulary	<p>3. Commonly Confused Words Exercises A) Complete the underlines with an appropriate word chosen from the two in the brackets. from 1 to 10</p> <p>B. Rewrite the following sentences correctly. Examples from ① to ③.</p> <p>Identification of the words that are used incorrectly and the minute difference in their spellings as well as pronunciation.</p>	
② 9:15 to 10:00	S.Y.B.A Com. English	Unit 2 Communication and Life Skills	<p>Resume Writing and E-Mails</p> <p>Personal Profile: name, address, telephone/cell phone numbers, email, date of birth, languages, hobbies and interests</p> <p>References - your achievements</p> <p>Other headings - Honours and awards, Publications, Presentations, In-house seminars, achievements</p> <p>Internship, Career profile.</p> <p>Tips for an Effective Resume</p> <p>Sample of covering letter</p>	

Book referred ① Panorama: Values and Skills through Literature

② Success Avenue

Other activities

*M. P. Kulkarni*  
Signature of the Lecturer

## DAILY RECORD

Date: 27/06/2011

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	S.Y.B.A Com. English	Unit IV Soft Skills	<p>1. Problem-solving Skills</p> <p>Steps to solve a problem -</p> <ol style="list-style-type: none"> <li>1. Identifying the problem</li> <li>2. Managing the problem</li> <li>3. Decision-making</li> </ol> <p>Possible options for solutions to take</p> <p>Gathering information before taking action</p> <p>Deciding on resources (time, funding, staff etc.) to be allocated to solve problem.</p>	
② 9:15 to 10:00	S.Y.B.A English Spl. 2	C-Poems	<p>12. Space Between</p> <p>About the Poet - Judith Arundell Wright (1915-2000) an Australian poet, environmentalist and campaigner for Aboriginal land rights. The Queen's Gold Medal for Poetry in 1991.</p> <p>About the poem - A succinct exploration of the gaps that exist between human beings and possibly humans and the environment around them.</p>	

Book referred ① Panorama: Values and Skills through Literature

② Mirage: An Anthology of English Poetry

Other activities

*M. P. Kulkarni*  
Signature of the Lecturer

## DAILY RECORD

Date: 28/04/2014

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 7.45 to 8.30	F.Y.B.A. English	Unit II	1. The Pleasures of Ignorance We have to find out our ignorance for many things around us. He gives many examples & asks followers to elaborate our ignorance. He says that this ignorance gives us pleasure.	
② 8.30 to 9.15	F.Y.B.A. English	C. Novel	2. The Guide Chapter II: Raju is taken as a helpman by the villagers. Raju arranges teaching for the children. Raju's thinking about his own schooling. Raju develops his hair.	
③ 9.15 to 10.00	F.Y.B.A. English	Unit 2 Comm. Caption and Life Skills	Resume writing and E-Mails Sample & Resume or Certificate write - 2 samples on page notes to 100 Exercise ① Using the sample given in this unit, prepare one for an older relative or friend who is employed. ② Browse the Internet for the biographical details.	

Book referred ① Pearls of Wisdom: An Anthology of Prose and Poetry  
② R. K. Narayan: The Guide  
③ Success Archives

Other activities

*M. K. Narayan*  
Signature of the Lecturer

## DAILY RECORD

Date: 29/04/2014

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
① 7.45 to 8.30	F.Y.B.A. English	C. Poems	12. Space Between The poet speaks of 'faint bridges' that form tenuous connections between one another, yet it is the silence that forms the biggest gaps between us.	
② 8.30 to 9.15	F.Y.B.A. English	C. Novel	2. The Guide Chapter II: Raju's memories has become 'Railway Raju' Raju's meeting with Maria and Rosie. Rosie's interest in Snake dancing.	
③ 9.15 to 10.00	F.Y.B.A. Com. English	Unit 2 Comm. Caption and Life Skills	Resume writing and E-Mails: - speed and convenience Principles to follow while writing emails. Use appropriate tone. Make message interesting and long messages don't get bored.	
④ 10.10 to 10.55	F.Y.B.A. English	Unit II	1. The Pleasures of Ignorance Lynd gives an example of a nationalist who finds many things still gets pleasure by watching the things through his eyes. He gives examples of ignorance of the rest of world.	

Book referred ① Pearls of Wisdom: An Anthology of English Poetry  
② R. K. Narayan: The Guide  
③ Success Archives

Other activities ① Pearls of Wisdom: An Anthology of Prose and Poetry

*M. K. Narayan*  
Signature of the Lecturer



# DAILY RECORD

Date: 30/04/2021

DAY: Friday

Time	Class	Topic	Points covered	Remarks
① 2:45 to 3:30	FR.BG Addl: English	Unit IX	1. The Pleasures of Ignorance Lynch advocates to forget things. It is the quality of good writing that lets writing slip away like sleep from tenses. The pleasure comes as pleasure every year.	
② 3:30 to 5:15	SR.BG Com. English	Unit IX Soft Skills	1. Problem-solving Skills 4. Resolving the problem Implementing actions Providing information to other stakeholders; delegating tasks. 5. Examining the results	
③ 5:15 to 10:00	SR.BG English Spl. 2	C. Poems	1. My Last Duchess Robert Browning - master of the dramatic monologue. The sonnet talks of Ferrara, negotiated the terms of his second marriage.	
④ 10:10 to 10:55	SR.BG English Spl. 2	C. Poems	2. Swelling to Byzantium William Butler Yeats gave a voice to certain fears. The theme of the poem is that "youth can enjoy sensuality, but age must seek spirituality". The journey to spirituality.	

Book referred  
 ① Yeats & Wisdom: An Anthology of Prose and Poetry  
 ② Panorama: Values and Skills through Literature  
 ③ Mirage: An Anthology of English Literature/Poetry

Other activities

SELL (01/21)

Head  
Dept. of English  
S.S.G.M. College, Kopyan

T. P. Vishwanath  
Signature of the Lecturer

1/04/2021 - Holiday (Maharavishim Jyoti Venger Jhu)

# DAILY RECORD

Date: 02/05/2021

DAY: Monday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	SR.BG Com. English	Unit IX Soft Skills	1. Problem-solving Skills Exercises A. Problem-solving skills are important for professional career (explain). To start on the first two steps involved in problem solving? (At least one two steps involved in resolving a problem?) Why is examining result an important step in problem solving?	
② 9:15 to 10:00	FR.BG Com. English	Unit 2 Communication and Life Skills	Resume writing and B. Mails - structure - ① From - The sender's address; ② To - The address of the recipient non-transactional address ③ Cc (Carbon copy or copy) - The list of addresses to which copies are sent ④ Bcc (blind carbon copy): The add-ress will not be seen by the other recipients. ⑤ Subject - Subject of the message Do not leave it blank. ⑥ Message ⑦ Attachments - files can be attached	

Book referred  
 ① Panorama: Values and Skills through Literature

② Success Avenue

Other activities

T. P. Vishwanath  
Signature of the Lecturer

## DAILY RECORD

Date: 09/05/2014

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	F.Y.B.A. Com. English	Unit V Soft Skills	2. Time Management For optimum productivity and success. Control time according to our particular needs. Flexibility to allow for unexpected developments and changed situations. Assessing workload, prioritising, planning and scheduling work, monitoring progress and taking quick action to make up for unexpected delays. Identify time-wasting activities.	
② 9:15 to 10:00	F.Y.B.A. Com. English Spl. 2	C. Gems	3. Futility Wilfred Owen focuses upon the bitterness and anguish felt at the untimely death of a young soldier. Before the war, this soldier who worked in the fields as a farmer was assisted by the sun working him and doing his work in the fields. The sun helped him in creative work, the sun's rays guided and supports kindness and life, not cruelty and death.	

Book referred

① Panorama: Values and Skills through Literature

② Mirrors: An Anthology of English Poetry

Other activities

M. K. Sharma  
Signature of the Lecturer

## DAILY RECORD

Date: 05/05/2014

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	F.Y.B.A. Add. English	Unit IV	1. The Pleasures of Ignorance Glossary, Comprehension A. Choose the best option in each of the following. B. Answer each of the following in a sentence or two. 2. Answer each of the following	
② 8:30 to 9:15	F.Y.B.A. Com. English Spl. 3	C. Novel	2. The Guide Chapter VI Raju passes a good time in the temple. Raju's guidance to the people. The nightmare phase of the village. Raju's fasting.	
③ 9:15 to 10:00	F.Y.B.A. Com. English	Unit 3 Communication and Life Skills	Non-Verbal Communication - signifies the body language - i.e. Postures, gestures, facial expression. The five broad components of it: ① Kinesics: - gestures, postures, facial expressions, etc. - Gestures - to show emotions. - Postures - reflect your state of mind, attitude, etc. - Eye contact - track a blank caption.	

Book referred

① Pearls of Wisdom: An Anthology of Prose and Poetry  
② R. K. Narayan: The Guide  
③ Success Avenue

Other activities

M. K. Sharma  
Signature of the Lecturer

# DAILY RECORD

DAY: Thursday

Date: 06/05/2011

Time	Class	Topic	Points covered	Remarks
① 2:45 to 3:30	SYBA English Spl. 2	C. Poems	4. A Bird Came Down the Walk Emily Dickinson describes her encounter with a bird outside her house. She stops in moments of observation.	
② 3:30 to 3:45	SYBA English Spl. 3	C. Novel	2. The Guide Chapter III: Raju's affinity towards Rosie. His intrusion in the marital life of Marwa and Rosie. Marwa's interest in the caves and departing from Raju.	
③ 3:15 to 10:00	SYBA Com. English and Life Skills	Unit 3 Communication and Life Skills	Non-verbal Communication ③ Proxemics: The distance that we keep from others during the communication process and check the relationship we share with the receiver of the message.	
④ 10:10 to 10:55	SYBA English Spl. 2	Unit II	2. Two Daffodils About the poet: Robert Herrick (1591-1633) a 17 <sup>th</sup> c. English poet, clergyman. He was ordained a priest, a remote country parish. His poetry was spiritual and philosophical in nature.	

Book referred: ① Pirage: An Anthology of English Poetry  
② P. C. Narayan: The Guide  
③ Singapore Success

Other activities: ④ Points of Wisdom: An Anthology of Prose and Poetry

P. K. Lakshmi  
Signature of the Lecturer

# DAILY RECORD

DAY: Friday

Date: 07/05/2011

Time	Class	Topic	Points covered	Remarks
① 2:45 to 3:30	SYBA English Spl. 2	Unit IV	2. Two Daffodils About the poet: The central message is "Life is short, the world is beautiful, love is splendid and we must use the opportunities we have to make the most of it."	
② 3:30 to 3:45	SYBA Com. English Skills	Unit II Soft Skills	2. Time Management Example of two persons working in the same company with similar job profile. Karthik is organised because of time management, whereas Pranjay is not organised.	
③ 3:15 to 10:00	SYBA English Spl. 2	C. Poems	6. Talking in Their Sleep Edith Mafield Thomas meditates on judgement and the constant need to prove oneself better than someone or something else. No one ever knows the procedure of what is life.	
④ 10:10 to 10:55	SYBA English Spl. 2	C. Poems	John Clare meditates on a number of foundational questions - what is life, what death is, what trouble and hope are. The poem is circular in nature.	

Book referred: ① Points of Wisdom: An Anthology of Prose and Poetry  
② Pirage: An Anthology of English Poetry  
③ Pirage: An Anthology of English Poetry

Other activities

P. K. Lakshmi  
Signature of the Lecturer

# DAILY RECORD

Date: 08/05/2017

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 9:30	TYBA English Spl 3	C-Novel	2. The Guide Chapter VIII Rosie at Raju's house. Raju's uncle, his objection for Rosie's stay in the house.	
② 8:30 to 9:15	TYBA Com. English	Unit II Soft Skills	1. Time Management Some tips of time management exercises. Why is time management an important soft skill?	
③ 9:15 to 10:00	TYBA Com. English	Unit 3 Communication and Life Skills	Non-verbal Communication ① Chronemics - It deals with time. The way we structure and use time conveys our personality and attitude.	
④ 10:10 to 10:55	TYBA Add. English	Unit III	2. Two Daffodils The daffodils 'is a metaphor for the children who wait for their untimely death. The poet feels sorry for them.	
⑤ 11:40 to 12:30	TYBA English Spl 3	C-Novel	2. The Guide Chapter IX Rosie's fame as dancer, her surname 'Nalini'. Raju's status in the society. Raju purchases a big house. Marco's presents to Rosie.	

Book referred to:  
 ① R.K. Narayan: The Guide  
 ② Panorama: Values and Skills through Literature  
 ③ Success Avenue

Other activities:  
 ④ Pearls of Wisdom: An Anthology of Prose and Poetry

P. P. Chaudhary  
 Signature of the Lecturer

# DAILY RECORD

Date: 10/05/2017

DAY: Monday

Time	Class	Topic	Points covered	Remarks
① 8:20 to 9:15	TYBA Com. English	Unit I Prose	1. The Chicago Speech 2. The Lottery Ticket 3. The Open Window Revision of the above prose passages. The authors of these passages. The summary of main discussion of possible multiple choice questions on these prose passages and their answers.	
② 9:15 to 10:00	TYBA Com. English	Unit 3 Communication and Life Skills	Non-verbal Communication ① Paralanguage: - Vocal qualities i.e. volume, pitch, rate, pronunciation, stress and intonation patterns. The quality of the voice determines the effectiveness of the message. Example: A high pitch reflects helplessness, insecurity and nervousness. The tone reveals disbelief, astonishment or a questioning attitude. Recording your voice and comparing it to an effective voice.	

Book referred to:  
 ① Panorama: Values and Skills through Literature

② Success Avenue

Other activities

P. P. Chaudhary  
 Signature of the Lecturer

## DAILY RECORD

Date: 11/05/2014

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
① 8:30 to 9:15	ETBA Gen. English	Unit II Poetry	1. On Another's Sorrow 2. Laugh and be Merry 3. The Rock and the Bubble Revision of the above poems. The authors/poets of these poems. The main arguments in these poems. Discussion of the summary and possible multiple choice questions with their possible answers.	
② 9:15 to 10:00	ETBA English Spl. 2	C. Poems	7. Sympathy Paul Laurence Dunbar was an African-American poet. The poem is an allegory revolving around the pain of captivity and uses the metaphor of a caged bird to express this pain. The poet shows how in yearning for freedom the bird ends up only hurting itself. While it may appear that the caged bird sings to express this joy.	

Book referred ① Panorama: Values and Skills through Literature

② Mirage: An Anthology of English Poetry

Other activities

*M. K. Narayan*  
Signature of the Lecturer

## DAILY RECORD

Date: 12/05/2014

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	ETBA Add. English	Unit II	2. Two Daffodils Robert Herrick describes our life - that our life is short like spring, we have to die. But the 'daffodils' death is successful as they die in hours <del>to</del> morning dew.	
② 8:30 to 9:15	ETBA English Spl. 3	C. Novel	2: The Guide Chapter X Raju is in lockup. The cliff between Raju and Raju Raju evokes a celebrity lawyer. The court trial of the case. Raju's imprisonment for 2 years.	
③ 9:15 to 10:00	ETBA Gen. English	Unit 3 Communication and Life Skills	Non-Verbal Communication ① Appearance: One's appearance put in receiver in a receptive or a hostile mood. It forms the first impression of a presenter in the minds of the audience. A well-dressed, elegant person therefore makes a good impression on the audience.	

Book referred ① Harts of Wisdom: An Anthology of Prose and Poetry  
② R.K. Narayan: The Guide  
③ Success Address

Other activities

*M. K. Narayan*  
Signature of the Lecturer

## DAILY RECORD

Date: 14/05/2021

DAY: Friday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	TYBA Addi- English	Unit IV	2. Two Daffodils Glossary, Comprehension A. Answer the following question B. Answer each of the following questions in about 100 words.	
② 8:30 to 5:15	TYBA Com. English	Unit III Grammar	1. Question Tags 2. Simple, Compound and Complex Sentences 3. Degrees of Comparison Discussion on questions & answers	
③ 8:15 to 10:00	TYBA English Spl. 2	C. Bams	3. The Awakening James Weldon Johnson's poem can be read as both a simple and beautifully rendered like poem. It is signalling the awakening of Black literature	
④ 10:10 to 10:55	TYBA English Spl. 2	C. Bams	3. The blind Amy Lowell describes the world in this simple, evocative and playful poem. She uses pro- fusion of images, all of which have to do with movement. The 3 stanzas have a single theme.	
Book referred ① Pearls of Wisdom: An Anthology of Prose and Poetry ② Panorama: Values and Skills through Literature ③ Mirage: An Anthology of English Poetry				
Other activities				

M. P. Shinde  
Signature of the Lecturer

## DAILY RECORD

Date: 15/05/2021

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
① 7:45 to 8:30	TYBA English Spl. 3	C. Novel	The Guide Chapter XI Rain describes the story to Velam. He fasting for the rain.	
② 8:30 to 9:15	TYBA Com. English	Unit III Vocabulary	1. Collocations: Words that Go Together 2. Phrasal Verbs 3. Commonly Confused Words	
③ 9:15 to 10:00	TYBA Com. English	Prose	Unit 1. Indra Nooyi: A Corporate Giant Unit 2. Appro JRD Unit 3. Furr Unit 4. After Twenty Years	
④ 10:10 to 10:55	TYBA Addi. English	Unit I	1. Playing the English Gentleman The multiple choice question 2. All the World's a Stage The multiple choice question	
⑤ 11:40 to 12:25	TYBA English Spl. 3	C. Novel	2. The Guide Themes: 1. The central idea ① Hypocrisy, ② Dishonesty ③ Materialism ④ Transfor- mation ⑤ Past and Present ⑥ Karma, ⑦ Fatalism	
Book referred ① K. K. Narayan: The Guide ② Panorama: Values and Skills through Literature ③ Success Avenue ④ Pearls of Wisdom: An Anthology of Prose and Poetry				
Other activities				

M. P. Shinde  
Head  
Dept. of English  
S.S.G.M. College, Kopergaon

M. P. Shinde  
Signature of the Lecturer

"Education through self help is our motto" - Karmaveer



Rayat Shikshan Sanstha's

S. S. G. M. Science, Gautam Arts & Sanjivani  
Commerce College, Kopargaon. Dist. - Ahmednagar

**TEACHER'S DIARY**

( YEAR : 2021 - 2022 )

Name of the Lecturer Mr. Gawali U.B.

Subject Mathematics

Shriram, 7588693955

# S. S. G. M. Science, Gautam Arts & Sanjivani Commerce College,

Kopargeon. Dist.- Ahmednagar

## PERSONAL RECORD

Name in full : Mr. Gawali Uttam Bala.

Qualification : M.Sc, B.Ed, SET.

Department : Mathematics. Designation : Assistant professor.

Date of appointment : 06/01/2020. Present grade : 59400/61100 (6000)

Residential address : AP - Shedgaon, Tal - Shrigonda, Dist. - A. Nagar.

Phone number : 

9	8	9	0	8	3	7	1	8	4
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Blood group : 

B +ve.
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Chairman / Member of committees of the college / University

Sr. No.	Name of the Committee	Chairman / Member
1.	NAAC Criterion - VI	<del>Chairman.</del> Member.
2.	Staff Academy	Chairman.
3.	Academic Planning	Member.
4.	Cultural Activities.	Member
5.	Competitive Examination	Member.
6.	Alumni Association	Member.
7.	Short Term Courses.	Member.
8.	Grievance Redressal Cell	Member.



### Allotment of Work ( I - Term)

Sr. No.	Class	Theory / Practical Paper No.	Title	Work load
1	S.Y.B.Sc	Theory paper - I	Calculus of several variables	03
2	S.Y.B.Sc	Practical Paper - III	Practical	03
3	T.Y.B.Sc	Theory paper - III	Group Theory	03
4	T.Y.B.Sc	Practical Paper - III	Based on III of III	03
5	T.Y.B.Sc	Theory paper - VI	Number theory	03
6	T.Y.B.Sc	Practical Paper - III	Based on III of VI	03

Total = 18 per Week.

### Allotment of Work ( II - Term)

Sr. No.	Class	Theory / Practical Paper No.	Title	Work load
1	S.Y.B.Sc	Theory paper - I	Linear Algebra	03
2	S.Y.B.Sc	Practical Paper - III	Maths Practical	03
3	T.Y.B.Sc	Theory Paper - III	Ring Theory	03
4	T.Y.B.Sc	Practical Paper - III	Based on III of III	03
5	M.Sc-II	Theory paper - IV	Number theory	06

Total = 18 per Week.

### Monthly Report

Sr. No.	Month	Teachers Signature	Remark	Sign. of Head of the department
1	Oct		Syllabus completed	
2	Nov		-I-	
3	Dec		-II-	
4	Jan		-I-	
5	Feb		-I-	
6	Mar		-II-	
7	Apr		-I-	
8	May		-I-	
9	June		-I-	

Signature  
of the faculty incharge

Head  
Department of Mathematics Principal

### Time Table (I-Term)

Sr. No.	Time	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
1.	10:55 to 11:40.	T.Y.B.Sc A-101	-	-	-	-	-
2.	11:40 to 12:25	T.Y.B.Sc A-101.	-	T.Y.B.Sc A-101	T.Y.B.Sc A-101	-	-
3.	12:25 to 01:10.	-	S.Y.B.Sc A-101.	T.Y.B.Sc A-101.	T.Y.B.Sc A-101.	S.Y.B.Sc A-310.	T.Y.B.Sc A-101.
4.	01:10 to 01:55.	S.Y.B.Sc. A-310.	-	-	-	T.Y.B.Sc A-101.	-
5.	01:55 to 2:15.	Short Recess.					
6.	2:15 to 03:00.	-	-	-	-	T.Y.B.Sc A-101.	-
7.	03:00 to 03:45	-	-	S.Y.B.Sc A-206.	-	-	S.Y.B.Sc A-206.
8.	03:45 to 04:30	T.Y.B.Sc A-101.	-	-	S.Y.B.Sc A-206.	-	T.Y.B.Sc A-101.
9.	04:30 to 05:15.	-	S.Y.B.Sc A-206.	-	-	-	-

### Time Table (II-Term)

Sr. No.	Time	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
1.	10:55 to 11:40	-	T.Y.B.Sc A-101.	M.Sc-II A-308.	-	M.Sc-II A-308.	-
2.	11:40 to 12:25	T.Y.B.Sc A-101.	-	-	M.Sc-II A-308.	-	-
3.	12:25 to 01:10.	-	M.Sc-II A-308	T.Y.B.Sc A-101	-	S.Y.B.Sc A-310.	M.Sc-II A-308.
4.	01:10 to 01:55	S.Y.B.Sc A-310	-	-	T.Y.B.Sc A-101.	-	-
5.	01:55 to 02:15	Short Recess.					
6.	02:15 to 03:00	-	-	-	-	T.Y.B.Sc A-101.	-
7.	03:00 to 03:45	-	-	S.Y.B.Sc A-206.	-	-	S.Y.B.Sc A-206.
8.	03:45 to 04:30	-	-	T.Y.B.Sc A-101.	S.Y.B.Sc A-206.	M.Sc-II A-308.	T.Y.B.Sc A-101.
9.	04:30 to 05:15.	-	S.Y.B.Sc A-206.	-	-	-	-

### Teaching Plan ( I / III - Term)

Class S.Y.B.Sc Subject Calculus of Several Variables Paper I & III Year 2021-22

Name of the teacher Mr. Gawali U. B.

No. of working days available 113 No. of periods available 36 + 18 = 54.

		Topics according to University Syllabus	
Month	Oct-Nov	Unit-1. Limit and continuity	
Working days	26	* Functions of several variables, graphs and level curves of function of two variables.	
Periods available	13		
Periods required	03		
	10	* Limit and continuity in higher Dimension	
	03	* Examples.	
Month	Dec	Unit-2 Partial derivatives & differentiability	
Working days	26	* Def <sup>n</sup> and examples, second order partial derivatives, partial derivative in higher order	
Periods available	24	* Differentiability.	
Periods required	25	* chain rule.	
		* Homogeneous function, Euler's theorem	
Month	Jan	Unit-3 Extreme values.	
Working days	26	* Extreme values, first derivative test	
Periods available	18	* second derivative test	
Periods required	08	* Lagrange's multipliers method.	
		Unit-4 Multiple Integrals.	
		* Double integrals & Fubini's theorem.	
Month	Feb	* Double integrals in polar form.	
Working days	22	* change the order of integration	
Periods available	08	* Triple integrals.	
Periods required	13	* Triple integrals using spherical co-ordinates	
		* Jacobian	
		* Integration using transformation.	

  
 Teachers Signature  
 Date : 20/10/2021

  
 Head,  
 Department of Mathematics.


## Teaching Plan ( I / ~~II~~ Term)


Class T.Y.B.Sc. Subject Group Theory Paper III ~~f VIII~~ Year 2021-22

Name of the teacher Mr. Grawali V.B.

No. of working days available 87 No. of periods available 36+18=54

		Topics according to University Syllabus
Month	<u>Nov</u>	Unit-1 Groups.
Working days	<u>13</u>	* Binary operations
Periods available	<u>08</u>	* Isomorphic Binary operations.
Periods required	<u>08</u>	* Homomorphism
		* Uniqueness of Identity elements.
		* Groups
Month	<u>Dec</u>	* Elementary property of group.
Working days	<u>26</u>	Unit-2 subgroups
Periods available	<u>24</u>	* subgroup
Periods required	<u>23</u>	* Necessary and sufficient condition
		* cyclic subgroups.
		* Division Algorithm for $\mathbb{Z}$
		* subgroups of finite cyclic groups
Month	<u>Jan</u>	Unit-3 Permutations
Working days	<u>26</u>	* Group of Permutations
Periods available	<u>18</u>	* orbits.
Periods required	<u>19</u>	* cycles & Transposition.
		* Alternating group.
		* cosets and the Theorem of Lagranges
Month	<u>Feb</u>	* Direct Products
Working days	<u>22</u>	Unit-4 Homomorphisms and factor groups
Periods available	<u>07</u>	* Homomorphisms.
Periods required	<u>13</u>	* Factor groups
		* Factor Group Computations and Simple Groups.

  
 Teachers Signature  
 Date : 20/10/2021

  
 Head,  
 Department of Mathematics


## Teaching Plan ( I / II - Term)


Class T.Y.B.Sc Subject Number Theory Paper VI & VII Year 2021-22

Name of the teacher Mr. Gowali V.B.

No. of working days available 87 No. of periods available 36+18=54

		Topics according to University Syllabus
Month	Nov	Unit-1 Divisibility.
Working days	13	* Introduction
Periods available	08	* Divisibility
Periods required	08	* Division Algorithm * GCD & L.C.M. * Primes
Month	Dec	Unit-2 congruences.
Working days	26	* congruences.
Periods available	24	* Euler's th <sup>m</sup> , Fermat's th <sup>m</sup> , Wilson th <sup>m</sup>
Periods required	24	* solution of congruences. * linear congruences. * The Chinese Remainder theorem.
Month	Jan	Unit-3 Greatest Integer function
Working days	26	* Greatest Integer function
Periods available	18	* Arithmetic function
Periods required	18	* The mobius Inversion formula. Unit-4 Quadratic Reciprocity
Month	Feb	* Quadratic Residues. * Quadratic Reciprocity
Working days	22	* The Jacobi symbol.
Periods available	07	Unit-5 Diophantine equations.
Periods required	10	* Diophantine equation $ax+by=c$ . * Pythagorean triples.

  
Teachers Signature  
Date: 20/10/2021

  
Head,  
Department of Mathematics

## Teaching Plan (I/II - Term)


Class S.Y.B.Sc Subject Linear Algebra Paper I & II Year 2021-22

Name of the teacher Mr. Ganwani V.B

No. of working days available \_\_\_\_\_ No. of periods available 36 + 18 = 54

		Topics according to University Syllabus
Month	Apr	Unit-1 Matrices and system of linear eq <sup>n</sup>
Working days	23	1.1. Introduction to system of linear eq <sup>n</sup>
Periods available	20	1.2 Gaussian elimination & Gauss-Jordan method
Periods required	21	Unit-2 Vector space -I
Month	May	2.1 Introduction
Working days	25	2.2 Def <sup>n</sup> and Examples of vector space.
Periods available	15	2.3 Subspace
Periods required	19	2.4 Linear dependence & Independence
Month	May	2.5 Basis of vector space.
Working days	25	Unit-3 Vector spaces-II
Periods available	15	3.1 Dimension of a vector space
Periods required	19	3.2 Row, column and Null space of Matrix
Month	May	3.3. Row and column vector.
Working days	25	3.4 Rank and Nullity.
Periods available	15	Unit-4 Linear Transformation.
Periods required	19	4.1 Def <sup>n</sup> & e.g of linear transformation
Month	June	4.2 Kernel and Range of linear transformation
Working days	10	4.3 Rank-Nullity th <sup>m</sup>
Periods available	-	4.4 composite and Inverse transformation
Periods required	-	4.5 Matrix of linear transformation
		4.6 Basic Matrix Transformation in $\mathbb{R}^2$ & $\mathbb{R}^3$
		4.7 Linear Isomorphism.

  
 Teachers Signature  
 Date 16/02/2022

  
 Head,  
 Department of Mathematics.


## Teaching Plan (X/II - Term)


Class T.Y.B.Sc Subject Ring Theory Paper III Year 2021-22

Name of the teacher Mr. Gawali V.B.

No. of working days available \_\_\_\_\_ No. of periods available 36+18=54

		Topics according to University Syllabus
Month	May	Unit-1 Rings and Fields.
Working days	25	1.1 Ring, Subring, Fields.
Periods available	05	1.2 Divisors of zero, Integral domain, The characteristics of a ring.
Periods required	05	1.3. The field of Quotients of an integral Domain.
Month	Apr	Unit-2 Rings of polynomials & Factorization
Working days	23	2.1 polynomials in an indeterminate.
Periods available	20	2.2 The Evaluation Homomorphism.
Periods required	20	2.3 Factorization of a polynomial over a field $F[x]$ . 2.4 irreducible polynomials, uniqueness of Factorization in $F[x]$ .
Month	May	Unit-3 Ideals and Factor Rings.
Working days	25	3.1 Homomorphism, properties of Homomorphism
Periods available	15	3.2 Ideals, Factor ring, Fundamental Homo. th <sup>m</sup>
Periods required	23	3.3 Maximal ideal, Prime ideal, Ideal structure in $F[x]$ .
Month	June	Unit-4 Factorization.
Working days	10	4.1 unique Factorization domain, principal ideal domain, Gauss lemma, $D[x]$ is a UFD.
Periods available	08	4.2 Euclidean Norm, Euclidean domain.
Periods required	15	4.3 Gaussian Integers, Multiplicative Norm.


  
Teachers Signature  
Date 26/03/2022


  
Head,  
Department of Mathematics,

## Teaching Plan (#/ II - Term)

Class M.Sc- II Subject Number theory Paper IV Year 2021-22  
 Name of the teacher Mr. Gawali V.B. (MTUTO144)  
 No. of working days available \_\_\_\_\_ No. of periods available 30.Hours

		Topics according to University Syllabus
Month	<u>Mar</u>	<u>Unit-II congruence.</u>
Working days	<u>25</u>	<u>2.1 The congruence in <math>\mathbb{Z}</math>, The congruence <math>ax \equiv b \pmod{m}</math></u>
Periods available	<u>26</u>	<u>2.2 Euler's th<sup>m</sup>, Fermat's th<sup>m</sup>, Wilson th<sup>m</sup></u>
Periods required	<u>16</u>	<u>2.3. Solutions of congruences Linear congruences</u>
Month	<u>Apr</u>	<u>2.4 The Chinese remainder th<sup>m</sup></u>
Working days	<u>23</u>	<u>Unit-III Quadratic Reciprocity</u>
Periods available	<u>18</u>	<u>3.1 Quadratic Residues</u>
Periods required	<u>19</u>	<u>3.2 Legendre's symbol 3.3 Gauss lemma</u>
Month	<u>May</u>	<u>3.4 Quadratic Reciprocity, Jacobi's symbol.</u>
Working days	<u>25</u>	<u>Unit-IV Some Functions of Number Theory</u>
Periods available	<u>10</u>	<u>4.1 The Greatest integer function</u>
Periods required	<u>08</u>	<u>4.2 Arithmetic Functions, 4.3 The Mobius Inversion Formula.</u>
Month	<u>June</u>	
Working days		
Periods available		
Periods required		

  
 Teachers Signature  
 Date 26/02/2022

  
 Head,  
 Department of Mathematics.



## Teaching Plan (I/ II - Term)

Class \_\_\_\_\_ Subject \_\_\_\_\_ Paper \_\_\_\_\_ Year 2021-22

Name of the teacher M. G. Gawali U.B.

No. of working days available \_\_\_\_\_ No. of periods available \_\_\_\_\_

		Topics according to University Syllabus
Month	<u>May</u>	
Working days		
Periods available		
Periods required		
Month	<u>Apr</u>	
Working days		
Periods available		
Periods required		
Month	<u>May</u>	
Working days		
Periods available		
Periods required		
Month	<u>June</u>	
Working days		
Periods available		
Periods required		

Teachers Signature

Date: 1/2/2022

Head,  
Department of Mathematics,

## DAILY RECORD

Date: 25/10/2021

DAY: Monday

Time	Class	Topic	Points covered	Remarks
01.10 pm to 01.55 pm	S.Y.B.Sc	Unit-1 limit & continuity	Unit-1 limit and continuity * Functions of two variables. * Functions of three variables * Domain of Function * Range of function <u>foreg</u> ① $f(x, y) = \sqrt{y-x}$ is a functions of two variables ② $f(x, y) = \frac{\sqrt{x-y^2}}{x-y}$ is a function of two variables ③ $f(x, y, z) = \sqrt{1-x^2-y^2-z^2}$ is a function of three variables.	NO.

Book referred

(S.Y.B.Sc) Nirali publication.

Other activities

SRT  
Principal  
S.S.G.M.College  
Kopergaon

~~Signature~~  
Signature of the Lecturer

# DAILY RECORD

Date: 26/10/2021


DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
02.00 pm to 02.50 pm.	<del>M.Sc</del> M.Sc I	Introdution	Introduction of paper: MTUT - III. Linear Algebra f syllabus writting.	NO.

Book referred

Charles A. Curtis

Other activites

  
Signature of the Lecturer

# DAILY RECORD

Date: 27/10/2021

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
03.00pm to 03.45pm.	S.Y.B.Sc	Examples	<p>① Find the domain &amp; Range of the following functions.</p> <p>① <math>f(x, y) = \sqrt{y-x}</math></p> <p>② <math>f(x, y) = \sqrt{1-x^2-y^2}</math></p> <p>③ <math>f(x, y) = \frac{x+y}{x-y}</math></p> <p>④ <math>f(x, y) = \frac{1}{\sqrt{16-x^2-y^2}}</math></p> <p>⑤ <math>f(x, y, z) = e^x \log(y+z)</math></p> <p>⑥ <math>f(x, y, z) = \sqrt{1-x^2-y^2-z^2}</math></p>	NO.

Book referred

(S.Y.B.Sc) Nirali publication.

Other activities



Signature of the Lecturer

# DAILY RECORD

Date: 28/10/2021

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
02:00 pm to 02:50 pm	M.Sc-I	Unit-1 Vector spaces.	Unit - 1 Vector spaces. Def <sup>n</sup> of vector space $\mathbb{R}^n$ * Theorem. Let $V$ be a vector space over a field $F$ . Then the following statement holds. ① If $u+w = u+v$ then $w = v$ for all, $u, v, w \in V$ ② $-(-u) = u$ for all $u \in V$ ③ $0 \cdot u = 0$ , for all $u \in V$ ④ $-(\alpha u) = (-\alpha) u$ for all $u \in V$ ⑤ If $\alpha u = \alpha v$ with $\alpha \neq 0$ in $F$ then $u = v$ for all $u, v \in V$ .	No.

Book referred

Charles W. Curtis

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 29 / 10 / 2024


DAY: Friday

Time	Class	Topic	Points covered	Remarks
12.25 pm to 01.10 pm.	S.Y.B.Sc	Graph and level curves.	<u>Graph of function.</u> The set of all points $\{x, y, f(x, y)\}$ in a space, for $(x, y)$ in domain of $f$ is called the graph of the function $f$ . <u>Level curve</u> The set of all points in the plane where a function, $f(x, y)$ has a constant value $c$ is called a level curve of $f$ . Examples Find the Level curve of the following functions ① $f(x, y) = \frac{x+y}{x-y}$ ② $f(x, y) = 100 - x^2 - y^2$	HO.

Book referred

(S.Y.B.Sc) Nivali publication.

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 15 / 11 / 2021

DAY: Monday

Time	Class	Topic	Points covered	Remarks
01-10 pm to 01-51 pm.	S.Y.B.Sc	Examples	Find the domain, Range, and level curves for the following functions. ① $f(x,y) = -(x-1)^2 - y^2 + 1$ . ② $f(x,y) = y - x$ . ③ $f(x,y) = \sqrt{9 - x^2 - y^2}$ ④ $f(x,y) = \frac{1}{\sqrt{16 - x^2 - y^2}}$ ⑤ $f(x,y) = 4x^2 + 9y^2$ ⑥ $f(x,y) = x^2 - y^2$ ⑦ $f(x,y) = \frac{y}{x^2}$	NO.

Book referred

(S.Y.B.Sc) Nirali publication

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 16 / 11 / 2021

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
12.40 pm to 01.30 pm	M.Sc-I	Examples	<p>① show that the set of Real number is a vector space</p> <p>② show that the set <math>\mathbb{R}^2</math> is a real vector space</p> <p>③ Is set of Natural numbers is a vector space? Justify.</p> <p>④ show that the set of all complex numbers is a real vector space.</p> <p>⑤ Is set of all whole numbers is a vector space? Justify.</p>	No.

Book referred

Charles H. Curtis

Other activities



Signature of the Lecturer



# DAILY RECORD

Date: 17/11/2021

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
02.15 PM to 03.00 PM	M.Sc-I	Example	<p>① Def<sup>n</sup> Let A &amp; B be vectors in <math>\mathbb{R}_2</math> The directed line segment <math>\vec{AB}</math> is defined to be the vector <math>B-A</math> in <math>\mathbb{R}_2</math> e.g ① Let <math>\mathbb{R}_3</math> be a vector space <math>a = \langle -1, 2, 1 \rangle</math>, <math>b = \langle 2, 1, -3 \rangle</math> &amp; <math>c = \langle 0, 1, 0 \rangle</math>. Find ① <math>a+b+c</math> ② <math>2a-b+c</math> ③ <math>-a+2b</math> ④ <math>\lambda a + \mu b + \nu c</math>.</p>	NO.
03.00 PM to 03.45 PM	S.Y.B.Sc	surface	<p>Find the surface of the following function</p> <p>① <math>f(x,y) = 100 - x^2 - y^2</math> ② <math>f(x,y) = 4x^2 + 9y^2</math> ③ <math>f(x,y) = \sqrt{9 - x^2 - y^2}</math> ④ <math>f(x,y) = -(x-1)^2 - y^2 + 1</math></p>	NO

Book referred

(S.Y.B.Sc) Nirali publication, Charles W. Curtis.

Other activities



Signature of the Lecturer

# DAILY RECORD

Date: 18/11/2021


DAY: Thursday.

Time	Class	Topic	Points covered	Remarks
11.40 am to 12.25 pm.	S.Y.B.Sc	Examples	<p>① Find the level curve of the function <math>f(x,y) = x^2 + y^2</math> for <math>c = 1, 4, 9</math>.</p> <p>② Find the graph of the function <math>f(x,y) = x^2 + y^2</math></p> <p>③ Find the level curve of surface for the function <math>f(x,y) = x^2 + y^2 - 4x - 6y + 13</math></p> <p>④ Find the surface for the function <math>f(x,y) = x^2 + 4y^2</math></p>	NO.

Book referred

(S.Y.B.Sc) Nirali publication

Other activities

  
Signature of the Lecturer

**DAILY RECORD**

Date: 20/11/2021

DAY: Saturday.

Time	Class	Topic	Points covered	Remarks
03.00 pm to 03.45 pm	S.Y.B.Sc	Limits	Limit of functions of two variables. Ex: By using $\epsilon$ - $\delta$ def <sup>n</sup> prove that ① $\lim_{(m,y) \rightarrow (a,b)} x = a$ ② $\lim_{(m,y) \rightarrow (a,b)} y = b$ ③ $\lim_{(m,y) \rightarrow (a,b)} k = k$ ④ $\lim_{(m,y) \rightarrow (0,0)} \frac{3x^2 - y^2 + 5}{x^2 + y^2 + 2} = \frac{5}{2}$ * Properties of limits Ex ① show that $\lim_{(m,y) \rightarrow (0,0)} \frac{x+y}{2+10xy} = 0$ ② find $\lim_{(m,y) \rightarrow (2,0)} \frac{\sqrt{2x-y} - 2}{2x-y-4}$	NO

Book referred

(S.Y.B.Sc) Nivali publication.

Other activities

SRT  
Principal  
S.S.G.M. College  
Kopergaon

~~SRT~~  
Signature of the Lecturer

# DAILY RECORD

Date: 22/10/2021

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:50 AM to 11:40 AM f 11:40 AM to 12:25	T.Y.B.Sc	Unit-1 Divisibility	Unit-1 Divisibility. Divisibility Theorem If $a b$ then $a bc$ for any integer $c$ ① If $a b$ & $b c$ then $a c$ . ② If $a b$ & $a c$ then $a bx+cy$ for all $x, y \in \mathbb{Z}$ ③ If $a b, b \neq 0$ then $ a  \leq  b $ . ④ If $a b$ & $b a$ then $a = \pm b$ . Well ordering principle.	NO
01:10 PM to 01:55 PM	S.Y.B.Sc	Examples	show that by $\epsilon$ - $\delta$ def <sup>n</sup> of limits. ① $f(x, y) = x^2 + y^2$ at $(0, 0)$ ② $\lim_{(x, y) \rightarrow (0, 0)} \left( \frac{x+y}{x^2+1} \right) = 0$ ③ $\lim_{(x, y) \rightarrow (2, 3)} (2x+3y) = 13$ ④ $\lim_{(x, y) \rightarrow (0, 0)} \left( \frac{x+y}{x-y} \right) = 0$	NO

Book referred

An introduction to theory of Numbers  
(S.Y.B.Sc) Nirali publication.

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 23/11/2021

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:55 am to 11:40 am & 11:40 am to 12:25 pm	T.Y.B.Sc	Division Algorithm	<p>x Division Algorithm</p> <p>Given any integers <math>a</math> &amp; <math>b</math> with <math>a \neq 0</math> or <math>a &gt; 0</math> there exist unique integers <math>q</math> &amp; <math>r</math> such that <math>b = aq + r</math>, <math>0 \leq r &lt;  a </math>.</p> <p>Example</p> <p>① show that the square of any integer is of the form <math>4k</math> or <math>4k+1</math>.</p> <p>② show that the square of any integer is of the form <math>3k</math> or <math>3k+1</math>.</p> <p>③ If <math>n</math> is an odd integer, then show that <math>n^4 + 4n^2 + 11</math> is of the form <math>16k</math>.</p> <p>④ for <math>n \geq 1</math> prove that the integer <math>n(7n^2 + 5)</math> is of the form <math>6k</math>.</p>	NO.

Book referred

An introduction to theory of Numbers

Other activities

(S.Y.B.Sc) Nirali publication.



Signature of the Lecturer

# DAILY RECORD

Date: 24/11/2021

DAY: Wednesday


Time	Class	Topic	Points covered	Remarks
10.55 am to 11.40 pm & 11.40 pm to 12.25 pm	T.Y.B.Sc	GCD	Greatest common divisor. Find the gcd of the following integers ① $a = 20$ & $b = 50$ . ② $a = 10$ & $b = 21$ Relatively prime integer $Tb^m$ . Given any two non-zero integers $a$ & $b$ there exist integers $x_0$ & $y_0$ such that $(a, b) = ax_0 + by_0$ . Find the limit by using polar co-ordinates at $(0, 0)$	NO.
03.00 pm to 03.45 pm	S.Y.B.Sc	Examples	① $f(x, y) = \frac{x^3 - xy^2}{x^2 + y^2}$ ② $f(x, y) = \cos\left(\frac{x - y^3}{x^2 + y^2}\right)$ ③ $f(x, y) = \frac{y^2}{x^2 + y^2}$ ④ $f(x, y) = \frac{x^2 - y^2}{x + y}$	NO.

Book referred

An introduction to theory of numbers.

Other activities

(S.Y.B.Sc) Nirali publication.

  
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# DAILY RECORD

Date: 25/11/2021

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25 pm + 12:25 pm to 01:10 pm	T.Y.B.Sc	Example	① for any +ve $m \in \mathbb{Z}$ show that $(ma, mb) = m(a, b)$ . ② If $d a$ & $d b$ , $d > 0$ , then $(\frac{a}{d}, \frac{b}{d}) = \frac{(a, b)}{d}$ . ③ If $(a, m) = (b, m) = 1$ , then $(ab, m) = 1$ . ④ If $a c$ & $b c$ with $(a, b) = 1$ , then $ab c$ . ⑤ for any integer $x$ then $(a, b) = (a, b + ax)$ .	NO.
03:45 pm to 04:30 pm	S.Y.B.Sc	continuous function	continuous function for two variables Discuss the continuity of the following function at $(0, 0)$ ① $f(x, y) = \frac{x^3 - xy^2}{x^2 + y^2}$ , $f(0, 0) = 0$ . ② $f(x, y) = \frac{x^2 - y^2}{x^2 + y^2}$ $f(0, 0) = 0$ .	NO.

Book referred

An introduction to theory of Numbers

Other activities

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# DAILY RECORD

Date: 26/11/2021

DAY: Friday

Time	Class	Topic	Points covered	Remarks
10.55 am to 11.40 am + 11.40 am to 12.25 pm	T.Y. B.Sc	Euclid's lemma	Euclid's lemma. If $a, b, c$ are integers such that $a bc$ & $(a, b) = 1$ then $a c$ Examples ① show that if $a c$ & $b c$ then $a c$ . ② Given $a b$ & $c d$ then $a cd$ . ③ prove that if $x$ & $y$ are odd then $x^2 + y^2$ is even but not divisible by 4 ④ prove that $(a, a+10)   k$ . $\forall$ integers $a, k$ not both zero	NO.
12.25 pm to 01.10 pm	S.Y. B.Sc	Example	① At what points the functions are continuous. ① $f(x, y) = \sin(\frac{1}{xy})$ ② $f(x, y, z) = \frac{1}{ xy  +  yz }$ ③ $f(x, y) = \log(x^2 + y^2)$ ④ $f(x, y) = \frac{x+y}{x-y}$	NO.

Book referred

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Other activities

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# DAILY RECORD

Date: 27/11/2021


DAY: Saturday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25 pm + 12:25 pm to 01:10 pm	T.Y. B.Sc	The Euclidean Algorithm	<p>The Euclidean Algorithm Examples</p> <p>① Find the gcd of 704 &amp; 407. Also find <math>x</math> &amp; <math>y</math> such that <math>(704, 407) = 704x + 407y</math></p> <p>② Let <math>a, b, x, y</math> be non-zero integers &amp; <math>xa + yb = 1</math>. then <math>(a, b) = (x, y) = (x, y) = (a, y) = 1</math></p> <p>③ prove that <math>a bc</math> iff <math>\frac{a}{(a,b)} c</math>.</p> <p>④ Prove that <math>(a, b, c) = ((a, b), c) = (a, (b, c)) = ((a, c), b)</math>.</p>	NO.
03:00 pm to 03:45 pm	S.Y. B.Sc	Example	<p>define <math>f(0,0)</math> so the function <math>f(x,y)</math> be continuous at the origin</p> <p>① <math>f(x,y) = \log\left(\frac{3x^2 - x^2y + 3y^2}{x^2 + y^2}\right)</math>.</p> <p>② <math>f(x,y) = \frac{3x^2y}{x^2 + y^2}</math></p>	NO.

Book referred

An introduction to theory of numbers  
(S.Y. B.Sc) Nirali publication.

Other activities

  
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# DAILY RECORD

Date: 29 / 12 / 2021

DAY: Monday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25 pm + 12:25 pm to 01:10 pm.	T.Y.B.Sc	Examples	<p>By using Euclidean Algorithm find the gcd of the following integers <math>a</math> &amp; <math>b</math>. Also find <math>x</math> &amp; <math>y</math> such that <math>(a, b) = ax + by</math></p> <p>① <math>a = 7469, b = 2464</math></p> <p>② <math>a = 2689, b = 4001</math></p> <p>③ <math>a = 7645, b = 2872</math></p> <p>④ <math>a = 423, b = 198</math>.</p> <p>* Find the integer <math>x, y</math> &amp; <math>z</math> such that  <math>198x + 288y + 512z = (198, 288, 512)</math>.</p>	No.
03:00 pm to 03:45 pm	S.Y.B.Sc	partial derivative	<p>Unit-2 partial derivatives &amp; Differentiability</p> <p>* first order partial derivatives                      Find <math>f_x</math> &amp; <math>f_y</math> for the following</p> <p>① <math>f(x, y) = 5xy - 7x^2 - y^2 + 3x</math> at <math>(2, -3)</math></p> <p>② <math>f(x, y) = 4 + 2x - 3y</math> at <math>(-2, 1)</math>.</p>	No.

Book referred

An introduction to theory of numbers  
 (S.Y.B.Sc) Nirali Publication.

Other activities

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# DAILY RECORD

Date: 30/11/2021

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10.55 am to 11.40 am & 11.40 am to 12.25 pm.	T.Y.Bsc	Examples Primes. L.C.M.	<p>* least common multiple</p> <p>* Th<sup>m</sup>. If <math>a</math> &amp; <math>b</math> are two non-zero integers. then prove that <math>[a, b](a, b) =  a \cdot b </math>.</p> <p>* Prime</p> <p>Fundamental Th<sup>m</sup> of Arithmetic Th<sup>m</sup>.</p> <p>If <math>p</math> is a prime &amp; <math>p ab</math>. then <math>p a</math> or <math>p b</math>.</p> <p>* Mersenne Number.</p> <p>* Fermat Number.</p> <p>Example</p> <p>① Find +ve integer <math>a</math> &amp; <math>b</math> such that <math>(a, b) = 10</math> &amp; <math>[a, b] = 100</math></p> <p>② If <math>(a, 4) = 2</math>, <math>(b, 4) = 2</math> then <math>(a+b, 4) = 4</math> <sup>5</sup></p> <p>③ show that <math>F_5 = 2^2 + 1</math> is a composite number.</p>	No.

Book referred

An introduction to theory of numbers

Other activities

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# DAILY RECORD

Date: 01 / 12 / 2021

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
10.55 am to 11.40 am + 11.40 am to 12.25 pm + 12.25 pm to 01.10 pm	T.Y.B.Sc	Unit-2 Congruences	Unit-2 Congruences. Def <sup>n</sup> of congruence *Th <sup>m</sup> Let $a, b, c, d, x, y \in \mathbb{Z}$ Then ① If $a \equiv b \pmod{m}$ & $b \equiv c \pmod{m}$ then $a \equiv c \pmod{m}$ . ② If $a \equiv b \pmod{m}$ & $c \equiv d \pmod{m}$ then $ax + cy \equiv bx + dy \pmod{m}$ ③ If $a \equiv b \pmod{m}$ , $c \equiv d \pmod{m}$ then $ac \equiv bd \pmod{m}$ . ④ If $a \equiv b \pmod{m}$ & $d   m$ , $d > 0$ . then $a \equiv b \pmod{d}$ .	NO.
03.00 pm to 03.45 pm	S.Y.B.Sc	Examples	① Find $f_x, f_y$ & $f_z$ for the function ① $f(x, y, z) = x - \sqrt{y^2 + z^2}$ ② $f(x, y, z) = \sin^{-1}(xyz)$ * Find $\frac{\partial f}{\partial z}$ at (1, 2, 3) for the function $f(x, y, z) = x^2 y z^2$ .	NO.

Book referred

An introduction to theory of Numbers.

Other activities

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# DAILY RECORD

Date: 02/12/2021

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25 pm + 12:25 pm to 01:10 pm	T.Y.B.Sc	Examples	① If $a \equiv b \pmod{m}$ then $(a, m) = (b, m)$ . ② If $a \equiv b \pmod{m}$ & $x > 0$ then $ax \equiv bx \pmod{mx}$ . ③ show that, 41 divides $2^{20} - 1$ . ④ Find the remainder when $2^{50}$ & $41^{65}$ are divided by 7 ⑤ Find the remainder when $13^3 + 14^3$ is divided by 11. ⑥ what is remainder when $3^7 + 82$ is divided by 7.	NO
03:45 pm to 04:30 pm	S.Y.B.Sc	Examples	Find $\frac{\partial f}{\partial x} + \frac{\partial f}{\partial y}$ for the functions ① $f(x, y) = x^2 + 3xy + y - 1$ ② $f(x, y) = y \sin(xy)$ ③ $f(x, y) = 2x^2 - 3x - 4$ ④ $f(x, y) = e^{x+y+1}$ ⑤ $f(x, y) = x^y$	NO

Book referred

An introduction to theory of Numbers.

Other activities

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# DAILY RECORD

Date: 03 / 12 / 2021

DAY: Friday

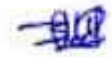
Time	Class	Topic	Points covered	Remarks
10.55 AM to 11.40 AM & 11.40 AM to 12.25 PM	S.Y.B.Sc	Second order partial derivative	Second order partial derivatives (i) Find all second order partial derivatives for the function i. $f(x,y) = \tan^{-1}\left(\frac{y}{x}\right)$ ii. $f(x,y) = x^2y + x^2y^3 + x^3y^4$ iii. $f(x,y) = \sin^{-1}\left(\frac{x}{y}\right)$ iv. $f(x,y) = \sqrt{x^2+y^2}$ v. $f(x,y) = \log(x+y)$ vi. $f(x,y) = xe^y + y + 1$	NO.
12.25 PM to 01.10 PM	T.Y.B.Sc	Euler's th <sup>m</sup>	* Euler's th <sup>m</sup> . $\phi(m)$ If $(a,m) = 1$ then $a^{\phi(m)} \equiv 1 \pmod{m}$ Fermat's th <sup>m</sup> . Let p denotes a prime s.t $p \nmid a$ then $a^{p-1} \equiv 1 \pmod{p}$ Th <sup>m</sup> - Let p be a prime number then $x^2 \equiv 1 \pmod{p}$ iff $x \equiv \pm 1 \pmod{p}$ .	NO.

Book referred

An introduction to theory of Numbers

Other activities

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# DAILY RECORD

Date: 04/12/2021

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25 pm + 12:25 pm to 01:10 pm.	T.Y.B.Sc	Wilson Theorem.	Wilson theorem. If $p$ is prime then $(p-1)! \equiv (-1) \pmod{p}$ . Th <sup>m</sup> - Let $p$ denote a prime Then $x^2 \equiv (-1) \pmod{p}$ has sol <sup>n</sup> iff $p=2$ or $p \equiv 1 \pmod{4}$ Ex. ① List all integers $x$ in the range $1 \leq x \leq 100$ such that $x \equiv 7 \pmod{17}$ . ② prove that if $p$ is prime & $a^2 \equiv b^2 \pmod{p}$ then $p (a+b)$ or $p (a-b)$ .	ND
03:00 pm to 03:45 pm	S.Y.B.Sc	Examples	show that $f_{ny} = f_{yx}$ for the following function ① $f(x,y) = \log(x^2 + y^2)$ ② $f(x,y) = \log(\tan(\frac{y}{x}))$ ③ $f(x,y) = \log(2x + 3y)$	ND.

Book referred

An introduction to theory of Numbers  
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# DAILY RECORD

Date: 06/12/2021


DAY: Monday.

Time	Class	Topic	Points covered	Remarks
10:55 pm to 11:40 pm + 11:40 pm to 12:25 pm	T.Y.B.Sc	Examples	① Prove that $n^6 - 1$ is divisible by 7 if $(n, 7) = 1$ . ② Prove that 19 is not divisor of $4n^2 + 4$ for $n \in \mathbb{Z}$ ③ Apply Wilson's $t_n^m$ to show that $18! + 1 \equiv 0 \pmod{23}$ . ④ Apply Wilson's $t_n^m$ to show that $6! + 1 \equiv 63! + 1 \equiv 0 \pmod{71}$ ⑤ Show that $7 \mid (3^{2n+1} + 2^{n+2}) \forall n$ . ⑥ If $p$ is odd prime then prove that $1^2 \cdot 3^2 \cdot 5^2 \cdots (p-2)^2 \equiv (-1)^{\frac{p+1}{2}} \pmod{p}$ .	NO.
01:10 pm to 01:55 pm	S.Y.B.Sc	Examples	① Show that the following functions satisfy Laplace eq <sup>n</sup> ① $f(x, y) = e^{-2y} \cos(2x)$ ② $f(x, y, z) = x^2 + y^2 - 2z^2$ ③ $f(x, y, z) = e^{3x+4y} \cos(5z)$ ④ $f(x, y) = \log(\sqrt{x^2 + y^2})$ .	NO

Book referred

An introduction to theory of Numbers.  
(S.Y.B.Sc) Nirali publications.

Other activities

  
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# DAILY RECORD

Date: 07/12/2021

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25 pm & 12:25 pm to 01:10 pm.	T.Y. Base	Sol <sup>n</sup> of congruence	<p>Sol<sup>n</sup> of congruences.</p> <p>Ex</p> <p>① Find all solutions of the following congruences</p> <p>① <math>x^2 + 1 \equiv 0 \pmod{5}</math></p> <p>② <math>x^2 - 1 \equiv 0 \pmod{8}</math></p> <p>③ <math>x^2 - 7x + 2 \equiv 0 \pmod{10}</math></p> <p>④ <math>x^2 + x + 7 \equiv 0 \pmod{5}</math></p> <p>* Degree of congruences</p> <p>* Identical congruences</p> <p><u>Th<sup>n</sup></u>: Let <math>d m</math>, <math>d &gt; 0</math>. If <math>u</math> is a solution of <math>f(x) \equiv 0 \pmod{m}</math> then <math>u</math> is sol<sup>n</sup> of <math>f(x) \equiv 0 \pmod{d}</math>.</p> <p>Ex</p> <p>Find the degree of congruences</p> <p>① <math>6x^3 + 3x^2 + 3 \equiv 0 \pmod{5}</math></p> <p>② <math>6x^3 + 3x^2 + 3 \equiv 0 \pmod{2}</math></p> <p>③ <math>6x^3 + 3x^2 + 3 \equiv 0 \pmod{3}</math>.</p>	NO

Book referred

An introduction to theory of numbers.

Other activities



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# DAILY RECORD

Date: 08/12/2014

DAY: ~~Thursday~~ Wednesday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25 pm + 12:25 pm to 01:10 pm	T.Y.B.Sc	Examples	① Find all sol <sup>n</sup> of $18x \equiv 30 \pmod{42}$ ② Find all sol <sup>n</sup> of $9x \equiv 21 \pmod{30}$ . ③ Find all sol <sup>n</sup> of the following if it exist i. $20x \equiv 4 \pmod{90}$ ii. $64x \equiv 83 \pmod{105}$ iii. $20x \equiv 30 \pmod{4}$ iv. $15x \equiv 25 \pmod{35}$ v. $15x \equiv 24 \pmod{35}$ vi. $15x \equiv 0 \pmod{35}$	NO.
03:00 pm to 03:45 pm	S.Y.B.Sc	Mixed derivative th <sup>m</sup>	Mixed derivative th <sup>m</sup> ① If $f(x,y) = \frac{xy^3}{x^2+y^2}$ , $f(0,0) = 0$ find $f_{xy}(0,0)$ & $f_{yx}(0,0)$ ② If $f(x,y) = \frac{xy(x^2-y^2)}{x^2+y^2}$ , $f(0,0) = 0$ show that $f_{xy}(0,0) \neq f_{yx}(0,0)$ .	NO.

**Book referred**  
An introduction to theory of Numbers.  
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**Other activities**

  
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# DAILY RECORD

Date: 09/12/2024

DAY: Thursday


Time	Class	Topic	Points covered	Remarks
11.40 am to 12.25 pm + 12.25 pm to 01.10 pm	T.Y. BSc	The Chinese remainder thm	<p>The Chinese remainder thm.</p> <p>Let <math>m_1, m_2, \dots, m_r</math> be +ve integers such that <math>(m_i, m_j) = 1 \forall i \neq j</math>.</p> <p>Then the system of linear congruences.</p> $x \equiv a_1 \pmod{m_1}, x \equiv a_2 \pmod{m_2}, \dots$ $x \equiv a_r \pmod{m_r}$ <p>have common sol<sup>n</sup>.</p> <p>Example</p> <p>① Find least +ve integer <math>x</math> such that <math>x \equiv 5 \pmod{7}</math>, <math>x \equiv 7 \pmod{11}</math> &amp; <math>x \equiv 3 \pmod{13}</math>.</p> <p>② Find all sol<sup>n</sup> of <math>x \equiv 3 \pmod{17}</math>, <math>x \equiv 4 \pmod{19}</math> &amp; <math>x \equiv 7 \pmod{23}</math>.</p>	NO.
03.45 pm to 04.30 pm	S.Y. BSc	Higher order partial derivative	<p>Higher order partial derivative</p> <p>If <math>f(x, y) = \sin(xy)</math> then find <math>f_{xy}</math>.</p> <p>② If <math>f(x, y, z) = 1 - 2xy^2 + xz^2</math> then find <math>f_{xyz}</math>.</p>	NO.

Book referred

An introduction to theory of Numbers  
(S.Y. BSc) Nirali publication.

Other activities

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# DAILY RECORD

Date: 10 / 12 / 2021

DAY: Friday

Time	Class	Topic	Points covered	Remarks
12.25 pm to 01.10 pm.	S.Y.B.Sc	Examples	① verify that $W_{xy} = W_{yx}$ for $W = e^x + x \ln y + y \ln x$ ② verify that $\frac{\partial^2 u}{\partial x \partial y} = \frac{\partial^2 u}{\partial y \partial x}$ for i. $u = x^3 y + e^{xy^2}$ ii. $u = \tan^{-1}(\frac{y}{x})$ ③ If $u = (x^2 + y^2 + z^2)^{-1/2}$ then $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} + \frac{\partial^2 u}{\partial z^2} = 0$ . ④ If $W = \sin(\pi + ct)$ then $W_{tt} = c^2 W_{xx}$ .	NO.
02.15 pm to 03.40 pm f 03.00 pm to 03.45 pm	T.Y.B.Sc	Examples	Find the least +ve integers $x$ ① $x \equiv 1 \pmod{3}, x \equiv 2 \pmod{5}$ $x \equiv 3 \pmod{7}$ ② $x \equiv 5 \pmod{6}, x \equiv 4 \pmod{11}$ $x \equiv 3 \pmod{7}$ ③ $x \equiv 5 \pmod{11}, x \equiv 14 \pmod{24}$ f $x \equiv 15 \pmod{31}$ .	NO.

Book referred

An introduction to theory of Numbers.

Other activities (S.Y.B.Sc) Nirali publication.

  
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# DAILY RECORD

Date: 11 / 12 / 2021

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
12.25 pm to 01.10 pm	J.Y.Bsc	Examples	① Find the smallest +ve integer giving remainders 1, 2, 3, 4, 5 when divided by 3, 5, 7, 11. ② show that there is no $x$ for which both $x \equiv 29 \pmod{52}$ & $x \equiv 19 \pmod{72}$ has soln? ③ Determine whether the system $x \equiv 3 \pmod{10}$ , $x \equiv 8 \pmod{15}$ , $x \equiv 5 \pmod{84}$ has soln? & Find them all. if any exist.	NO.
03.00 pm to 03.45 pm & 11.40 to 12.25	S.Y.Bsc	Examples	① If $f(x, y, z) = \log(x^2 + y^2 + z^2)$ find $\frac{\partial^2 f}{\partial x^2}$ ② If $u = (x^2 + y^2 + z^2)^{\frac{1}{2}}$ then $u_{xx} + u_{yy} + u_{zz} = \frac{1}{u}$ ③ If $z = f(x+iy) + g(x-iy)$ then $z_{xy} = 0$	NO.

Book referred

An introduction to theory of Numbers -  
(S.Y.Bsc) Nitaji Publication.

Other activities



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# DAILY RECORD

Date: 13 / 12 / 2024

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10.55 am to 11.40 am + 11.40 am to 12.25 pm	T.Y.B.Sc	Binary operation	Chp-1 GROUP * Binary operation * closed under binary operation * commutative binary operation * Associative binary operation * Examples ① Let $H = \{n^2   n \in \mathbb{Z}^+\}$ Determine whether H is closed under ① Addition ② Multiplication	NO.
03.00 pm to 03.45 pm.	S.Y.B.Sc	Differentiability	* Differentiability * Necessary condition for Differentiability Th <sup>m</sup> . If $f(x, y)$ is diff. at $(a, b)$ then ① $f_x(a, b) \neq f_y(a, b)$ both exist & ② $f(x, y)$ is continuous at $(a, b)$	NO.

Book referred

John B. Fraleigh, (S.Y.B.Sc) Nirali publication.

Other activities

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# DAILY RECORD

Date: 14/12/2021


DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
12.45 AM to 12.25 PM. + 12.25 PM to 01.10 PM.	T.Y.B.Sc	Groups	<p>Examples</p> <p>⊕ Determine whether the <math>\times</math> is commutative &amp; Associative</p> <p>① <math>\times</math> is defined by <math>a \times b = a - b</math> on <math>\mathbb{R}</math></p> <p>② <math>\times</math> defined on <math>\mathbb{Q}</math> by <math>a \times b = \frac{ab}{2}</math></p> <p>③ <math>\times</math> defined on <math>\mathbb{Q}</math> by <math>a \times b = ab + 1</math></p> <p>④ <math>\times</math> defined on <math>\mathbb{Z}^+</math> by <math>a \times b = a^b</math>.</p> <p><math>\times</math> Isomorphism</p> <p>Ex ① show that <math>\mathbb{R} \cong \mathbb{R}^+</math></p> <p>② show that <math>\mathbb{Z} \cong 2\mathbb{Z}</math>.</p>	NO.
03.00 PM to 03.45 PM.	S.Y.B.Sc	Examples	<p>Test the differentiability for the following functions at <math>(0,0)</math></p> <p>① <math>f(x,y) = \frac{xy}{x^2+y^2}, (x,y) \neq (0,0)</math> <math>f(0,0) = 0</math>.</p> <p>② <math>f(x,y) = \frac{x^4+y^4}{x^2+y^2}, (x,y) \neq (0,0)</math> <math>f(0,0) = 0</math>.</p> <p>③ <math>f(x,y) = \sqrt{ xy }</math></p>	NO.

Book referred

John B. Fraleigh, Niral publication (S.Y.B.Sc).

Other activities

  
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# DAILY RECORD

Date: 15/12/2021

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25 pm + 12:25 pm to 01:10 pm.	T.Y.B.Sc	Example Identity element	* Identity element * Uniqueness of identity element  Examples. Determine whether the map $\phi$ is an isomorphism ① $\phi: \mathbb{Z} \rightarrow \mathbb{Z}$ by $\phi(n) = -n$ for $n \in \mathbb{Z}$ ② $\phi: \mathbb{Q} \rightarrow \mathbb{Q}$ by $\phi(x) = \frac{x}{2}$ for $x \in \mathbb{Q}$ . ③ $\phi: \mathbb{Q} \rightarrow \mathbb{Q}$ by $\phi(x) = \frac{x^2}{2}$ for $x \in \mathbb{Q}$ . ④ $\phi: \mathbb{Z} \rightarrow \mathbb{Z}$ by $\phi(n) = 2n$ for $n \in \mathbb{Z}$ .	NO
03:00 pm to 03:45 pm.	S.Y.B.Sc	sufficient condition for Differenti- ability	sufficient condition for Differentiability Let $f_x$ & $f_y$ both exist in some nhd of $(a, b)$ and are conti. at $(a, b)$ then $f(x, y)$ is differentiable at $(a, b)$ . EX ① Is $f(x, y) = \sqrt{ xy }$ is differentiable at $(0, 0)$ .	NO.

Book referred

John B. Fraleigh, (S.Y.B.Sc) Nivali publication

Other activities



Signature of the Lecturer



# DAILY RECORD

Date: 16 / 12 / 2021

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
12.45 am to 12.25 pm f 12.25 pm to 01.10 pm	T.Y.B.Sc	Group.	* Group. * Abelian group. * order of a group Ex: show that the following are groups. ① $\langle \mathbb{Z}, + \rangle, \langle \mathbb{Q}, + \rangle, \langle \mathbb{R}, + \rangle$ . ② $\langle \mathbb{Q}^+, \cdot \rangle, \langle \mathbb{R}^+, \cdot \rangle$ . ③ $\langle M_{m \times n}(\mathbb{R}), + \rangle$ . ④ $\langle \mathbb{C}, \cdot \rangle, \langle \mathbb{Q}, \cdot \rangle \neq \langle \mathbb{R}, \cdot \rangle$ .	NO
03.00 pm to 03.45 pm f 03.45 pm to 4.30 pm.	S.Y.B.Sc	Differential	* Differential * find the approximate value of the following ① $(2.01)(3.02)^2$ ② $[(3.8)^2 + 2(2.1)^2]^{1/5}$ ③ $5.04 \times 9.98$ ④ $\sqrt{(5.98)^2 + (8.01)^2}$	NO.

Book referred

John B. Fraleigh, (S.Y.B.Sc) Nirali publication

Other activities

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Signature of the Lecturer

# DAILY RECORD

Date: 17 / 12 / 2021

DAY: Friday

Time	Class	Topic	Points covered	Remarks
12.25 pm to 01.10 pm + 01.10 pm to 01.55 pm.	T.Y.B.Sc	Examples semigroup.	① show that $\langle \mathbb{Q}[\sqrt{2}], + \rangle$ is abelian group. ② Elementary prop. of group. If $\langle G, * \rangle$ is a group then ① Identity element in $G$ is unique ② Inverse of each element in $G$ is unique ③ $\forall a, b \in G$ then $(a * b)' = b' * a'$ .	NO.
03.00 pm to 03.45 pm.	S.Y.B.Sc	chain Rule.	*chain Rule-I If $z$ is diff function of $x$ & $y$ for $x = g(t), y = h(t)$ then $\frac{dz}{dt} = \frac{\partial z}{\partial x} \cdot \frac{dx}{dt} + \frac{\partial z}{\partial y} \cdot \frac{dy}{dt}$ *chain Rule-II If $z = f(x, y), x = g(s, t), y = h(s, t)$ then $\frac{\partial z}{\partial s} = \frac{\partial z}{\partial x} \cdot \frac{\partial x}{\partial s} + \frac{\partial z}{\partial y} \cdot \frac{\partial y}{\partial s}$	NO.

Book referred

John B. Fraleigh, (S.Y.B.Sc) Nirali publication.

Other activities

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# DAILY RECORD

Date: 18 / 12 / 2021

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
12.25pm to 01.10pm.	T.Y.B.Sc	Examples Idempotent element	<p>* Idempotent element</p> <p>Ex ①. Prove that a group has exactly one idempotent element.</p> <p>② Determine whether the binary operation * gives a group.</p> <p>i. * is defined on <math>\mathbb{Q}</math> by.</p> $a * b = \frac{ab}{2}$ <p>ii. * is defined on <math>\mathbb{Z}</math> by.</p> $a * b = ab.$ <p>iii. * is defined on <math>\mathbb{R}^+</math> by.</p> $a * b = \sqrt{ab}.$	No.
03.00 Pm to 03.45 Pm.	S.Y.B.Sc	Euler's Th <sup>m</sup> .	<p>* Euler's th<sup>m</sup>.</p> <p>Let <math>f(x,y)</math> be a homo. function of degree <math>n</math> then.</p> $x^2 f_{xx} + 2xy f_{xy} + y^2 f_{yy} = n(n-1)f.$	No.

Book referred

John B. Fraleigh, (S.Y.B.Sc) Nirali publication.

Other activities



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# DAILY RECORD

Date: 20/12/2021

DAY: Monday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25 pm & 12:25 pm to 01:10 pm	T.Y.B.Sc	Examples	① Let $x$ be defined on $G$ by $axb =  ab $ . ② Every element in $G$ has inverse itself then show that $G$ is abelian. ③ Let $G$ be a group & $a \in G$ then $a^n = e$ iff $o(a)   n$ . ④ show that $o(a) = o(a')$ $\forall a \in G$ ⑤ show that $o(a) = o(xax)$ for $a, x \in G = o(xax)$ .	No.
03:00 pm to 03:45 pm	S.Y.B.Sc	Examples	① Find $\frac{\partial z}{\partial s} + \frac{\partial z}{\partial t}$ where $z = x^2 y^3$ , $x = s \cos t$ , $y = s \sin t$ ② Find $\frac{\partial z}{\partial s} + \frac{\partial z}{\partial t}$ where $z = \sin \theta \cos \phi$ , $\theta = st^2$ , $\phi = \frac{2}{5}t$ ③ If $z = f(x+at) + g(x-at)$ show that $\frac{\partial^2 z}{\partial t^2} = a^2 \frac{\partial^2 z}{\partial x^2}$	No.

Book referred

John B. Fraleigh, (S.Y.B.Sc) Nirali publication

Other activities



Signature of the Lecturer

# DAILY RECORD

Date: 21 / 12 / 2021

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
12.25 pm to 01.10 pm	T.Y.B.Sc	Subgroup	Unit-2 Subgroup. * Subgroup. Examples. ① $\mathbb{Z} \leq \mathbb{Q} \leq \mathbb{R} \leq \mathbb{C}$ with the binary operation addition. ② $2\mathbb{Z}$ is a subgroup of $\mathbb{Z}$ w.r.t. addition. ③ $\langle \mathbb{Q}^+, + \rangle$ is not subgroup of $\langle \mathbb{R}, + \rangle$ .	No.
03.00 pm to 03.45 pm.	S.Y.B.Sc	Examples	① Prove that $x^2x + y^2y = n + \frac{1}{2}f$ where $f(n,y) = (x^2 + y^2)(x^2 + y^2)$ ② If $u = \sin^{-1}\left(\frac{x}{y}\right) + \tan^{-1}\left(\frac{x}{y}\right)$ Find $xu_x + yu_y$ ③ If $u = \tan^{-1}\left[\frac{x^3 + y^3}{x - y}\right]$ then show that $xu_x + yu_y = \sin 2u$ .	No.

Book referred

John B. Fraleigh, (S.Y.B.Sc) Nirali publication.

Other activities

  
Signature of the Lecturer

National Mathematics Day  
on occasion of Shrinivasa Ramanujan.

## DAILY RECORD

Date: 22/12/2021

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
10:55 am to 11:40 am f 11:40 am to 12:25 pm	T.Y. B.Sc	Lattice subgroup diagram.	Lattice subgroup diagram * Draw a subgroup diagram of $\mathbb{Z}_4$ * Draw a subgroup diagram of $\mathbb{Z}_6$ . * Draw a subgroup diagram of $\mathbb{Z}_8$ & $\mathbb{Z}_{12}$ . * Draw a subgroup diagram of Klein 4 - group.	NO.
03:00 pm to 03:45 pm.	S.Y. B.Sc	Extreme Point Value	chap-3 Extreme values. * Local minimum value * Local maximum value. * critical point * second derivative test If $f_x(a,b) = 0 = f_y(a,b)$ . then $A = f_{xx}$ , $B = f_{xy}$ , $C = f_{yy}$ $D = AC - B^2$ Then ① $D > 0$ & $A > 0$ then $(a,b)$ is minimum ② $D > 0$ & $A < 0$ . then $(a,b)$ is maximum.	NO.

Book referred

John B. Fraleigh, (S.Y. B.Sc) Nirali publication.

Other activities

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Signature of the Lecturer

24/12/21 - C.L.  
25/12/21 - Christmas.

## DAILY RECORD

Date: 23 / 12 / 2021


DAY: Thursday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25 pm + 12:25 pm to 01:10 pm.	T.Y.B.Sc	N-S. Condition	Necessary and sufficient condition Examples ① show that $H = \{0, 3, 6, 9\}$ is subgroup of $\mathbb{Z}_{12}$ ② show that the set $n\mathbb{Z} = \{na \mid a \in \mathbb{Z}\}, n \in \mathbb{Z}$ is a subgroup of $\langle \mathbb{Z}, + \rangle$ . ③ Is $H = \{i\mathbb{R} \cup \{0\}\}$ is a subgroup of $\langle \mathbb{C}, + \rangle$ . ④ Draw subgroup diagram of $U_4$ .	NO.
03:45 pm to 04:30 pm	S.Y.B.Sc	Examples	① Find the local maximum and minimum values and saddle points of the following function ① $f(x, y) = x^4 + y^4 - 4xy + 1$ ② $f(x, y) = x^2 + y^2 + xy + y$ ③ $f(x, y) = xy - 2x - 2y - x^2 - y^2$ ④ $f(x, y) = (x - y)(1 - xy)$ .	NO.

Book referred

John B. Fraleigh. (S.Y.B.Sc) Nirali publication.

Other activities

  
Signature of the Lecturer

**DAILY RECORD**

Date: 27/12/2014


DAY: Monday

Time	Class	Topic	Points covered	Remarks
02.15 pm to 03.00 pm.	T.Y.Bsc	Examples. Normalizer of center	* Normalizer of element * center of a group. ① Let $G$ be a group & $a$ be fixed element of $G$ then show that $H_a$ & $H_G$ are subgroup of $G$ ② If $H$ & $K$ are two subgroup of $G$ then show that $H \cap K$ is subgroup of $G$ Is $H \cup K$ is subgroup of $G$ ? Justify	NO.
03.00 pm to 03.45 pm.	S.Y.Bsc	Examples.	① Find the local maximum and minimum values and saddle points of the functions $-2x^2 - 2y^2$ ① $f(x, y) = xe$ ② $f(x, y) = y^3 + 3xy^2 - 6x^2 - 6y^2 + 2$ ③ $f(x, y) = e^x \cos y$ ④ $f(x, y) = x^3 - 12xy + 8y^3$	NO.

Book referred

John B. Fraleigh, (S.Y.Bsc) Nirali Publication.

Other activities

  
Signature of the Lecturer



# DAILY RECORD

Date: 28/12/2021


DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
			Examination meeting 12.00 pm to 01.30 pm. of programme National Mathematics day.	
10.55 pm to 11.40 pm.	T.Y.B.Sc	Examples	① Let $G$ be a group and let $a$ be one fixed element of $G$ . show that, $H_a = \{x \in G \mid xa = ax\}$ is a subgroup ② prove that every cyclic group is abelian ③ show that if $a \in G$ , where $G$ is finite group with identity $e$ then $\exists n \in \mathbb{Z}^+$ such that $a^n = e$ .	NO
03.00 pm to 03.45 pm.	S.Y.B.Sc	Examples	① find the critical point of the following functions ① $f(x,y) = x^3 + 2x^2y + y^3$ ② $f(x,y) = x^3 + y^3 - 4xy$ .	NO

Book referred

John B. Fraleigh, (S.Y.B.Sc) Nirali publication

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 29/12/2021

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25 pm & 12:25 pm to 01:10 pm.	T.Y.B.Sc	Examples	<p>① show that if <math>H</math> &amp; <math>K</math> are subgroups of a group <math>G</math> &amp; <math>G</math> is abelian then <math>HK = \{hk \mid h \in H, k \in K\}</math> is a subgroup of <math>G</math></p> <p>② show that <math>H_a = H_a^{-1}</math> for <math>a \in G</math></p> <p><u>Th<sup>m</sup>:</u> Let <math>G</math> be a group &amp; let <math>a \in G</math> Then <math>H = \{a^n \mid n \in \mathbb{Z}\}</math> is a smallest subgroup of <math>G</math> containing <math>a</math>.</p>	NO.
03:00 pm to 03:45 pm.	S.Y.B.Sc	Examples	<p>① Find the extreme values. <math>f(x,y) = x^2 + y \cos x</math></p> <p>② Find the shortest distance from the point <math>(2, 0, -3)</math> to the plane <math>x+y+z=1</math>.</p>	NO.

Book referred

John B. Fraleigh, (S.Y.B.Sc) Nirali Publication

Other activities

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# DAILY RECORD

Date: 30 / 12 / 2021


DAY: Thursday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25 pm f 12:25 pm to 01:10 pm f 01:10 pm to 01:55 pm	T.Y.B.Sc	Example cyclic group.	* cyclic group * generator of a group. ① show that $\mathbb{Z}_4$ is cyclic group ② show that Klein 4-group is not cyclic ③ The group $\mathbb{Z}_n, +$ is cyclic. ④ Find the generator of $V_4$ ⑤ prove that every cyclic group is abelian.	NO.
03:45 pm to 4:30 pm	S.Y.B.Sc	Lagrange's multiplier	* Lagrange's multiplier method Examples ① Find the critical point of the function $f(x,y) = (y^2 + x^2)e^{\sqrt{y} - x^2}$ ② Find the three positive numbers whose sum is 100 and whose product is maximum.	NO.

Book referred

John B. Fritzsche, (S.Y.B.Sc) Nirali publication

Other activities

  
 Signature of the Lecturer

# DAILY RECORD

Date: 31 / 12 / 2021

DAY: Friday


Time	Class	Topic	Points covered	Remarks
12.25 pm to 01.10 pm	S.Y.B.Sc	Examples	① A rectangular box without a top is to be made from $12m^2$ of cardboard. Find the maximum volume of such a box. ② Find the extreme values of the function $f(x,y,z) = x^2 + 2y^2$ on the circle $x^2 + y^2 = 1$ .	NO.
02.15 pm to 03.00 pm of 03.00 pm to 03.45 pm	T.Y.B.Sc	Division Algorithm for $\mathbb{Z}$ .	Division Algorithm for $\mathbb{Z}$ ① Find the quotient $q$ & remainder $r$ when 38 is divided by 7 -38 is divided by 7 Relatively prime integer Gcd. ① Find the gcd of 42 & 72 Th <sup>m</sup> . Let $G$ be a cyclic group of infinite order then prove that $G \cong \langle \mathbb{Z}, + \rangle$ .	NO

Book referred

John B. Fraleigh, (S.Y.B.Sc) Nirali publication.

Other activities

  
 Principal  
 S.S.G.M. College  
 Kopergaon

  
 Signature of the Lecturer

# DAILY RECORD

Date: 01 / 01 / 2022


DAY: Saturday

Time	Class	Topic	Points covered	Remarks
12.25 pm to 01.10 pm.	T.Y.B.Sc	Theorem	<p><u>Th<sup>m</sup></u>: If <math>G</math> is cyclic group generated by <math>a</math> then <math>a^{-1}</math> is also generator of <math>G</math>.</p> <p><u>Th<sup>m</sup></u>: Let <math>G = \langle a \rangle</math> then  <math> G  = o(a)</math></p> <p><u>Th<sup>m</sup></u>: Let <math>G</math> be a cyclic group with <math>n</math> elements &amp; generated by <math>a</math>. let <math>b \in G</math> &amp; <math>b = a^s</math> then <math>b</math> generates a cyclic subgroup <math>H</math> of <math>G</math> containing <math>\frac{n}{d}</math> elements. where <math>d = \text{gcd}(n, s)</math>.</p>	NO.
03.00 pm to 03.45 pm.	S.Y.B.Sc	Example	<p>① Find the extreme values of the function <math>f(x, y) = x^2 + 2y^2</math> on the circle <math>x^2 + y^2 = 1</math>.</p> <p>② Find the points on the sphere <math>x^2 + y^2 + z^2 = 4</math> that are closest &amp; farthest from the point <math>(3, 1, -1)</math>.</p>	NO

Book referred

John B. Fraleigh, (S.Y.B.Sc) Nirali Publication.

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 02/10/2022

DAY: Sunday

Time	Class	Topic	Points covered	Remarks
			<p>प्रोग्रामिक डॉ. सी. सुशीमाबाई शंकरराव काळे (भाई) शांते सहली प्रोब्लम भक्त शक्ति महासिखासमीत राजमन्त्रीय वंचित्य स्पर्धा (ऑनलाइन)</p>	

Book referred

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 03/01/2022

DAY: Monday

Time	Class	Topic	Points covered	Remarks
			IAE 2021-22 Term-I 03/01/2022 to 06/01/2022	

Book referred

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 04/01/2022

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
12.25 PM to 01.10 PM	T.Y.B.Sc	Examples	IAE. 2021-22 10.30 am to 11.10 am MT 353 Group Theory  Find All generators of $\mathbb{Z}_{12}$ Also draw subgroup diagram ② Find All generators of $\mathbb{Z}_{18}$ Also draw subgroup diagram ③ Find All generators of $\mathbb{Z}_{36}$ Also draw subgroup diagram ④ Find the number of elements in the indicated cyclic group ⑤ subgroup of $\mathbb{Z}_{30}$ generated by 25	NO.

Book referred

J.B. Fraleigh

Other activities

  
 Signature of the Lecturer



# DAILY RECORD

Date: 05/01/2022

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12.25pm to 01.10pm	T.Y.B.Sc	Examples	<p>IAE. 2021-22. 10.30am to 11:30 am MT-331. <del>At</del> calculus of several variables. 11.10 pm to 11.40 pm (01.00 pm to 01.30 am) MT-356(B) Number Theory.</p> <p>① <del>Find</del> corollary Let <math>G</math> be a finite cyclic group of order <math>n</math> with generator <math>a</math> then <math>a^r</math> is a generator of <math>G</math> if <math>r</math> is relatively prime to <math>n</math>. Examples: Find the order of subgroup of <math>\mathbb{Z}_{42}</math> generated by 30.</p>	NA

Book referred

John B. Fraleigh

Other activities



Signature of the Lecturer

# DAILY RECORD

Date: 06/01/2022

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
11.40 to 12.25 pm + 12.25 pm to 01.10 pm	T.Y.B.Sc	Examples	<p>① Find the order of each element of the group <math>U_4</math></p> <p>② Find the order of each element of the group <math>\mathbb{Z}_6</math>.</p> <p>③ If <math>G = \langle a \rangle</math> is a cyclic group of order 30</p> <p>④ How many subgroup of <math>G</math> have</p> <p>⑤ find <math>\langle a^5 \rangle</math> &amp; <math>\langle a^6 \rangle</math>.</p> <p>⑥ find all other generators of <math>G</math>.</p> <p>* Automorphism.</p> <p>① find the number of automorphism of given group</p> <p>① <math>\mathbb{Z}_2</math></p> <p>② <math>\mathbb{Z}_6</math></p> <p>③ <math>\mathbb{Z}_8</math></p> <p>④ <math>\mathbb{Z}_{12}</math></p>	ND

Book referred

John B. Fraleigh

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 07/01/2022

DAY: Friday.

Time	Class	Topic	Points covered	Remarks
02.15 pm to 03.00 pm & 03.00 pm to 03.45 pm.	T.Y.B.Sc	quadratic Residues	chap-3. Quadratic Residues. * Quadratic Residue * Legendre symbol. Th <sup>m</sup> . Let $p$ be an odd prime then i. $\left(\frac{a}{p}\right) \equiv a^{\frac{p-1}{2}} \pmod{p}$ . ii. $\left(\frac{a}{p}\right)\left(\frac{b}{p}\right) = \left(\frac{ab}{p}\right)$ . iii. If $a \equiv b \pmod{p}$ then $\left(\frac{a}{p}\right) = \left(\frac{b}{p}\right)$ iv. If $(a, p) = 1$ then $\left(\frac{a^2}{p}\right) = 1, \left(\frac{ab}{p}\right) = \left(\frac{b}{p}\right)$ v. $\left(\frac{1}{p}\right) = 1$ and $\left(\frac{-1}{p}\right) = (-1)^{\frac{p-1}{2}}$ . Examples find (i) $\left(\frac{3}{5}\right)$ (ii) $\left(\frac{60}{13}\right)$ (iii) $\left(\frac{-38}{13}\right)$ (iv) $\left(\frac{-7}{23}\right)$	No.

Book referred

An introduction to the theory of Numbers.

Other activities



Signature of the Lecturer

# DAILY RECORD

Date: 08/01/2022

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
12:40 am to 12:25 pm & 12:25 pm to 01:10 pm	T.Y.B.Sc	Gauss lemma	IAE- 2021-22 Practical Internal Practical Lab Course-3  Gauss lemma, Let $p$ be odd prime with $(a, p) = 1$ consider the integers $a, 2a, \dots, \left(\frac{p-1}{2}\right)a$ & their least positive residues modulo $p$ . If $n$ denotes the number of these residues that exceeds $\left(\frac{p}{2}\right)$ then show that $\left(\frac{a}{p}\right) = (-1)^n$ Examples Find ① $\left(\frac{5}{13}\right)$ ② $\left(\frac{8}{11}\right)$ . *Greatest Integer.	No.

Book referred

An introduction to the theory of Numbers

Other activities

  
 Signature of the Lecturer

# DAILY RECORD

Date: 10 / 01 / 2022

DAY: Monday

Time	Class	Topic	Points covered	Remarks
12.25 pm to 01.10 pm φ 01.10 pm to 01.55 pm	T.Y.B.Sc	Examples	<p><u>Th<sup>m</sup></u>                      If <math>p</math> is an odd prime &amp;  <math>(a, 2p) = 1</math> then  <math>\left(\frac{a}{p}\right) = (-1)^n</math> where  <math display="block">n = \sum_{j=1}^{p-1} \left[ \frac{ja}{p} \right]</math>                     Also <math>\left(\frac{2}{p}\right) = (-1)^{\frac{p-1}{8}}</math></p> <p>Examples</p> <p>① Prove that 3 is a quadratic residue of 13. but a quadratic non-residue of 7.</p> <p>② Prove that if <math>p</math> is an odd prime then <math>x^2 \equiv 2 \pmod{p}</math> has solutions iff <math>p \equiv 1 \text{ or } 7 \pmod{8}</math></p> <p>③ Which of following congruences has solutions</p> <p>i. <math>x^2 \equiv 2 \pmod{61}</math></p> <p>ii. <math>x^2 \equiv 2 \pmod{59}</math>.</p>	No.

Book referred

An introduction to the Theory of Numbers.

Other activities



Signature of the Lecturer

# DAILY RECORD

Date: 11 / 01 / 2022

DAY: Tuesday


Time	Class	Topic	Points covered	Remarks
10.30 AM to 10.55 PM <del>10.55 PM</del> to 10.55 PM to 11.40 PM & 11.40 PM to 12.25 PM.	T.Y.B.Sc	Gaussian Reciprocity law.	<p>Gaussian Reciprocity law. If <math>p</math> &amp; <math>q</math> are distinct odd primes then</p> $\left(\frac{p}{q}\right)\left(\frac{q}{p}\right) = (-1)^{\frac{p-1}{2}\frac{q-1}{2}}$ <p>Examples</p> <p>① find the Legendre's symbol</p> <p>① <math>\left(\frac{-42}{61}\right)</math>    ② <math>\left(\frac{10}{89}\right)</math></p> <p>③ show that <math>x^2 \equiv -46 \pmod{7}</math> has no sol<sup>n</sup></p> <p>④ find all primes <math>p</math> such that <math>\left(\frac{5}{p}\right) = -1</math></p> <p>⑤ find all primes <math>p</math> such that <math>\left(\frac{10}{p}\right) = 1</math>.</p>	NO.
01.10 PM to 01.55 PM	S.Y.B.Sc	Examples	<p>① use the method of Lagrange multipliers to minimize <math>f(x,y) = x^2 + y^2 + z^2</math> subject to the given constraints. <math>x + y + z = 1</math>.</p>	NO.

Book referred

An introduction to theory of numbers

Other activities

(S.Y.B.Sc) Nirali Publication.

  
Signature of the Lecturer

# DAILY RECORD

Date: 12/01/2022

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
10:55 pm to 11:40 pm f 11:40 pm to 12:25 pm	T.Y.B.Sc	Greatest Integer function.	<p>* JWB's symbol.</p> <p>Examples</p> <p>① Find <math>(\frac{2}{15})</math>,</p> <p>② Find <math>(\frac{27}{35})</math>, <math>(\frac{24}{25})</math>, <math>(-\frac{23}{89})</math></p> <p>chap-4 Greatest integer function.</p> <p><u>Th<sup>m</sup></u> de-polignac's formula Let p be a prime then the largest exponent of p such that <math>p^e   n!</math> is</p> $e = \sum_{i=1}^{\infty} \left[ \frac{n}{p^i} \right]$ <p><u>Ex.</u></p> <p>① Find the highest power of 7 that divides 1000!</p> <p>② Find the highest power of 2 that divides 533!</p>	NO.

Book referred

An introduction to theory of Numbers

Other activities



Signature of the Lecturer

# DAILY RECORD

Date: 13 / 01 / 2012

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:40 am to 12:25 pm + 12:25 pm to 01:10 pm.	T.Y. B.Sc	Examples	<p>D. For what value of real number the following are true</p> <p>i. <math>[x] + [2x] = [2x]</math></p> <p>ii. <math>[x+3] = 3 + [x]</math></p> <p>iii. <math>[x + \frac{1}{2}] + [x - \frac{1}{2}] = [2x]</math></p> <p>iv. <math>[x] + [x + \frac{1}{2}] = [2x]</math></p> <p>② Find the highest power of 6 that divides <math>533!</math></p> <p>③ Find the number of zero's with which the decimal representation of <math>50!</math> terminates.</p> <p>④ Find the number of zero's with which the decimal representation of <math>1000!</math> terminates</p> <p>⑤ Find the highest power of 15 that divides <math>2000!</math>.</p>	NO.

Book referred

An introduction to theory of Numbers

Other activities



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# DAILY RECORD

Date: 15/01/2022

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
12.25 PM to 01.10 PM & 01.10 PM to 01.55 PM.	T.Y.B.Sc	Arithmetic function	<p>Examples -</p> <p>① If <math>n = 12</math> then find <math>d(n)</math>, <math>\phi(n)</math>, <math>\omega(n)</math> &amp; <math>\Omega(n)</math>.</p> <p>② If <math>n = 180</math> then find <math>d(n)</math>, <math>\phi(n)</math>, <math>\omega(n)</math> &amp; <math>\Omega(n)</math>.</p> <p><u>Th<sup>m</sup></u>: for each +ve integer <math>n</math>  <math display="block">d(n) = \prod_{p n} (\alpha + 1).</math></p> <p><u>Th<sup>m</sup></u>: for every positive integer <math>n</math>                      prove that <math display="block">\phi(n) = \prod_{p n} \left( \frac{p^{\alpha+1} - 1}{p - 1} \right)</math></p> <p><u>Th<sup>m</sup></u>: for every +ve <math>n \in \mathbb{Z}</math>  <math display="block">\sum_{d n} \phi(d) = n.</math></p> <p><u>Ex</u> ① Find the smallest integer <math>n</math> such that <math>\phi(n) = 6</math>.</p> <p>② Find <math>d(900)</math> &amp; <math>\phi(900)</math></p>	NO.

Book referred

An introduction to theory of Numbers.

Other activities

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# DAILY RECORD

Date: 17/01/2012


DAY: Monday

Time	Class	Topic	Points covered	Remarks
12.25 pm to 01.10 pm of 01.10 pm to 01.55 pm	T.Y. Bsc	Examples Mobius my function	<p>* Mobius mu function</p> <p><u>Th<sup>m</sup></u> - The function <math>\mu(n)</math> is multiplicative. &amp;</p> $\sum_{d n} \mu(d) = \begin{cases} 1, & n=1 \\ 0, & n>1. \end{cases}$ <p>Mobius-Inversion formula.</p> <p>If <math>F(n) = \sum_{d n} f(d)</math> for every +ve integer <math>n</math></p> <p>then <math>f(n) = \sum_{d n} \mu(d) \cdot F\left(\frac{n}{d}\right)</math>.</p> <p>Examples</p> <p>① Find a +ve integer <math>n</math> such that <math>\mu(n) + \mu(n+1) + \mu(n+2) = 3</math>.</p> <p>② prove that <math>\mu(n) \cdot \mu(n+1) \cdot \mu(n+2) \cdot \mu(n+3) = 0</math> if <math>n</math> is +ve integer</p> <p>③ Find <math>\sum_{j=1}^{\infty} \mu(j)!</math>.</p> <p>④ Find all solutions <math>x</math> of <math>\phi(x) = 24</math>.</p>	NO.

Book referred

An introduction to theory of Numbers

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 18/01/2022

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
03.00pm to 03.45pm	T.Y.B.Sc	chap-5 linear diophantine eqn	chap-5 linear diophantine equation * linear diophantine eqn Ex: Examples ① Find all solutions of the following linear diophantine equation. ① $172x + 20y = 1000$ ② $56x + 72y = 40$ ③ $24x + 138y = 18$ ④ $24x + 35y = 11$ ⑤ $12x + 50y = 1$	No.

Book referred

An introduction to theory of Numbers.

Other activities



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# DAILY RECORD

Date: 19 / 01 / 2022

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25 pm	S.Y. B.Sc	Chap-4 Multiple integral	chap-4 Multiple Integral * Fubini's th <sup>m</sup> . Examples ① Find $\iint_R (x^2 - y^2) dA$ where $R = \{(x, y) \mid 1 \leq x \leq 2, 1 \leq y \leq 2\}$ ② Find $\int_0^1 \int_0^2 (2xy^2 - y^3) dxdy$	NO.
12:25 pm to 01:10 pm f 01:10 pm to 01:55 pm.	T.Y. B.Sc	Pythagorean Triple	* Pythagorean Triple. * Primitive Pythagorean triple. Examples. ① If $x, y, z$ is primitive Pythagorean triple then one of the integer $x$ or $y$ is even while other is odd ② Find all +ve primitive Pythagorean triples for which $0 < z < 30$ .	NO.

Book referred

An introduction to theory of numbers

Other activities

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## DAILY RECORD

Date: 20/01/2022

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
12.25 pm to 01.10 pm	S.Y.B.Sc	Examples	① Evaluate $\iint_D (x+2y) dA$ where $D$ is the region bounded by the parabolas $y = 2x^2$ and $y = 1+x^2$ ② Evaluate $\int_0^1 \int_{x^2}^x (1+2y) dy dx$ . ③ Evaluate $\iint_D y dA$ where $D$ is enclosed by the curves $x = y^2$ and $y = x - 2$ .	No.
2.15 pm to 03.00 pm + 03.00 pm to 03.45 pm.	T.Y.B.Sc	Examples	① prove that if $x, y, z$ is a primitive Pythagorean triple then atleast one of $x, y$ is divisible by 3. ② prove that if $x, y, z$ is a primitive Pythagorean triple then atleast one of $x, y, z$ is divisible by 5.	No.

Book referred

An introduction to theory of Numbers.  
(S.Y.B.Sc) Nitati Publication

Other activities



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# DAILY RECORD

Date: 21 / 01 / 2022

DAY: Friday

Time	Class	Topic	Points covered	Remarks
12-25 pm to 01-10 pm	S.Y.B.Sc	Examples	① Evaluate $\iint_P y^2 xy e^y dA$ . where $D$ is bounded by $x=y$ , $y=4$ , $x=0$ . ② Evaluate $\iint_D xy^2 dA$ where $D$ is enclosed by $x=0$ , $x=\sqrt{1-y^2}$ ③ Evaluate $\iint_D xy dA$ where $D$ is enclosed by the curves $y=x^2$ , and $y=3x$ .	NO.
02-15 pm to 03-00 pm f 03-00 pm to 03-45 pm.	F.Y.B.Sc	chap-3 <del>Examples</del> Permutation	* permutation Ex ① Determine whether the given function is permutation of $\mathbb{R}$ ① $f_1: \mathbb{R} \rightarrow \mathbb{R}$ defined by $f_1(x) = x+1$ ② $f_2: \mathbb{R} \rightarrow \mathbb{R}$ defined by $f_2(x) = x^2$ ③ $f_3: \mathbb{R} \rightarrow \mathbb{R}$ defined by $f_3(x) = -x^3$ ④ $f_4: \mathbb{R} \rightarrow \mathbb{R}$ defined by $f_4(x) = e^x$ .	NO

Book referred

J.B. Fraleigh, (S.Y.B.Sc) Nirali publications

Other activities



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**DAILY RECORD**

Date: 24/01/2021

DAY: Monday

Time	Class	Topic	Points covered	Remarks
10:55 pm to 11:40 pm of 11:40 pm to 12:25 pm.	T.Y.B.Sc	Cayley Theorem	<p>① Cayley theorem. Every group is isomorphic to a group of permutation</p> <p>Examples</p> <p>① Let <math>\sigma = \begin{pmatrix} 1 &amp; 2 &amp; 3 &amp; 4 &amp; 5 &amp; 6 \\ 3 &amp; 1 &amp; 4 &amp; 5 &amp; 6 &amp; 2 \end{pmatrix}</math> &amp; <math>\tau = \begin{pmatrix} 1 &amp; 2 &amp; 3 &amp; 4 &amp; 5 &amp; 6 \\ 2 &amp; 4 &amp; 1 &amp; 3 &amp; 6 &amp; 5 \end{pmatrix}</math> find</p> <p>i. <math>\sigma^{-1}</math> ii. <math>\sigma^{-1}\tau\sigma</math> iii. <math>\sigma^{-2}\tau</math></p> <p>iv. <math>\langle \sigma \rangle</math> v. <math>\langle \tau \rangle</math></p> <p>v. <math>\sigma^{100}</math> in <math>S_6</math>.</p>	NO.
01:10 pm to 01:55 pm.	S.Y.B.Sc	Example	<p>② change the order of integration</p> <p>① <math>\int_0^1 \int_0^4 f(x,y) dx dy</math></p> <p>② <math>\int_0^2 \int_{x^2}^4 f(x,y) dx dy</math></p> <p>③ <math>\int_{-2}^2 \int_0^{\sqrt{1-y^2}} f(x,y) dx dy</math>.</p>	NO.

Book referred

J.B. Fraleigh, (S.Y.B.Sc) Nivali publications

Other activities



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# DAILY RECORD

Date: 25/01/2022


DAY: Tuesday.

Time	Class	Topic	Points covered	Remarks
11:40 pm to 12:25 pm	S.Y.B.Sc	EXAMPE	change the order of integration No. and Evaluate ① $\int_0^1 \int_{3y}^3 e^{x^2} dx dy$ ② $\int_0^1 \int_x^1 e^{\frac{x}{y}} dy dx$ * Double integrals in polar coordinates.	
12:25 pm to 01:10 pm of 01:10 pm to 01:55 pm.	TY.B.Sc	Example	① Let $\delta = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 \\ 3 & 1 & 4 & 5 & 6 & 2 \end{pmatrix}$ and $\gamma = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 \\ 2 & 4 & 1 & 3 & 6 & 5 \end{pmatrix}$ Compute ① $\delta^{-1}$ ② $\delta^{-1} \gamma$ ③ $\delta^{-2} \gamma$ ④ $ \langle \delta \rangle $ ⑤ $ \langle \gamma \rangle $ ⑥ $\delta^{100}$ in $S_6$ . ⑦ $\gamma^{100}$ in $S_6$ .	

Book referred

John B. Fraleigh, (S.Y.B.Sc) Nivali publication.

Other activities

  
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# DAILY RECORD

Date: 27 / 01 / 2022


DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10.55 am to 11.40 am f 11.40 am to 12.25 pm	T.Y. B.Sc	Examples	① find the number of elements in the set $\{\sigma \in S_4 \mid \sigma(3) = 3\}$ ② find the number of elements in the set $\{\sigma \in S_5 \mid \sigma(3) = 1 \neq \sigma(5) = 2\}$ ③ draw the subgroup diagram of $S_3$ ④ show that $S_3$ is nonabelian group for $n \geq 3$ . ⑤ for $a, b \in A$ , let $a \sim b$ iff $b = \sigma^n(a)$ for some $n \in \mathbb{Z}$ . show that $\sim$ is an equivalence relation.	NO.
12.25 pm to 01.10 pm.	S.Y. B.Sc	Examples	① Evaluate $\iint_R (3x + 4y^2) dA$ where $R$ is the region in the upper half-plane bounded by the circles $x^2 + y^2 = 1$ & $x^2 + y^2 = 4$ . ② Evaluate $\iint_R (2x - y) dA$ where $R$ is the region enclosed by the circle $x^2 + y^2 = 1$ & $x = 0, y = x$ .	NO.

Book referred

John B. Fraleigh, (S.Y. B.Sc) Nivali publication.

Other activities

  
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# DAILY RECORD

Date: 31 / 01 / 2022

DAY: Monday

Time	Class	Topic	Points covered	Remarks
03.00 pm to 03.45 pm + 03.45 pm to 04.30 pm.	T.Y. B.Sc	orbits.	<p>Equivalence class, orbits. Examples</p> <p>① Find all orbits of identity permutation.</p> <p>② Find all orbits of the permutation.</p> <p><math>\sigma = \begin{pmatrix} 1 &amp; 2 &amp; 3 &amp; 4 &amp; 5 &amp; 6 &amp; 7 &amp; 8 \\ 3 &amp; 8 &amp; 6 &amp; 7 &amp; 4 &amp; 1 &amp; 5 &amp; 2 \end{pmatrix}</math> in <math>S_8</math></p> <p>③ Find all orbits of the permutation</p> <p><math>\sigma = \begin{pmatrix} 1 &amp; 2 &amp; 3 &amp; 4 &amp; 5 &amp; 6 \\ 5 &amp; 1 &amp; 3 &amp; 6 &amp; 2 &amp; 4 \end{pmatrix}</math> in <math>S_6</math>.</p> <p>④ Find all orbits of the permutation</p> <p><math>\sigma = \begin{pmatrix} 1 &amp; 2 &amp; 3 &amp; 4 &amp; 5 &amp; 6 &amp; 7 &amp; 8 \\ 5 &amp; 6 &amp; 2 &amp; 4 &amp; 8 &amp; 3 &amp; 1 &amp; 7 \end{pmatrix}</math></p> <p>⑤ find all orbits of the permutation in <math>S_n</math>.  <math>\sigma: \mathbb{Z} \rightarrow \mathbb{Z}</math> where <math>\sigma(n) = n+2</math>  <math>\sigma: \mathbb{Z} \rightarrow \mathbb{Z}</math> where <math>\sigma(n) = n+1</math>.</p>	NO.

Book referred

John B. Fraleigh.

Other activities

  
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 Signature of the Lecturer

# DAILY RECORD

Date: 01/02/2022

DAY: Tuesday.

Time	Class	Topic	Points covered	Remarks
12.25 pm to 01.10 pm of 01.10 pm to 01.55 pm.	T.Y.B.Sc	cycle, length.	cycle and length of the cycle Ex ① Find the length of $\sigma = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 \\ 3 & 2 & 5 & 1 & 4 \end{pmatrix}$ in $S_5$ . ② Express the given permutation as product of disjoint cycles. i. $\sigma = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 \\ 6 & 5 & 2 & 4 & 3 & 1 \end{pmatrix}$ in $S_6$ . ii. $\sigma = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 \\ 8 & 2 & 6 & 3 & 7 & 4 & 5 & 1 \end{pmatrix}$ in $S_8$ . iii. $\sigma = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 \\ 3 & 6 & 4 & 1 & 8 & 2 & 5 & 7 \end{pmatrix}$ in $S_8$ .	No.
02.15 pm to 03.00 pm of 03.00 pm to 03.30 pm.	S.Y.B.Sc	Examples	* spherical coordinates ① The point $(2, \frac{\pi}{4}, \frac{\pi}{3})$ is given in spherical coordinates. Find its rectangular coordinates. ② The point $(0, 2\sqrt{3}, -2)$ is given in rectangular coordinates. Find spherical coordinates for this point.	No.

Book referred

John B. Fraleigh. (S.Y.B.Sc) Nirali publication

Other activities



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# DAILY RECORD

Date: 02/02/2022

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
			IQAC meeting. Time:- 11.30 am to 04.30 pm.	

Book referred

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 03/02/2022

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
2.15 pm to 03.00 pm	S.Y.B.Sc	Examples	<p>Criterion-VI meeting Time: 11.30 am to 1.30 pm.</p> <p>① Evaluate the triple integral <math>\iiint_B (x^2 + y^2 + z^2) dv</math> where B is the ball with center the origin and radius 5</p> <p>② Evaluate the triple integral <math>\iiint_B (9 - x^2 - y^2) dv</math> where B is the <del>ball</del> solid hemisphere <math>x^2 + y^2 + z^2 \leq 9, z \geq 0</math>.</p>	NO.

Book referred

(S.Y.B.Sc) Nirali publication

Other activities



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# DAILY RECORD

Date: 04/02/2012

DAY: Friday

Time	Class	Topic	Points covered	Remarks
<del>7.45 am</del> 12.40 am to 12.25 pm & 12.25 pm to 01.10 pm	T.Y.B.Sc	Examples	Transposition. Corollary. Any permutation of a finite set of atleast two elements, is a product of transposition Even permutation odd permutation. Ex Determine wheather the given permutations is even or odd. ① $\sigma = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 \\ 8 & 2 & 6 & 3 & 7 & 4 & 5 & 1 \end{pmatrix}$ ② $\sigma = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 \\ 5 & 1 & 3 & 6 & 2 & 4 \end{pmatrix}$ ③ $\sigma = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 \\ 3 & 1 & 4 & 7 & 2 & 5 & 8 & 6 \end{pmatrix}$	NO
2.15 pm to 03.00 pm	S.Y.B.Sc	Examples	Evaluate $\iiint_B y^2 dv$ . where $B$ is the solid hemisphere $x^2 + y^2 + z^2 \leq 9, y \geq 0$ .	NO.

Book referred

J. B. Fraleigh, (S.Y.B.Sc) Nisarg publication

Other activities

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# DAILY RECORD

Date: 05/10/2022


DAY: Saturday

Time	Class	Topic	Points covered	Remarks
12.25 pm to 01.10 pm f 01.10 pm to 01.55 pm	T.Y.B.Sc	Cosets.	Alternating group. order of an elements. Ex ① Find the order of permutation $\sigma = (1, 4, 5, 7)$ in $S_8$ ② find the order of permutation $\sigma = (4, 5)(2, 3, 7)$ in $S_8$ ③ Find the order of permutation $\sigma = (1, 4)(3, 5, 7, 8)$ ④ Find the order of permutation $\sigma = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 \\ 5 & 6 & 2 & 4 & 8 & 3 & 1 & 7 \end{pmatrix}$ in $S_8$	NO
02.15 to 03.00 pm f 03.00 pm to 03.45 pm	S.Y.B.Sc	Examples.	Evaluate $\iiint_B e^{(x^2+y^2+z^2)} dv$ . where $B$ is the unit ball $x^2+y^2+z^2 \leq 1$ .	NO.

Book referred

J.B. Fraleigh, (S.Y.B.Sc) Nirali publication

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 08 / 02 / 2012

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25 pm + 12:25 pm to 01:10 pm	S.Y.B.Sc	Jacobian	<p>Jacobian Ex.</p> <p>① Find the Jacobian for the following transformation</p> <p>① <math>x = r \cos \theta, y = r \sin \theta</math></p> <p>② <math>x = uv, y = \frac{u}{v}</math></p> <p>③ <math>x = e^{-y} \cos \theta, y = e^y \sin \theta</math></p> <p>④ <math>x = e^{s+t}, y = e^{s-t}</math></p> <p>⑤ <math>x = \frac{u}{v}, y = \frac{v}{w}, z = \frac{w}{u}</math></p>	NO.
2:15 pm to 03:00 pm + 03:00 pm to 03:45 pm	T.Y.B.Sc	Examples	<p>Left cosets of subgroup right cosets of subgroup</p> <p>Ex ① find all cosets for the following subgroup</p> <p>① <math>G = \mathbb{Z}, H = 3\mathbb{Z}</math></p> <p>② <math>G = \mathbb{Z}_6, H = \{0, 3\}</math></p> <p>③ <math>G = \mathbb{Z}_{10}, H = \langle 2 \rangle</math></p>	NO

Book referred

J.B. Fraleigh, (S.Y.B.Sc) Nivali publication.

Other activities

  
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# DAILY RECORD

Date: 09/02/2022

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12.00 pm to 2.30 pm	S.Y.B.Sc	Examples of maxima software	<p>Ex:</p> <p>① Evaluate the integral <math>\iint_R (x-3y) dA</math>, where <math>R</math> is the triangular region with vertices <math>(0,0), (2,1), (1,2)</math> by using the transformation <math>x=2u+v, y=u+2v</math>.</p> <p>② Evaluate <math>\iint_R (4x+8y) dA</math> where <math>R</math> is the region of parallelogram with vertices <math>(-1,3), (1,-3), (3,-1), (1,5)</math> using the transformation <math>x=\frac{1}{4}(4+u), y=\frac{1}{4}(v-3u)</math></p> <p>Maxima practical. Practical No. 05.</p>	No.

Book referred

(S.Y.B.Sc) Nirali Publication

Other activities



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End of syllabus.  
S.Y.B.Sc.  
calculus of several variables.

## DAILY RECORD

Date: 10/02/2012

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
11.00am to 11.40am + 11.40am to 12.25pm. + 03.00pm to 03.45pm	S.Y.B.Sc.	Maxima Practical.	Practical NO. 05 Problem on unit 01 of unit 02 using maxima software.  Practical No. 06. Problem on unit 03 of unit 04 using maxima software.	No.

Book referred

(S.Y.B.Sc) Nivali publication

Other activities



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# DAILY RECORD

Date: 11/02/2012

DAY: Friday

Time	Class	Topic	Points covered	Remarks
02.15 pm to 03.00 pm & 03.00 pm to 03.45 pm	T.Y. B.Sc	Lagrange's Th <sup>m</sup> of index.	<p>* Theorem of Lagrange. Let <math>H</math> be a subgroup of a finite group <math>G</math> then the order of <math>H</math> is a divisor of order of <math>G</math>.</p> <p>Corollary:- Every group of prime order is cyclic.</p> <p>Th<sup>m</sup>:- The order of an element of a finite group divides the order of the group.</p> <p>* Index of a subgroup. ① Let <math>G = \mathbb{Z}</math> &amp; <math>H = 3\mathbb{Z}</math> find <math>(G:H)</math> ② Let <math>G = \mathbb{Z}_{12}</math> &amp; <math>H = \langle 2 \rangle</math>. find <math>(G:H)</math>.</p>	ND.

Book referred

J. B. Fraleigh

Other activities



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# DAILY RECORD

Date: 12/02/2012

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25 pm P 12:25 pm to 01:10 pm	T.Y.B.Sc	Direct product	<ul style="list-style-type: none"> <li>* Direct product</li> <li>* Direct sum.</li> <li>* Examples</li> <li>① prove that a direct product of abelian group is abelian</li> <li>② List the elements of <math>\mathbb{Z}_2 \times \mathbb{Z}_3</math> and show that <math>\mathbb{Z}_2 \times \mathbb{Z}_3</math> is cyclic</li> <li>③ prove that <math>\mathbb{Z}_3 \times \mathbb{Z}_3</math> is not cyclic</li> <li>④ prove that <math>\mathbb{Z}_2 \times \mathbb{Z}_2</math> is not cyclic.</li> <li>⑤ find the order of the element (2,3) in <math>\mathbb{Z}_4 \times \mathbb{Z}_5</math></li> <li>⑥ find the order of (3,10,9) in <math>\mathbb{Z}_6 \times \mathbb{Z}_{12} \times \mathbb{Z}_{18}</math>.</li> </ul>	NO.

Book referred

J.B. Fraleigh

Other activities



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# DAILY RECORD

Date: 14/02/2022

DAY: Monday

Time	Class	Topic	Points covered	Remarks
12.25 PM to 01.10 PM & 01.10 PM to 01.55 PM.	T.Y.B.Sc	Examples	<p>① Th<sup>m</sup>.</p> <p>The group <math>\mathbb{Z}_m \times \mathbb{Z}_n</math> is cyclic and is isomorphic to <math>\mathbb{Z}_{mn}</math> iff <math>m</math> and <math>n</math> relatively prime.</p> <p>① Find the order of given element in the product</p> <p>i. <math>(2, 6)</math> in <math>\mathbb{Z}_4 \times \mathbb{Z}_{12}</math></p> <p>ii. <math>(2, 3)</math> in <math>\mathbb{Z}_6 \times \mathbb{Z}_{15}</math></p> <p>② consider the group <math>\mathbb{Z}_4 \times \mathbb{Z}_2</math></p> <p>i. find the order of each of the elements</p> <p>ii. draw the subgroup diagram of <math>\mathbb{Z}_4 \times \mathbb{Z}_2</math></p> <p>③ consider the group <math>\mathbb{Z}_3 \times \mathbb{Z}_4</math></p> <p>i. find the order of each of the elements</p> <p>ii. draw the subgroup diagram of <math>\mathbb{Z}_3 \times \mathbb{Z}_4</math></p>	ND.

Book referred

J. B. Fraleigh

Other activities



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# DAILY RECORD

Date: 15/02/2022

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
11.40 am to 12.25 pm 12.25 pm to 01.10 pm ☿ 01.10 pm to 01.55 pm	T-7.B.Sc	Homomorphism	Chap-4 Homomorphism and factor group. * Homomorphism. Examples ① Let $\phi: G \rightarrow G'$ be a group homomorphism. if $G$ is abelian then $G'$ is also abelian ② Evaluation homomorphism ③ Reduction modulo $n$ . ④ Let $\phi: \mathbb{Z} \rightarrow \mathbb{R}$ under addition given by $\phi(n) = n$ . show that $\phi$ is homo. ⑤ Let $\phi: \mathbb{R} \rightarrow \mathbb{R}^*$ be given by $\phi(x) = 2^x$ for $x \in \mathbb{R}$ show that $\phi$ is homo.	ND.

Book referred

J.B. Fraleigh

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 16/02/2012

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
10.55 pm to 11.40 pm + 11.40 pm to 12.25 pm + 12.25 pm to 01.10 pm	T.Y.B.Sc	Kernel & Factor group.	<p>* Kernel of homomorphism * Normal subgroup</p> <p>Examples</p> <p>① compute the indicated quantities</p> <p>① <math>\text{Ker}(\phi) \&amp; \phi(25)</math> for <math>\phi: \mathbb{Z} \rightarrow \mathbb{Z}_7</math> such that <math>\phi(1) = 4</math></p> <p>② <math>\text{Ker}(\phi) \&amp; \phi(18)</math> for <math>\phi: \mathbb{Z} \rightarrow \mathbb{Z}_{10}</math> &amp; <math>\phi(1) = 6</math>.</p> <p>③ <math>\text{Ker}(\phi) \&amp; \phi(20)</math> for <math>\phi: \mathbb{Z} \rightarrow S_8</math> s.t. <math>\phi(1) = (1, 4, 2, 6)(2, 5, 7)</math>.</p> <p><u>Th<sup>m</sup></u>..</p> <p>Let <math>H</math> be a normal subgroup of <math>G</math>. Then the cosets of <math>H</math> form a group <math>G/H</math> under the binary operation  <math>(aH)(bH) = (ab)H</math>.</p> <p>Factor group.</p>	NA

Book referred

J.B. Fraleigh

Other activities

d.

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## DAILY RECORD

Date: 17/02/2022

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
11:40am to 12:25pm + 12:25pm to 01:10pm + 01:10pm to 01:55pm	T.Y.B.Sc	Fundamental $n^{\text{th}}$ of homo.	<p>* <math>n^{\text{th}}</math></p> <p>Let <math>H</math> be a normal subgroup of <math>G</math>. Then <math>\pi: G \rightarrow G/H</math> given by <math>\pi(x) = xH</math> is a homo. with kernel <math>H</math>.</p> <p>* Fundamental <math>n^{\text{th}}</math> of homomorphism</p> <p>Examples.</p> <p>① find the order of factor group</p> <p>i. <math>\mathbb{Z}_6 / \langle 2 \rangle</math>    ii. <math>(\mathbb{Z}_4 \times \mathbb{Z}_2) / (\langle 2 \rangle \times \langle 2 \rangle)</math></p> <p>② find the order of the element</p> <p>i. <math>5 + \langle 4 \rangle</math> in <math>\mathbb{Z}_{12} / \langle 4 \rangle</math>,</p> <p>ii. <math>(2, 0) + \langle (1, 0) \rangle</math> in <math>(\mathbb{Z}_4 \times \mathbb{Z}_2) / \langle (1, 0) \rangle</math></p> <p>iii. <math>(3, 1) + \langle (0, 2) \rangle</math> in <math>(\mathbb{Z}_3 \times \mathbb{Z}_5) / \langle (0, 2) \rangle</math></p>	NO.

Book referred

J. B. Fraleigh

Other activities

  
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## DAILY RECORD

Date: 14/03/2022

DAY: Monday.

Time	Class	Topic	Points covered	Remarks
02.15 pm to 03.00 pm & 03.00 pm to 03.45 pm.	M.Sc-II	Introduction	* Introduction to ① Divisibility ② Division Algorithm. ③ Prime Numbers. ④ G.C.D. ⑤ Euclidean Algorithm. ⑥ Euclid's lemma. ⑦ Some Examples.	NO.

Book referred

Ivan Niven, David M. Burton

Other activities

  
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 S.S.G.M. College  
 Kopergaon

  
 Signature of the Lecturer

# DAILY RECORD


Date: 15 / 03 / 2022

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
11.00 am to 01.00 pm	-	-	Alumni Association Meet Time: 11.00am to 01.00 pm	-

Book referred

Other activities

  
Signature of the Lecturer

## DAILY RECORD

Date: 17 / 03 / 2022

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
12.25 pm to 01.10 pm f 01.10 pm to 01.55 pm	M.Sc-II	Introduction of Divisibility	Introduction * Divisibility * Properties of divisibility * Division Algorithm * Euclid's lemma * Euclidean Algorithm * Prime Number EX ① Find the gcd of 4312 & 2416 Also find $x$ & $y$ s.t $(4312, 2416) = 4312x + 2416y$ ② Find the gcd of 432 & - 789. Also find $x$ & $y$ s.t. $(432, -789) = 432x + (-789)y$	NO.

Book referred

An Introduction to the Theory of Numbers

Other activities



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**DAILY RECORD**

Date: 19/03/2022


DAY: Saturday

Time	Class	Topic	Points covered	Remarks
12.25 PM to 01.10 PM f 22	Misc-II	Congruences	<p>Chap-2 Congruences</p> <p><u>Def<sup>n</sup></u> Let <math>m \neq 0 \in \mathbb{Z}</math>. The integers <math>a</math> &amp; <math>b</math> are said to be congruent modulo <math>m</math> iff <math>m</math> divide <math>(a-b)</math></p> <p><u>Th<sup>m</sup></u>: Let <math>a, b, c, d, x, y \in \mathbb{Z}</math>.</p> <p>① <math>a \equiv b \pmod{m}</math>, <math>b \equiv c \pmod{m}</math> &amp; <math>(a-b) \equiv 0 \pmod{m}</math> are equivalent statements.</p> <p>② If <math>a \equiv b \pmod{m}</math>, <math>b \equiv c \pmod{m}</math> Then <math>a \equiv c \pmod{m}</math></p> <p>③ If <math>a \equiv b \pmod{m}</math> &amp; <math>c \equiv d \pmod{m}</math> Then <math>ax + cy \equiv bx + dy \pmod{m}</math></p> <p>④ If <math>a \equiv b \pmod{m}</math> &amp; <math>c \equiv d \pmod{m}</math> Then <math>ac \equiv bd \pmod{m}</math></p> <p>⑤ If <math>a \equiv b \pmod{m}</math> &amp; <math>d   m</math>. Then <math>a \equiv b \pmod{d}</math>.</p>	NO.

Book referred

An introduction to the Theory of Numbers

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 21 / 03 / 2022

DAY: Monday.

Time	Class	Topic	Points covered	Remarks
02.15 pm to 03.00 pm	M-51-II	Examples	<p><u>Th<sup>m</sup></u>. Let <math>f(x)</math> denote a polynomial with integral coefficients &amp; <math>a \equiv b \pmod{m}</math> then <math>fa \equiv fb \pmod{m}</math></p> <p>Ex</p> <p>① show that 41 divides <math>2^{20} - 1</math>.</p> <p>② Find the remainder when <math>2^{50}</math> are divided by 7</p> <p>③ Find the remainder when <math>41^{65}</math> are divided by 7.</p>	NO

Book referred

An introduction to the Theory of Numbers

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 22/03/2022

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
12.25 pm to 01.10 pm	M.Sc-II	$\mathbb{Z}^m$	<p><math>\mathbb{Z}^m</math> - Let <math>a, x, y, m, m_1, \dots, m_n</math> be integers. then</p> <p>① <math>ax \equiv ay \pmod{m}</math> iff <math>x \equiv y \pmod{\frac{m}{(a,m)}}</math></p> <p>② If <math>ax \equiv ay \pmod{m}</math> &amp; <math>(a,m) = 1</math> then <math>x \equiv y \pmod{m}</math></p> <p>③ <math>x \equiv y \pmod{m_i}</math> <math>i=1, 2, \dots, n</math> then iff <math>x \equiv y \pmod{[m_1, m_2, \dots, m_n]}</math></p> <p><u>Ex</u></p> <p>① If <math>a \equiv b \pmod{m}</math> then <math>(a,m) = (b,m)</math></p> <p>② If <math>a \equiv b \pmod{m}</math> &amp; <math>x &gt; 0</math>. Then <math>ax \equiv bx \pmod{mx}</math></p>	ND

Book referred

An introduction to the theory of Numbers

Other activities



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# DAILY RECORD

Date: 23/03/2022

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
11.40 AM to 12.25 PM	T.Y. B.Sc	Introduction	Introduction of the paper MT-363 Ring theory & Discussion of syllabus.	NO
12.25 PM to 01.10 PM	M.Sc-II	Th <sup>m</sup> of Examples	<p>EX ①</p> <p>Prove that the integer  <math>53^{103} + 103^{53}</math> is divisible by  <math>39</math> &amp; that <math>111^{333} + 333^{111}</math>                      is divisible by <math>7</math>.</p> <p>② What is the remainder                      when the sum <math>1^5 + 2^5 + \dots + 100^5</math>                      is divided by <math>4</math>.</p>	NO.

Book referred

An introduction to the theory of numbers

Other activities



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# DAILY RECORD

Date: 24/03/2022

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
03.00 pm to 03.45 pm	M.Sc-II	Examples	<p>① Find the remainder when <math>13^3 + 14^3</math> is divided by <math>711</math></p> <p>② Find the remainder when <math>3^3 + 82</math> is divided by <math>7</math></p> <p>③ What is the last digit when <math>3^{400}</math> is expressed as an ordinary decimal representation.</p>	110

Book referred

An introduction to the theory of Numbers

Other activities



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# DAILY RECORD

Date: 25/03/2022

DAY: Friday

Time	Class	Topic	Points covered	Remarks
12.25 pm to 01.10 pm of 01.10 pm to 01.55 pm	T.Y.B.Sc	Rings of fields.	chap-1 Rings of Fields. Abelian group. * Ring * Abelian Ring * Unity. Ex ① $\langle \mathbb{Z}, +, \cdot \rangle, \langle \mathbb{Q}, +, \cdot \rangle,$ $\langle \mathbb{R}, +, \cdot \rangle, \langle \mathbb{C}, +, \cdot \rangle.$ $\langle \mathbb{Z}_n, +, \cdot \rangle$ is a ring ② $\langle \mathbb{N}, +, \cdot \rangle, \langle \mathbb{H}, +, \cdot \rangle$ is not a ring.	NO
03.00 pm to 03.45 pm	M.Sc-II	Examples	① for any integers $a$ & $b$ . $a \equiv b \pmod{m}$ iff $a$ & $b$ leaves same remainder when divided by $m$ . * Residue classes.	NO

Book referred

J.B. Fraleigh. An introduction to the theory of numbers.

Other activities



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criticism meeting - 01-30 to 02-30.  
staff Academy meeting - 11-15 to 01-00.

## DAILY RECORD

Date: 26 / 03 / 2012


DAY: Saturday

Time	Class	Topic	Points covered	Remarks
03.00 pm to 03.45 pm f 03.45 pm to 04.30 pm	M.Sc-II	Examples	① prove that $53^{103} + 103^{53}$ is divisible by 39 ② prove that $111^{333} + 333^{111}$ is divisible by 7. ③ what is the remainder when the sum $1! + 2! + 3! + \dots + 99! + 100!$ is divided by 12	ND.

Book referred

An introduction to the theory of Numbers

Other activities

  
Signature of the Lecturer

Head meeting  
11:15 am to 02:00 pm.

## DAILY RECORD

Date: 28/03/2012

DAY: Monday

Time	Class	Topic	Points covered	Remarks
02.15 pm TO 03.00 pm & 03.00 pm TO 03.45 pm	M.Sc-II	Residue classes	* Residue classes. * Complete residue system * Reduced residue system. A reduced residue system modulo $m$ is a set of integers $r_i$ such that $(r_i, m) = 1$ $r_i \not\equiv r_j \pmod{m}$ if $i \neq j$ . every $x$ prime to $m$ is congruent modulo $m$ to some member $r_i$ of the set.	No.

Book referred

An introduction to the theory of numbers

Other activities



Signature of the Lecturer

# DAILY RECORD

Date: 29 / 03 / 2022


DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:55 am to 11:40 pm	T.Y.B.Sc	Example	<p>① show that <math>\mathbb{Q}[\sqrt{2}]</math> is the set of real numbers of the form <math>a+b\sqrt{2}</math> is a commutative ring with unity <math>e = 1 + 0\sqrt{2}</math></p> <p>② show that <math>\mathbb{Z}[\sqrt{2}]</math> is a commutative ring with unity <math>e = 1 + 0\sqrt{2}</math></p>	NO
12:25 pm to 01:10 pm	M.Sc-II	Euler's $\phi$ function	<p>* Euler's <math>\phi</math>-function</p> <p>* Th<sup>m</sup> Let <math>(a, m) = 1</math> &amp; <math>x_1, x_2, \dots, x_n</math> is CRS or PRS modulo <math>m</math> then <math>ax_1, ax_2, \dots, ax_n</math> is also CRS or PRS modulo <math>m</math>.</p>	NO

Book referred

J.B. Fraleigh, An introduction to the theory of Numbers.

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 30/03/2022

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25 pm	M.Sc-II	Euler's Th <sup>m</sup>	<p>* Euler's Generalization Th<sup>m</sup></p> <p>If <math>(a, m) = 1</math> then</p> $a^{\phi(m)} \equiv 1 \pmod{m}$ <p>Fermat Th<sup>m</sup></p> <p>If <math>p</math> is prime with <math>p \nmid a</math></p> <p>then <math>a^{p-1} \equiv 1 \pmod{p}</math></p> <p>Th<sup>m</sup>: Let <math>p</math> be a prime number.</p> <p>then <math>x^2 \equiv 1 \pmod{p}</math> iff</p> $x \equiv \pm 1 \pmod{p}.$	ND
12:25 pm to 02:10 pm	T.Y.B.Sc	Examples	<p>① Let <math>R</math> be the set of all Matrices of the type <math>\begin{bmatrix} a &amp; b \\ 0 &amp; 0 \end{bmatrix}</math> over integers under matrix addition &amp; multi. Then <math>R</math> is non-commutative ring without unity</p> <p>② Let <math>\langle R, +, \cdot \rangle</math> be an abelian group. Show that <math>\langle R, +, \cdot \rangle</math> is a ring if <math>a \cdot b = 0 \forall a, b \in R</math></p>	ND

Book referred

J.B. Fraleigh, An introduction to the theory of Numbers

Other activities

  
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 Kopergaon

  
 Signature of the Lecturer

on day FDP

## DAILY RECORD


Date : 31/03/2022

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
			<p>One Day FDP.</p> <p>An Ensuring Quality in institution in NAAC preparation</p> <p>Resource person</p> <p>① Prin. Dr. Arun Ambhale</p> <p>② Dr. B. S. Patil</p> <p>③ Dr. Savita Patil.</p> <p>④ Ms. Sayati Gosavi,</p>	

Book referred

Other activities

  
Signature of the Lecturer

Karnatak  
22, 23, 24  
Karnatak

# DAILY RECORD

Date: 01/04/2022

DAY: Friday

Time	Class	Topic	Points covered	Remarks
10.55 to 11:40 am	M.Sc-II	Wilson's Th <sup>m</sup>	Wilson's Th <sup>m</sup> Let $p$ is prime then $(p-1)! \equiv (-1) \pmod{p}$ . Th <sup>m</sup> . Let $p$ is prime. Then $x^2 \equiv (-1) \pmod{p}$ has sol <sup>n</sup> iff $p=2$ or $p \equiv 1 \pmod{4}$ .	NO.
12:25 pm to 01:10 pm.	S.Y.B.Sc	Introduction	Introduction to Maths-I Linear Algebra	NO.
02:15 pm to 03:00 pm	T.Y.B.Sc	Examples	① show that $\mathbb{Z} \times \mathbb{Z}$ is comm. ring with unity $e=(1,1)$ . ② show that $\mathbb{Z} \times \mathbb{Z}$ is commutative ring ③ Let $R$ is ring then $a^2 - b^2 = (a+b)(a-b)$ iff $R$ is commutative ring	NO.

Book referred

J. B. Fraleigh, An introduction to theory of Numbers

Other activities

  
**Principal**  
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# DAILY RECORD

Date: 04/04/2022


DAY: Monday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25 pm	S.Y.B.Sc	Examples unit	① Compute $(12)(16)$ in $\mathbb{Z}_{24}$ $(16)(3)$ in $\mathbb{Z}_{32}$  ② The set $\{0, 2, 4\}$ under $+$ & multi. modulo 6 has a unity? Find it. * unit  ③ Set of pure imaginary complex numbers $yi$ for $y \in \mathbb{R}$ with the usual $+$ & $\cdot$ is not ring.	NO.
01:10 pm to 01:55 pm.	S.Y.B.Sc	Chap-1.	chap-1 Matrices & system of linear equations.  * linear equations * linear systems * consistent * Inconsistent * Examples.	NO

Book referred

J.B. Fraleigh, Hivali publication (S.Y.B.Sc)

Other activities

  
Signature of the Lecturer



# DAILY RECORD

Date: 05/04/2022

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:55am to 11:40pm	T.Y.B.Sc	Examples	Find all units of the following ring ① $\mathbb{Z}_5$ ② $\mathbb{Z}_4$ ③ $\mathbb{Z} \times \mathbb{Z}$ ④ $\mathbb{Z} \times \mathbb{Z}_4$ ⑤ $\mathbb{Z} \times \mathbb{Q} \times \mathbb{Z}$ * Find all unit of $\mathbb{Z}, \mathbb{Q}, \mathbb{R}$ & $\mathbb{C}$ .	No.
01:10 pm to 01:55 pm	M.Sc-II	Examples	① List all element $x$ in the range $1 \leq x \leq 100$ s.t. $x \equiv 7 \pmod{11}$ ② prove that $p$ is prime & $a^2 \equiv b^2 \pmod{p}$ then $p a+b$ or $p a-b$ . ③ prove that $n^{\phi(n)}$ is divisible by $n$ if $(n, a) = 1$ ④ prove that 19 is not a divisor of $4n^2 + 4$ for $n \in \mathbb{Z}$ .	No.

Book referred

J. B. Fraleigh. An introduction to theory of numbers

Other activities



Signature of the Lecturer

# DAILY RECORD

Date: 06 / 04 / 2022

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 pm to 01:10 pm	T.Y-BSc	Examples	① Determine units of $\mathbb{Z}[x]$ & $\mathbb{Z}[i]$ . ② show that a unit of a ring divides every element of the ring. Th <sup>m</sup> If $R$ is a ring with $+ id. 0$ then ① $a \cdot 0 = 0 = 0 \cdot a$ ② $a(-b) = (-a) \cdot b = -(a \cdot b)$ ③ $(-a)(-b) = ab$ ④ $a(b-c) = ab - a \cdot c$	NO.
01:10 pm to 01:55 pm	M.Sc-II	Examples	① show that, $6! + 1 \equiv 63! + 1 \equiv 0 \pmod{71}$ ② If $p \equiv 3 \pmod{4}$ then $\left(\frac{p-1}{2}\right)! \equiv \pm 1 \pmod{p}$ ③ If $p$ is odd then $1 \cdot 2 \cdot 3 \cdots (p-2) \equiv (-1)^{\frac{p+1}{2}} \pmod{p}$ $2 \cdot 4 \cdot 6 \cdots (p-1) \equiv (-1)^{\frac{p+1}{2}} \pmod{p}$	NO.

Book referred

J. B. Fraleigh, An introduction to theory of numbers

Other activities

  
 Signature of the Lecturer

07/04/2022 - Thursday

H.S.C Board Exam.

**DAILY RECORD**

Date: 08/04/2022


DAY: Friday

Time	Class	Topic	Points covered	Remarks
12:25 pm to 01:10 pm	S.Y. B.Sc	Examples	<p>① Row operations</p> <p>Ex</p> <p>① Find the Augmented matrix for the system <math>3x_1 - 2x_2 = -1</math>, <math>4x_1 + 5x_2 = 3</math> &amp; <math>7x_1 + 3x_2 = 2</math></p> <p>② Find the solution of the linear system.</p> <p>i. <math>2x + 3y - 5z = 2</math></p> <p>ii. <math>7x - 5y = 3</math></p> <p>iii. <math>-8x_1 - 2x_2 - 5x_3 + 6x_4 = 1</math></p>	NO.
02:15 pm to 03:40 pm	T.Y. B.Sc	N&S Condition	<p>Necessary and sufficient condition for subring</p> <p>Ex</p> <p>Let <math>R = M_2(\mathbb{R})</math></p> <p>① <math>M = \left\{ \begin{bmatrix} a &amp; 0 \\ b &amp; 0 \end{bmatrix} \in \mathbb{R} \mid a, b \in \mathbb{R} \right\}</math></p> <p>② <math>M = \left\{ \begin{bmatrix} a &amp; b \\ 0 &amp; c \end{bmatrix} \in \mathbb{R} \mid a, b, c \in \mathbb{R} \right\}</math></p> <p>show that M is subring of <math>\mathbb{R}</math>.</p>	NO.

Book referred

Nivali publication (S.Y. B.Sc), J.B. Fraleigh

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 09/10/2022

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
11:40 pm to 12:25 pm f 03:00 pm to 03:45 pm	S.Y. B.Sc	Gaussian elimination method	* Gaussian elimination method Solve the following linear system ①. $x+y+z=9$ , $2x-3y+4z=13$ $3x+4y+5z=40$ ② $x_1+2x_2+2x_3=1$ , $x_1+3x_2+x_3=4$ f $x_1+3x_2+2x_3=3$ ③ $x_1+x_2+2x_3=8$ , $-x_1-2x_2+3x_3=1$ $3x_1-7x_2+4x_3=10$ .	NO.
01:10 pm to 01:55 pm	M.Sc-II	sol <sup>n</sup> of congruence	* sol <sup>n</sup> of congruence * Identical congruence. Examples ① Find the sol <sup>n</sup> $x^2+1 \equiv 0 \pmod{5}$ ② Find the sol <sup>n</sup> $x^2-1 \equiv 0 \pmod{5}$ ③ Find the sol <sup>n</sup> $x^2+x+7 \equiv 0 \pmod{5}$ ④ Find the degree of $6x^2+3x+3 \equiv 0 \pmod{9}$ .	NO.

Book referred

Nizuli publication (S.Y. B.Sc) An introduction to theory of Numbers

Other activities

  
 Signature of the Lecturer

# DAILY RECORD

Date: 09/04/2022


DAY: Monday

Time	Class	Topic	Points covered	Remarks
11:40 pm to 12:25 pm	T.Y.B.Sc	Examples	① Let $S = \{a + b\sqrt{3} \mid a, b \in \mathbb{Z}\}$ then $S$ is a subring of $\mathbb{R}$ . ② Is $S = \{0, 1, 3, 5, 7\}$ is a subring of $\mathbb{Z}_8$ ? Justify ③ Let $R$ be a ring & $a$ be fixed element of $R$ , Let $I_a = \{x \in R \mid ax = 0\}$ then $I_a$ is a subring of $R$ . ④ Show that Intersection of two subrings is a subring.	No.
01:10 pm to 01:55 pm	S.Y.B.Sc	Examples	solve the following linear system ① $x_1 + x_2 + 2x_3 = 8$ $-x_1 - 2x_2 + 3x_3 = 1$ $3x_1 - 7x_2 + 4x_3 = 10$ ② $x - y + 2z - w = -1$ $2x + y - 2z - 2w = -2$ $-x + 2y - 4z + w = 1$	No.

Book referred

J.B. Fraleigh, Nivali publication (S.Y.B.Sc).

Other activities

  
 Signature of the Lecturer

# DAILY RECORD

Date: 12 / 04 / 2022

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:55 am to 11:40 pm	T.Y.B.Sc	Idempotent of nilpotent elements	* Idempotent elements. * Nilpotent elements. <del>the</del> Boolean Ring. Examples ① Find all nilpotents of idempotents elements of ring $\mathbb{Z}_4$ ② Find Idempotents of Nilpotents elements of ring $\mathbb{Z}_6$ . ③ Find all Idempotents in $\mathbb{Z}_6 \times \mathbb{Z}_{12}$ .	NO.
12:25 pm to 01:10 pm	M.Sc-II	$\mathbb{Z}_m^*$	$\mathbb{Z}_m^*$ : Let $d m, d>0$ if $u$ is $\text{sol}^n$ of $f(x) \equiv 0 \pmod{m}$ then $u$ is $\text{sol}^n$ of $f(x) \equiv 0 \pmod{d}$ . $\mathbb{Z}_m^*$ : Let $a, b, m > 0$ be given integers, as $(a, m) = g$ then congruence $ax \equiv b \pmod{m}$ has $\text{sol}^n$ iff $g b$ . If this condition met, then the $\text{sol}^n$ form an arithmetic progression with common difference $\frac{m}{g}$ , giving $g$ $\text{sol}^n \pmod{m}$ .	NO.

Book referred

T. B. Fraleigh, An introduction to theory of numbers.

Other activities

  
 Signature of the Lecturer

# DAILY RECORD

Date: 13/04/2022

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
10:55 AM to 11:40 AM	M.Sc-II	Examples	Solve the following ① $18x \equiv 30 \pmod{42}$ ② $9x \equiv 21 \pmod{30}$ ③ $20x \equiv 4 \pmod{30}$ ④ $57x \equiv 87 \pmod{105}$ ⑤ $15x \equiv 0 \pmod{35}$	NO.
12:25 PM to 01:10 PM	T.Y.B.Sc	Example	① Find all nilpotent elements in $\mathbb{Z}_2 \times \mathbb{Z}_4$ ② Let $R$ is rings. t $a^2 = a \forall a \in R$ then i. $a+a=0$ ii. If $a+b=0$ then $a=b$ . ③ Prove that every Boolean ring is commutative.	NO.
03:00 PM to 03:45 PM	S.T.B.Sc	Examples	Solve ① $x+y+z=9, 2x-3y+4z=13$ $3x+4y+5z=40$ ② $2x_1+x_2+x_3=0, x_1+3x_2=0$ $x_2+x_3=0$	NO.

Book referred

An introduction to theory of Numbers, J.B. Fraleigh  
 Nirali publication (S.T.B.Sc)

Other activities



Signature of the Lecturer

14/04/2022 = Holiday  
 15/04/2022 = Holiday

## DAILY RECORD

Date: 16/04/2022

DAY: Saturday.

Time	Class	Topic	Points covered	Remarks
12:45 pm to 02:25 pm	SXB-X	vector space	Chap-2 Vector space Def <sup>n</sup> of vector space foreg ① $V = \mathbb{R}$ is real vector space ② $V = \mathbb{Q}$ over $\mathbb{R}$ is not a vector space ③ $V = \mathbb{C}$ is a real vector space.	NO
12:25 pm to 01:10 pm f 01:10 pm to 01:55 pm	M.Sc-II	The chinese remainder th <sup>m</sup>	Th <sup>m</sup> . The chinese remainder th <sup>m</sup> Ex <sup>o</sup> Find the +ve integer $x$ s.t $x \equiv 5 \pmod{7}$ , $x \equiv 7 \pmod{11}$ f $x \equiv 3 \pmod{13}$ ② Find least +ve integer $x$ s.t $x \equiv 1 \pmod{3}$ , $x \equiv 2 \pmod{4}$ f $x \equiv 3 \pmod{5}$ .	NO.

Book referred

Nisali publication (S.Y.B.Sc) An introduction to theory of numbers

Other activities



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# DAILY RECORD

Date: 18 / 04 / 2022

DAY: Monday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25 pm. f 12:25 pm to 01:10 pm	T.Y.B.Sc	Divisor of zero.	<p>* Divisor of zero.</p> <p><math>Th^m</math> In the ring <math>Z_n</math> the divisor of zero are precisely those elements that are not relatively prime to <math>n</math>.</p> <p><math>Th^m</math>. If <math>p</math> is prime then <math>Z_p</math> has no divisor of zero.</p> <p>Ex. ① Find all zero divisors of <math>Z_8, Z_{12}, Z_{20}, Z_2 \times Z_4, Z_6, Z_{12}</math></p>	NO.
01:10 pm to 01:55 pm f 03:00 pm to 03:45 pm	S.Y.B.Sc	Examples	<p>① show that <math>V = \mathbb{R}^2</math> be a real vector space</p> <p>②. set of all polynomial with degree less than or equal to <math>n</math> is a real vector space</p> <p>③ Let <math>V = \{x \in \mathbb{R} \mid x &gt; 0\} = \mathbb{R}^+</math> If <math>x, y \in V, \alpha \in \mathbb{R}</math>. define <math>x + y = x \cdot y</math> &amp; <math>\alpha \cdot x = x^\alpha</math> show that <math>V</math> is real vector space</p>	NO.

Book referred

J. B. Fraleigh, Nivali publication (S.Y.B.Sc)

Other activities



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# DAILY RECORD

Date: 19/04/2022


DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:55 am to 11:40 pm	T.Y.B.Sc	Integral domain	* Integral domain * Division Ring * Field Ex: ① The ring $\mathbb{Z}_p, \mathbb{Z}, \mathbb{Q}, \mathbb{R}, \mathbb{C}$ are integral domain ② The ring $\mathbb{Q}, \mathbb{R}, \mathbb{C}$ are field ③ show that $\mathbb{Z}[\sqrt{2}]$ is Integral domain but not field.	No.
12:25 pm to 01:10 pm	M.Sc-II	Examples	solve the following system ① $x \equiv 3 \pmod{17}, x \equiv 4 \pmod{9}$ $x \equiv 7 \pmod{23}$ ② $x \equiv 5 \pmod{6}, x \equiv 4 \pmod{11}$ $x \equiv 3 \pmod{17}$ ③ $x \equiv 1 \pmod{4}, x \equiv 0 \pmod{3}$ $x \equiv 5 \pmod{7}$ . ④ Find all <del>sof</del> integers such that they give remainder 1, 2, 3 when divided by 3, 4, 5 resp.	NO.

Book referred

T. B. Fraleigh, An introduction to theory of numbers

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 20 / 04 / 2022

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
10:55 am to 11:40 am	M.Sc-II	Examples	① Find the integers giving remainder 1, 2, 3, 4, 5 when divided by 3, 5, 7, 9 & 11. ② show that there is no $x$ such that both $x \equiv 29 \pmod{52}$ & $x \equiv 19 \pmod{72}$ has sol <sup>n</sup> .	NO.
11:40 am to 12:25 pm	T.Y.Bsc	Examples	① show that $\mathbb{Q}[\sqrt{2}]$ is integral domain of field. ② show that $\mathbb{Z}[i]$ is integral domain but not field. ③ $\forall$ field is integral domain.	NO.
03:00 pm to 03:45 pm	S.Y.Bsc	Examples	① $V = \{0\}$ is a real vector space ② Let $V = \mathbb{R}^3$ define $+$ & $\cdot$ as. $(x, y, z) + (x', y', z') = (x+x', y+y', z+z')$ $K(x, y, z) = (Kx, y, z)$ . Is $V$ is real vector space? Justify.	NO.


Book referred

An Introduction to Number Theory, J. B. Fraleigh

Other activities

Nivali publication (S.Y.Bsc)

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# DAILY RECORD

Date: 21 / 04 / 2022

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25 pm	M.Sc-II	Example	① Determine whether the system $x \equiv 3 \pmod{10}$ , $x \equiv 8 \pmod{15}$ $x \equiv 5 \pmod{84}$ has a sol <sup>n</sup> & find them all. if any exist ② prove that $\phi$ is multiplicative function	NO.
01:20 pm to 01:55 pm	T.Y.BSc	Example	Th <sup>m</sup> prove that every finite integral domain is field. Th <sup>m</sup> If $p$ is prime then $\mathbb{Z}_p$ is field Ex show that $\begin{bmatrix} 1 & 2 \\ 2 & 4 \end{bmatrix}$ is divisors of zero	NO
03:45 pm to 04:30 pm	S.Y.B.Sc	Example	Let $V = \mathbb{R}^3$ , for $u = (x, y, z)$ , $v = (x', y', z')$ & $k \in \mathbb{R}$ we define $+$ & $\cdot$ as. $u+v = (x+x', y+y', z+z')$ $k \cdot u = (0, 0, 0)$ .	NO.

Book referred

An introduction to theory of Numbers, J.B. Fraleigh.

Other activities

Nivali Publication (S.Y.B.Sc).

  
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# DAILY RECORD

Date: 22/04/2022

DAY: Friday.

Time	Class	Topic	Points covered	Remarks
10:55 am to 11:40 am	M.Sc-I	Examples	<p><u>Th<sup>m</sup></u> ① If <math>p</math> is prime &amp; <math>k &gt; 0</math> then <math>\phi(p^k) = p^k - p^{k-1}</math>.</p> <p>② If <math>n &gt; 1</math> then <math>\phi(n) = n \prod_{p n} (1 - \frac{1}{p})</math>.</p> <p>Ex: ① Find <math>\phi(3600)</math> ② Find <math>\phi(2545)</math> ③ Find the numbers which are less than &amp; relatively prime to 7200.</p>	NO
12:25 pm to 01:10 pm & 03:00 pm to 03:45 pm	S.Y.B.Sc	Examples	<p>① Let <math>V = \{ \begin{bmatrix} a \\ 1 \\ b \end{bmatrix} \mid a, b \in \mathbb{R} \}</math>. Is <math>V</math> is real vector space.</p> <p>② Let <math>V = \mathbb{R}^2</math> &amp; define <math>+</math> &amp; <math>\cdot</math> as, <math>(x_1, y_1) + (x_2, y_2) = (x_1 + 2x_2, y_1 + y_2 + 1)</math> <math>\alpha(x, y) = (\alpha x, \alpha y)</math> Is <math>V</math> is real vector space? Justify.</p>	NO.
01:10 pm to 01:55 pm	T.Y.B.Sc	characteristic of ring	<p>characteristic of ring Find the characteristic of the following</p> <p>① <math>\mathbb{Z}</math>, ② <math>\mathbb{Z}_2</math> ③ <math>\mathbb{Z}_2 \times \mathbb{Z}_4</math> ④ <math>\mathbb{Z}_3 \times \mathbb{Z}_2</math> ⑤ <math>\mathbb{Z}_5 + \mathbb{Z}_6</math> ⑥ <math>\mathbb{Z} \times \mathbb{Z}</math>.</p>	NO.

Book referred

An introduction to theory of Numbers, Nitaji Publication (S.Y.B.Sc)

Other activities

J. B. Fraleigh.

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# DAILY RECORD

Date: 23/04/2022

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25 pm	M.Sc-II	Chap-3	Quadratic Reciprocity Quadratic Residue Legendre symbol Th <sup>m</sup> . If $p$ is any odd prime & $(a, p) = 1$ then $\left(\frac{a}{p}\right) \equiv a^{\frac{p-1}{2}} \pmod{p}.$	NO.
01:10 pm to 01:55 pm	T.Y.B.Sc	Examples	① Let $a, b$ are the <del>id</del> element of comm ring of $\text{ch}(\mathbb{R}) = \mathbb{R}$ then $(a+b)^2 = (a-b)^2 = a^2 + b^2$ ② $a, b \in \mathbb{R}$ with $\text{ch}(\mathbb{R}) = 4$ then find $(a+b)^4$ .	NO.
03:00 pm to 06:45 pm	S.Y.B.Sc	Subspace	Subspace Necessary and sufficient condition Ex: ① $W = \{(x, y, z) \mid x = 4y + 2z\}$ is a subspace of $\mathbb{R}^3$ .	NO.

Book referred

An introduction to theory of numbers. J.B. Fraleigh

Other activities

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# DAILY RECORD

Date: 25/04/2022

DAY: Monday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25	T.Y.B.Sc	Euler's Th <sup>m</sup> Fermat's Th <sup>m</sup> Wilson Th <sup>m</sup>	<p>Ex ① Find the remainder of <math>8^{103}</math> when divided by 13.</p> <p>② Find the remainder of <math>2^{11213}</math> when divided by 11.</p> <p>③ Find the remainder when of <math>3^{47}</math> when divided by 23.</p>	NO.
01:10 pm to 01:55 pm f 03:00 pm to 05:45 pm	S.Y.B.Sc	Examples Linear combinations	<p>① Let <math>V = \mathbb{R}^3</math> &amp; <math>W = \{(x, y, z) \mid x+y+z=0\}</math> show that <math>W</math> is subspace of <math>V</math></p> <p>② Let <math>V = \mathbb{R}^3</math> &amp; <math>W = \{(x, y, z) \mid x+y+z=1\}</math>. Is <math>W</math> is subspace of <math>V</math></p> <p>③ <math>V = M_2(\mathbb{R})</math> &amp; <math>W = \{A \in V \mid A^t = -A\}</math> show that <math>W</math> is subspace of <math>V</math></p> <p>④ Let <math>W_1, W_2</math> are two subspaces of <math>V</math>. Then prove that <math>W_1 \cap W_2</math> is a subspace of <math>V</math>. Is <math>W_1 \cup W_2</math> is subspace of <math>V</math>? Justify.</p>	NO.

Book referred

J. B. Fraleigh, Narali publication (S.Y.B.Sc)

Other activities

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# DAILY RECORD

Date: 28/04/2012


DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:55 am to 11:40 am	T.Y.B.Sc	Examples	Application to $ax \equiv b \pmod{m}$ Find all sol <sup>n</sup> ① $15x \equiv 27 \pmod{18}$ ② $2x \equiv 6 \pmod{4}$ ③ $45x \equiv 15 \pmod{24}$ ④ $36x \equiv 15 \pmod{24}$ ⑤ Compute $\phi(p^2)$ ⑥ Compute $\phi(pq)$ where $p, q$ are distinct odd primes.	NO.
12:25 pm to 01:10 pm	M.Sc-II	Examples	Find ① $\left(\frac{3}{5}\right)$ ② $\left(\frac{60}{13}\right)$ ③ $\left(\frac{-38}{13}\right)$ ④ $\left(\frac{-7}{23}\right)$ ⑤ $\left(\frac{12}{5}\right)$ ⑥ $\left(\frac{-7}{19}\right)$ .	NO.

Book referred

J.B. Fraleigh, An introduction to theory of numbers

Other activities

  
Signature of the Lecturer



# DAILY RECORD

Date: 27 / 04 / 2022

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
10:55am to 11:40pm	M.Sc-II	Gauss lemma	Gauss lemma <del>PSE</del> Use Gauss lemma to find ① $(\frac{5}{13})$ ② $(\frac{8}{11})$ ③ $(\frac{7}{13})$ ④ $(\frac{5}{19})$ ⑤ $(\frac{11}{23})$ .	NO
12:25 pm to 01:10 pm	T.Y.B.Sc	field of quotients	Field of quotients Find the field of quotients of the following integral domain ① $D = \mathbb{Z}$ ② $D = \mathbb{Q}$ ③ $D = \mathbb{R}$ ④ $D = \mathbb{C}$ ⑤ $D = \mathbb{Z}[\sqrt{2}]$ ⑥ $D = \mathbb{Q}[\sqrt{2}]$ ⑦ $D = \mathbb{Z}[i]$	NO
03:10 pm to 03:45 pm.	S.Y.B.Sc	linear combinations	linear combination of Linear span Ex. ① Is a vector $(1, 2, 3)$ is a linear combination of vectors $v_1 = (1, 0, 0)$ , $v_2 = (0, 1, 0)$ , $v_3 = (0, 0, 1)$ .	NO

Book referred

An introduction to theory of numbers, J. B. Fraleigh, Hivali publication (S.Y.B.Sc)

Other activities

  
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# DAILY RECORD

Date: 28 / 04 / 2022

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:55am to 11:40pm	M.Sc-II	Examples	<p><u>Th<sup>m</sup></u> If <math>p</math> is an odd prime &amp; <math>(a, 2p) = 1</math> then</p> $\left(\frac{a}{p}\right) = (-1)^n \text{ where } n = \sum_{j=1}^{\frac{p-1}{2}} \left[\frac{ja}{p}\right]$ <p>Also <math>\left(\frac{2}{p}\right) = (-1)^{\frac{p-1}{8}}</math></p>	NO
02:20pm to 01:55pm	T.Y.B.Sc	Examples	<p>Ring of polynomials</p> <p>Ex. find the sum of products of the following</p> <p>① <math>f(x) = x^2 + 2x + 1, g(x) = 5x^4 + 2x^2 + 9x + 1</math> in <math>\mathbb{Z}_{10}[x]</math></p> <p>② <math>f(x) = 3x^3 + 9x + 1, g(x) = 5x^3 + 4x^2 + 5x - 1</math> in <math>\mathbb{Z}_3[x]</math></p>	NO
03:45pm to 04:30pm	S.Y.B.Sc	Examples	<p>① Determine whether the vectors <math>v_1 = (2, 1, 0), v_2 = (0, 3, -4), v_3 = (1, -1, 2)</math> span <math>\mathbb{R}^3</math></p> <p>② Determine whether the given sets span <math>\mathbb{R}^3</math></p> <p><math>S = \{(2, 2, 2), (0, 0, 3), (0, 1, 1)\}</math></p>	NO.

Book referred  
An introduction to theory of Numbers, J.B. Fraleigh.  
 Other activities Nivali publication (S.Y.B.Sc)

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# DAILY RECORD

Date: 28 / 04 / 2022

DAY: Thursday


Time	Class	Topic	Points covered	Remarks
10:55am to 11:40pm	M.Sc-II	Examples	<p><u>Th<sup>m</sup></u> If <math>p</math> is an odd prime &amp;  <math>(a, 2p) = 1</math> then  <math>\left(\frac{a}{p}\right) = (-1)^n</math> where <math>n = \sum_{j=1}^{\frac{p-1}{2}} \left[\frac{ja}{p}\right]</math>                      Also <math>\left(\frac{2}{p}\right) = (-1)^{\frac{p-1}{8}}</math></p>	NO
07:20pm to 01:45pm	T.Y.B.Sc	Examples	<p>Ring of polynomials  <u>Ex.</u> find the sum &amp; products of                      the following                      ① <math>f(x) = x^2 + 2x + 1</math>, <math>g(x) = 5x^4 + 2x^2 + 9x + 1</math>                      in <math>\mathbb{Z}_{10}[x]</math>                      ② <math>f(x) = 3x^3 + 9x + 1</math>, <math>g(x) = 6x^3 + 4x^2 + 5x - 1</math>                      in <math>\mathbb{Z}_3[x]</math></p>	NO
03:45pm to 04:30pm	G.Y.B.Sc	Examples	<p>① Determine whether the vectors,  <math>v_1 = (2, 1, 0)</math>, <math>v_2 = (0, 3, -4)</math>  <math>v_3 = (1, -1, 2)</math> span <math>\mathbb{R}^3</math>                      ② Determine whether the given                      sets span <math>\mathbb{R}^3</math>.  <math>S = \{(2, 2, 2), (0, 0, 3), (0, 1, 1)\}</math></p>	NO.

Book referred

An introduction to theory of Numbers, J.B. Fraleigh.

Other activities

Nivali publication (S.Y.B.Sc)

  
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# DAILY RECORD

Date: 29 / 04 / 2022

DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:40 am to 12:25 pm.	T.Y.B.Sc	Ring of Poly.	* Ring of polynomials. Find the product & sum of the following ① $f(x) = x^2 + 2x + 1, g(x) = 5x^4 + 2x^2 + 9x + 1$ in $\mathbb{Z}_{10}[x]$ . ② $f(x) = 3x^3 + 9x + 1, g(x) = 6x^3 + 4x^2 + 5x - 1$ in $\mathbb{Z}_3[x]$ . ③ $f(x) = x^3 - 4x + 1, g(x) = 10x^4 - 5x - 3$ in $\mathbb{Z}_{10}[x]$ .	No.
12:25 pm to 01:10 pm	S.Y.B.Sc	Linear dep & Indep set	Linearly Independent & dep set ① Is the set $S = \{(1, 0, 0), (0, 1, 0), (0, 0, 1)\}$ is linearly dep. set? Justify. ② Is the set $S = \{(2, -1, 4), (3, 6, 2), (2, 10, -4)\}$ is linearly dep set in $\mathbb{R}^3$ ? Justify	No
03:00 pm to 03:45 pm of 03:45 pm to 04:30 pm.	M.Sc-II	Examples	① Let $\left(\frac{2}{p}\right) = 1$ iff $p \equiv \pm 1 \pmod{8}$ ② Find $\left(\frac{2}{59}\right), \left(\frac{2}{17}\right), \left(\frac{2}{61}\right)$ . ③ Is $x^2 \equiv -2 \pmod{59}$ has soln?	No.

Book referred

J.B. Fraleigh, Nivali publication (S.Y.B.Sc) An introduction to the theory of Numbers.

Other activities

  
 Signature of the Lecturer

# DAILY RECORD

Date: 30 / 04 / 2012

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
01:10 pm to 01:55 pm	M.Sc-II	Quadratic Reciprocity law.	<p><del>Quadratic</del> Reciprocity law. Gaussian If <math>p</math> &amp; <math>q</math> are distinct odd primes then <math>\left(\frac{p-1}{2}\right)\left(\frac{q-1}{2}\right)</math>. <math>\left(\frac{p}{q}\right)\left(\frac{q}{p}\right) = (-1)^{\dots}</math></p> <p>Examples                      ① Find <math>\left(\frac{-42}{61}\right)</math>                      ② Find <math>\left(\frac{10}{89}\right)</math></p>	NO
03:00 pm to 03:45 pm	S.Y.B.Sc	Examples	<p>① show that <math>S = \{(1, 2, 0), (0, 3, 1), (-1, 0, 1)\}</math> is L.I. set</p> <p>② show that <math>S = \{(1, 3, 2), (1, -7, 8), (2, 1, -1)\}</math> is L.D. set.</p> <p>③ Is <math>1-x, 5+3x-2x^2, 1+3x-x^2</math> is L.I. in <math>P_2</math></p> <p>④ Is <math>A = \begin{bmatrix} 4 &amp; 0 \\ -2 &amp; -2 \end{bmatrix}</math>, <math>B = \begin{bmatrix} -4 &amp; 0 \\ 2 &amp; 2 \end{bmatrix}</math> in <math>M_{2 \times 2}</math>.</p>	NO.

Book referred

An introduction to theory of numbers, Nishitani publication  
(S.Y.B.Sc)

Other activities



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Head meeting  
10:30<sup>am</sup> to 12:30 pm.

## DAILY RECORD

Date: 02/05/2022

DAY: Monday.


Time	Class	Topic	Points covered	Remarks
01:10 pm to 01:55 pm	S.Y.B.Sc	Example	<p>① If <math>f_1 = 1, f_2 = e^x, f_3 = e^{2x}</math> is linearly dep. functions.</p> <p>② If <math>f_1 = e^x, f_2 = \sin x, f_3 = \cos x</math> is linearly dep. functions.</p> <p><u>Th<sup>m</sup></u> A subset <math>S</math> in a vector space <math>V</math> containing two or more vectors is linearly dep. iff atleast one vector is expressible as the linear combination of remaining</p>	NO
03:00 pm to 03:45 pm	T.Y.B.Sc	Examples	<p>① How many polynomials are there of <math>\deg \leq 3</math> in <math>\mathbb{Z}_2[x]</math>.</p> <p>② <u>Th<sup>m</sup></u>: Let <math>D</math> is integral domain iff <math>D[x]</math> is integral domain</p> <p>③ Evaluation homomorphism</p> <p>④ Find <math>\phi_2(x^2+3)</math> to ① <math>\phi_1(2x^3 - x^2 + 3x + 2)</math>.</p>	NO

Book referred

Nixali publication (S.Y.B.Sc), J.B. Fraleigh

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## DAILY RECORD

Date: 04/05/2022


DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
12:25 pm to 01:10 pm of 01:10 pm to 01:55 pm	T.Y. B.Sc	Division Algorithm	<p>Division Algorithm Factor th<sup>m</sup></p> <p>Ex Find <math>q(x)</math> &amp; <math>r(x)</math> by the division Algorithm so that <math>f = g \cdot q + r</math>.</p> <p>① <math>f(x) = x^6 + 3x^5 + 4x^2 - 3x + 2</math>  <math>g(x) = x^2 + 2x - 3</math> in <math>\mathbb{Z}_7[x]</math>.</p> <p>② <math>f(x) = x^6 + 5x^4 - 3x^2 + 7x + 1</math>  <math>g(x) = 3x^2 + 4x - 2</math> in <math>\mathbb{Z}_7[x]</math></p> <p>③ <math>f(x) = x^5 - 2x^4 + 3x - 5</math>  <math>g(x) = 2x + 1</math> in <math>\mathbb{Z}_{11}[x]</math>.</p>	NO.
03:00 pm to 03:45 pm	S.Y. B.Sc	Basis.	<p>Basis.</p> <p>① show that <math>B = \{(1,0), (0,1)\}</math> is a basis of <math>\mathbb{R}^2</math>.</p> <p>② show that the vectors <math>v_1 = (3,1,4)</math>, <math>v_2 = (2,5,6)</math>, <math>v_3 = (1,4,8)</math> form a basis for <math>\mathbb{R}^3</math>.</p> <p>③ show that the set <math>S = \{(1,1,2), (1,2,5), (5,3,4)\}</math> do not form basis for <math>\mathbb{R}^3</math>.</p>	NO.

Book referred

J.B. Fraleigh, S.Y. B.Sc Nirali Publication.

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 05/05/2022

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
12:25 pm to 01:10 pm of 01:10 pm to 01:55 pm	T.Y.B.Sc	Examples irreducible poly.	① show that $x^2 - 2$ is irreducible over $\mathbb{Q}$ . ② show that $x^3 + 3x + 2$ is irreducible over $\mathbb{Z}_5$ ③ Is $f(x) = x^3 + 2x + 3$ is irreducible in $\mathbb{Z}_5[x]$ . ④ Is $x^2 + 8x - 2$ is irreducible over $\mathbb{Q}$ . ⑤ show that $x^3 + 3x^2 - 8$ is irreducible over $\mathbb{Q}$ .	NO
02:15 pm to 03:00 pm of 03:00 pm to 03:30 pm	M.Sc-II	Jacobi's symbol.	Jacobi's symbol. ① Find $\left(\frac{27}{35}\right)$ ② $\left(\frac{24}{35}\right)$ ③ $\left(\frac{2}{15}\right)$ ④ $\left(\frac{-23}{83}\right)$ ⑤ $\left(\frac{51}{71}\right)$ .	NO
03:45 pm to 04:30 pm	S.Y.B.Sc	Co-ordinate vector.	Co-ordinate vector ① Find the co-ordinate vector of $v = (4, 5)$ relative to the basis $S = \{(2, 1), (-1, 1)\}$ .	NO

Book referred

J.B. Fraleigh, An introduction to theory of numbers,  
S.Y.B.Sc. Nitai publication.

Other activities



Signature of the Lecturer



# DAILY RECORD

Date: 06 / 05 / 2022

DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:55am to 11:40am f 11:40am to 12:25pm	T.Y.B.Sc	Eisenstein criterion	Eisenstein criterion Ex determine which of the following poly. in $\mathbb{Z}[x]$ are irreducible over $\mathbb{Q}$ . ① $f(x) = x^2 - 2$ ② $f(x) = 25x^5 - 9x^4 + 3x^2 - 12$ ③ $f(x) = x^2 - 12$ ④ $f(x) = 2x^{10} - 25x^3 + 10x^2 - 30$ ⑤ $f(x) = x^2 - 5x + 6$	NO
12:25pm to 01:10pm	S.Y.B.Sc	Unit-II vector space-II	* Dimension of vector space ① Determine the set $S = \{ (3, 0, -6), (-4, 7), (-2, 1, 5) \}$ is basis of $\mathbb{R}^3$ ② $S = \{ (1, 0, 0), (2, 3, 0) \}$ in $\mathbb{R}^3$	NO
02:15pm to 03:00pm f 03:00pm to 03:45pm	M.Sc-II	Unit-III Greatest integer function	Unit-III Greatest integer function De-Palignac formula. ① Find the highest power of 7 that divides $1000!$	NO

Book referred

T.B. Frueleigh, S.Y.B.Sc Nirali publication, An introduction to  
theory of Numbers.

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date : 07 / 05 / 2022

DAY : Saturday

Time	Class	Topic	Points covered	Remarks
10:55 AM to 11:40 PM	T.Y.B.Sc	uniqueness of factorization	uniqueness of factorization in $F[x]$ . EA ① show that $x^6 + x^5 + x^4 + x^3 + x^2 + x + 1$ is irreducible over $\mathbb{Q}$ . ② prove that $x^n - p$ is irreducible over $\mathbb{Q}$ . ③ find all irreducible polynomials of the degree 2 in $\mathbb{Z}_2[x]$ .	NO
01:10 PM to 01:55 PM	M.Sc-II	Examples	① Find the highest power of 2 that divides $533!$ . ② Find the highest power of 3 that divides $533!$ . ③ Find the highest power of 10 that divides $50!$ .	NO
03:10 PM to 03:45 PM	S.Y.B.Sc	Maxima practical	Maxima practical - I	NO.

Book referred

J.B. Fraleigh, An introduction to theory of Number,  
S.Y.B.Sc Niteli Publication

Other activities



Signature of the Lecturer

# DAILY RECORD

Date: 09/05/2022


DAY: Monday

Time	Class	Topic	Points covered	Remarks
11:40 AM to 12:25 PM	J.Y.B.Sc	$\mathbb{R}^n$	<p><u>Th<sup>m</sup></u>                      If <math>F</math> is a field, then every non constant polynomial <math>f(x) \in F[x]</math>, can be factored in <math>F[x]</math> into a product of irreducible polynomials, the irreducible polynomials, being unique except for order &amp; for unit factor in <math>F</math>.</p>	NO.
01:10 PM to 01:55 PM	S.Y.B.Sc	Examples	<p>① Show that, <math>S = \{1+x^2, x+x^2, x^2\}</math> is basis for <math>P_2</math></p> <p>② Is the set <math>S = \{1-3x+2x^2, 1+x+4x^2, 1-7x\}</math> is a basis for <math>P_2</math></p> <p>③ Determine basis and dimension of subspace  <math>S = \{(x, y, z) \mid 3x - 2y + 5z = 0\}</math></p>	NO.

Book referred

J.B. Fraleigh, S.Y.B.Sc Nivali publication

Other activities

  
 Signature of the Lecturer

# DAILY RECORD

Date: 10 / 05 / 2012

DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
10:30 am to 10:55 am f 10:55 am to 11:40 pm	T.Y. B.Sc	Chap-3 Ideal & Factor rings	<p>Chap-3 Ideal &amp; Factor Rings Homomorphism</p> <p>① <math>\phi: \mathbb{Z} \rightarrow \mathbb{Z}_2</math> be defined by</p> <p>i. <math>\phi(a) = 1 \cdot a \quad \forall a \in \mathbb{Z}</math></p> <p>ii. <math>\phi(a) = 0 \cdot a \quad \forall a \in \mathbb{Z}</math>.</p> <p>be homomorphism</p> <p>② Is <math>\phi: \mathbb{Z}_4 \rightarrow \mathbb{Z}_2</math> be defined by <math>\phi(a) = 1 \cdot a \quad \forall a \in \mathbb{Z}_4</math> is homomorphism</p> <p>③ <del>is</del> Kernel of Homomorphism.</p> <p>* Isomorphism.</p> <p>* Kernel of homomorphism.</p>	Nu.

Book referred

J. B. Fraleigh

Other activities



Signature of the Lecturer

# DAILY RECORD

Date: 11 / 05 / 2022

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
10:30 am to 10:55 am f 10:55 am to 11:40 am	T.Y.B.Sc	Isomorphism Th <sup>m</sup>	<p>Th<sup>m</sup> If <math>\phi: R \rightarrow R'</math> is ring homo.  <math>\phi</math> is one-to-one iff  <math>\text{kernel}(\phi) = \{0\}</math>.</p> <p>* first isomorphism Th<sup>m</sup>  <u>Ex</u> show that  <math>\mathbb{Z}/n\mathbb{Z} \cong \mathbb{Z}_n</math>.</p>	No.
03:00 pm to 03:45 pm	S.Y.B.Sc	Examples	<p>Row-space of A                      Column space of A                      Rank of A                      Nullity of A</p> <p>Example                      Let <math>A = \begin{bmatrix} 1 &amp; 4 &amp; 5 &amp; 2 \\ 2 &amp; 1 &amp; 3 &amp; 0 \\ -1 &amp; 3 &amp; 2 &amp; 2 \end{bmatrix}</math></p> <p>Find</p> <ol style="list-style-type: none"> <li>① row-rank</li> <li>② column-rank</li> <li>③ rank</li> <li>④ Nullspace</li> <li>⑤ nullity.</li> </ol>	No.

Book referred

J.B. Fraleigh, S.Y.B.Sc. Nivali publication.

Other activities

  
 Signature of the Lecturer

# DAILY RECORD

Date: 12/05/2022

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
10:30 am to 10:55 pm f 10:55 pm to 11:40 pm.	T.Y.B.Sc	Examples	① show that $\mathbb{Z}/4$ & $\mathbb{Z}/8$ are not isomorphic. ② show that the ring $\mathbb{R}$ & $\mathbb{C}$ are not isomorphic. ③ show that the ring $\mathbb{Q}$ & $\mathbb{R}$ are not isomorphic. ④ Let $\phi: \mathbb{Z} \rightarrow \mathbb{Z}$ defined by $\phi(n) = 1 \cdot n \forall n \in \mathbb{Z}$ . Find $\text{ker}(\phi)$ . ⑤ How many ring homo. from i. $\mathbb{Z}/4 \rightarrow \mathbb{Z}/8$ ii. $\mathbb{Z}/4 \rightarrow \mathbb{Z}/12$ .	NO
03:45 pm to 04:30 pm	S.Y.B.Sc	Examples	① Let $A = \begin{bmatrix} 1 & -1 & 3 \\ 5 & -4 & -4 \\ 7 & -6 & 2 \end{bmatrix}$ Find ① $\text{rank}(A)$ ② $\text{Nullspace}(A)$ & $\text{nullity}(A)$ ③ verify dimension th <sup>m</sup> for $A = \begin{bmatrix} 1 & 2 & -1 & 1 \\ 2 & 4 & -2 & 2 \\ 3 & 6 & -3 & 3 \\ 4 & 8 & -4 & 4 \end{bmatrix}$	NO

Book referred

J. B. Fraleigh, S.Y.B.Sc Nivali publication.

Other activities



Signature of the Lecturer

# DAILY RECORD

Date: 13 / 05 / 2022


DAY: Friday

Time	Class	Topic	Points covered	Remarks
10:30 am to 10:55 am f 10:55 am to 11:40 am	T.Y.B.Sc	Examples	<p>① Let <math>R = \{a + b\sqrt{2} \mid a, b \in \mathbb{Z}\}</math>                      f <math>R'</math> consist of all <math>2 \times 2</math> Matrices                      of the form <math>\begin{bmatrix} a &amp; 2b \\ b &amp; a \end{bmatrix}</math> for <math>a, b \in \mathbb{Z}</math>                      show that <math>R</math> is a subring of  <math>\mathbb{R}</math> f that <math>R'</math> is a subring                      of <math>M_2(\mathbb{Z})</math>. Then show that  <math>\phi: R \rightarrow R'</math> where  <math>\phi(a + b\sqrt{2}) = \begin{bmatrix} a &amp; 2b \\ b &amp; a \end{bmatrix}</math> is an                      isomorphism.</p>	NO
12:25 pm to 01:10 pm f 01:10 pm to 01:55 pm	S.Y.B.Sc	Unit-4 Linear Trans.	<p>Unit-4                      Linear Transformation.                      Determine the transformation                      is linear.  <math>T: \mathbb{R}^2 \rightarrow \mathbb{R}^2</math> be defined by                      ① <math>T(x, y) = (0, x + y)</math>                      ② <math>T(x, y) = (x, 2x + y)</math>                      ③ <math>T(x, y) = (x + y + 1, y)</math></p>	NO.

Book referred

J. B. Fraleigh, S.Y.B.Sc Nitai publication.

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 14 / 05 / 2022

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
10:30 am to 10:55 am & 10:55 am to 11:40 am	<del>Examples</del> T.Y.B.X	Examples Ideal	* Ideals ① show that $n\mathbb{Z}$ is an ideal in the ring $\mathbb{Z}$ . ② show that $\mathbb{Z}$ is not ideal in $\mathbb{Q}$ . ③ show that $\mathbb{Q}$ is not ideal in $\mathbb{R}$ . ④ show that $\mathbb{R}$ is not ideal in $\mathbb{C}$ . ⑤ Let $R$ be a commutative ring $a \in R$ . show that $I_a = \{x \in R \mid ax = 0\}$ is an ideal in $R$ .	NO.

Book referred

J.B. Fraleigh

Other activities

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17/05/2022 to 21/05/2022

IAE

# DAILY RECORD

Date: / / 201

DAY: \_\_\_\_\_

Time	Class	Topic	Points covered	Remarks
			17/05/2022 to 21/05/2022 IAE - Term - II	

Book referred

Other activities



Signature of the Lecturer

# DAILY RECORD

Date: 19/05/2022

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
03:15 to 04:30	T.Y.B.Sc	Examples	<p>Factor ring</p> <p>Ex:</p> <p>① Find all ideals <math>N</math> of <math>\mathbb{Z}_2</math>. Also compute <math>\mathbb{Z}_2/N</math>.</p> <p>② Is <math>\mathbb{Z}_2/\mathbb{Z}_2</math> &amp; <math>\mathbb{Z}_4</math> are isomorphic</p> <p>③ show that <math>\mathbb{Z}_2/\mathbb{Z}_2</math> &amp; <math>\mathbb{Z}_3</math> are not isomorphic rings.</p> <p>④ show that <math>\mathbb{Z}_2/\mathbb{Z}_2 \not\cong \mathbb{Z}_2</math></p> <p>⑤ If the ring <math>R</math> has unity 1 then the factor ring <math>R/N</math> has unity <math>1+N</math>.</p>	No.

Book referred

J. B. Fraleigh

Other activities

  
Principal  
S.S.G.M. College  
Kopergaon

  
Signature of the Lecturer

# DAILY RECORD

Date: 21 / 05 / 2022

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
02:15 pm to 03:00 pm	S.Y.B.Sc	Identity Trans.	Identity Transformation Ex let $A = \begin{bmatrix} -1 & 2 & 1 & 3 & 4 \\ 0 & 0 & 2 & -1 & 0 \end{bmatrix} \in \mathbb{R}^5 \times \mathbb{R}^5$ let $T: \mathbb{R}^5 \rightarrow \mathbb{R}^5$ be a linear trans. s.t $T(x) = Ax$ compute $T(1, 0, -1, 3, 0)$ . Th <sup>m</sup> If $T: V \rightarrow W$ be a linear trans. i. $T(0) = 0$ . ii. $T(-u) = -T(u)$ for $u \in V$ . iii. $T(u-v) = T(u) - T(v)$ for $u, v \in V$ .	NO
03:00 pm to 04:00 pm	T.Y.B.Sc	Maximal ideal	maximal ideal. Th <sup>m</sup> - If $R$ is a ring with unity & $N$ is an ideals of $R$ containing a unit. then $N = R$ Ex ① $2\mathbb{Z}$ is maximal ideal of $\mathbb{Z}$ ② $4\mathbb{Z}$ is not maximal ideal of $\mathbb{Z}$ .	NO.

Book referred

Nirali publication, J.B. Fraleigh

Other activities



Signature of the Lecturer

18/05/22  
 18/05/22  
 18/05/22

23/05/2022 to 30/05/2022 T.Y.B.Sc Practical Ex.

## DAILY RECORD

Date: / /201

DAY: \_\_\_\_\_

Time	Class	Topic	Points covered	Remarks
			23/05/2022 to 30/05/2022 T.Y.B.Sc practical Exam.	
			24/05/2022 M.Sc-II Practical Exam.	
			24/05/2022 to 25/05/2022 S.Y.B.Sc practical Exam.	

Book referred

Other activities



Signature of the Lecturer

# DAILY RECORD

Date : 26 / 05 / 2022

DAY : Thursday

Time	Class	Topic	Points covered	Remarks
02:15 pm to 03:00 pm.	M.Sc.-II	Arithmetic function	<p>For positive integers <math>n</math></p> <p>① <math>d(n)</math> is the number of +ve divisors of <math>n</math></p> <p>② <math>\sigma(n)</math> is the sum of the positive divisors of <math>n</math>.</p> <p>③ <math>w(n)</math> is the number of distinct primes dividing <math>n</math></p> <p>④ <math>\omega(n)</math> is the number of primes dividing <math>n</math>, counting multiplicity.</p> <p><u>Ex</u></p> <p>① Find <math>d(12)</math>, <math>\sigma(12)</math>, <math>w(12)</math>, <math>\omega(12)</math></p> <p>② Find <math>d(180)</math>, <math>\sigma(180)</math>, <math>w(180)</math>, <math>\omega(180)</math></p> <p><u>Th<sup>m</sup></u> for each +ve integer <math>n</math></p> $d(n) = \prod_{p n} (\alpha + 1).$	NO.

Book referred

An introduction to theory of Numbers.

Other activities

~~Signature~~

Signature of the Lecturer

# DAILY RECORD

Date: 27 / 05 / 2022

DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:00 am to 11:40 am f 11:40 am to 12:25 pm	S.Y.B.Sc	Kernel & Range	Ex Let $T: \mathbb{R}^3 \rightarrow \mathbb{R}^3$ be a linear s.t $T(1,0,0) = (2,4,-1)$ $T(0,1,0) = (1,3,-2)$ $T(0,0,1) = (0,-2,2)$ find $T(-2,4,-1)$ Kernel of transformation Range of transformation Rank-Nullity Th <sup>m</sup> for transformation	NO.
01:10 pm to 01:55 pm	T.Y.B.Sc	Examples	find all maximal ideal of ring $\mathbb{Z}_2$ Th <sup>m</sup> . Let $R$ be a commutative ring with unity. Then $M$ is a maximal ideal of $R$ iff $R/M$ is a field corollary, A commutative ring with unity is a field iff it has no proper nontrivial ideals.	NO.

Book referred

Nivali publication (S.Y.B.Sc), T.B. Fraleigh.

Other activities



Signature of the Lecturer

# DAILY RECORD

Date: 28 / 05 / 2022

DAY: Saturday.

Time	Class	Topic	Points covered	Remarks
11:00 am to 11:40 am f 11:40 am to 12:25 pm	B-7.BSc	Composite Trans.	<p>Composite Transformation</p> <p><math>\text{Th}^m</math> - Let <math>T_1: V \rightarrow W</math> &amp; <math>T_2: V \rightarrow W</math> Then <math>T_2 \circ T_1: V \rightarrow W</math> is linear.</p> <p>Ex: ① Find domain, codomain &amp; <math>T_2 \circ T_1</math> &amp; <math>(T_2 \circ T_1)(m, y)</math> such that</p> <p><math>T_1(m, y) = (-2x, 3y, x-y)</math> <math>T_2(m, y, z) = (x+y, y+z).</math></p>	No.
01:10 pm to 01:55 pm	M.Sc-II	$\text{Th}^m$	<p>Multiplicative function</p> <p><math>\text{Th}^m</math>:- Let <math>f(n)</math> be a multi. fun<sup>n</sup> <math>F(n) = \sum_{d n} f(d)</math> then <math>f(n)</math> is multiplicative</p> <p><math>\text{Th}^m</math> For every +ve integer</p> <p><math display="block">\phi(n) = \prod_{p n} \left( \frac{p^{x+1} - 1}{p-1} \right)</math></p>	No.

Book referred

Nivali publication, An introduction to theory of  
Numbers.

Other activities



Signature of the Lecturer

## DAILY RECORD

Date: 30/05/2012


DAY: Monday.

Time	Class	Topic	Points covered	Remarks
11:00 am to 11:40 am f 11:40 am to 12:25 pm	S.Y.B.Sc	Matrix of L.T.	<p>① Find the standard matrix for the linear trans. <math>T: \mathbb{R}^3 \rightarrow \mathbb{R}^3</math>, defined by <math>T(x, y, z) = (5x - 3y + z, 2z + 4y, 5x + 3y)</math></p> <p>② Let <math>T: \mathbb{R}^2 \rightarrow \mathbb{R}^2</math> be a linear trans. defined by,  <math>T(x, y, z) = (2x + y - z, 3x - 2y + 4z)</math>            Find <math>[T]_{B_1}^{B_2}</math>, where  <math>B_1 = \{(1, 1), (1, 0)\}</math>  <math>B_2 = \{(1, 3), (1, 4)\}</math></p>	NO.
01:10 pm to 01:55 pm	M.Sc-II	Mobius Mu function	<p>* Mobius Mu function.  <math>T_n^m</math>: the function <math>\mu(n)</math> is multiplicative</p> $\sum_{d n} \mu(d) = \begin{cases} 1, & \text{if } n=1 \\ 0, & \text{if } n>1 \end{cases}$ <p>Mobius Inversion formula.            If <math>F(n) = \sum_{d n} f(d)</math> for every +ve integer <math>n</math> then <math>f(n) = \sum_{d n} \mu(d) F(\frac{n}{d})</math></p>	NO.

Book referred

Nirali publication. An introduction to theory of Numbers

Other activities

  
 Signature of the Lecturer



## DAILY RECORD

Date: 31/05/2022


DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
11:00 am to 11:40 am & 11:40 am to 12:25 pm	S.Y.B.Sc	Isomorphism	<ul style="list-style-type: none"> <li>* Reflection operator</li> <li>* Orthogonal operator</li> <li>* Rotation operator</li> </ul> Isomorphism Ex. ① Use matrix multi. to find the reflection of $(-1, 2)$ about the i. $x$ -axis ii. $y$ -axis ② $T: \mathbb{R}^2 \rightarrow \mathbb{R}^2$ be defined by $T(x, y) = (x+2y, 3x-y)$ .	NO
03:00 pm to 03:55 pm	T.Y.B.Sc	Prime ideal	<ul style="list-style-type: none"> <li>* Prime ideal</li> </ul> Find all prime ideal in $\mathbb{Z}_6$ . $\text{Th}^m$ Let $R$ be a commutative ring with unity & $\mathfrak{N} \neq R$ be an ideal in $R$ then $R/\mathfrak{N}$ is an integral domain iff $\mathfrak{N}$ is prime ideal in $R$ .	NO

Book referred

Nisali publication, J.B. Fraleigh

Other activities

  
 Signature of the Lecturer

# DAILY RECORD

Date: 01/06/2022

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
11:00 am to 11:40 am of 11:40 am to 12:25 pm	T.Y.B.Sc	Principal ideal	<p>Principal ideal.</p> <p>IF <math>F</math> is field, then every ideal in <math>F[x]</math> is principal</p> <p>Th<sup>m</sup>. An ideal <math>\langle p(x) \rangle \neq \{0\}</math> of <math>F[x]</math> is maximal iff <math>p(x)</math> is irreducible over <math>F</math></p> <p>Ex:</p> <p>① Prove that <math>\mathbb{Z}_5[x] / \langle x^3 + 3x + 2 \rangle</math> is a field.</p> <p>② Prove that <math>\mathbb{Q}[x] / \langle x^2 - 2 \rangle</math> is a field.</p> <p>③ Is <math>\mathbb{Q}[x] / \langle x^2 - 5x + 6 \rangle</math> is field.</p> <p>④ Is <math>\mathbb{Q}[x] / \langle x^2 - 6x + 6 \rangle</math> is field.</p> <p>⑤ Find all <math>c \in \mathbb{Z}_3</math> such that <math>\mathbb{Z}_3[x] / \langle x^2 + c \rangle</math> is field.</p> <p>⑥ Find all prime &amp; maximal ideal in <math>\mathbb{Z}_2 \times \mathbb{Z}_2, \mathbb{Z}_2 \times \mathbb{Z}_4</math></p>	NO.

Book referred

J. B. Fraleigh

Other activities



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02/06/2022 - second Term End meeting  
 of T.Y.B.Sc of M.Sc-II Fairwell Function

## DAILY RECORD

Date: 03/06/2022

DAY: Friday

Time	Class	Topic	Points covered	Remarks
11:00 am to 01:00 pm of 03:00 pm to 04:30 pm	T.Y.B.Sc	Factorization	<p>chap-4 Factorization.</p> <p>Divisibility in Ring            unit in Ring            Associates in Ring            Irreducibles element in I.D.</p> <p>Ex</p> <p>① For I.D. D. show that the relation <math>a</math> is related to <math>b</math> if <math>a</math> &amp; <math>b</math> are associates. is an equivalence relation.</p> <p>② Is 2 is irreducible over <math>\mathbb{Z}[i]</math></p> <p>③ Is 5 is irreducible over <math>\mathbb{Z}[i]</math></p> <p>④ Find all associates of <math>2+3i</math> over <math>\mathbb{Z}[i]</math></p> <p>* UFD            * PID.</p> <p>Es. show that <math>(1+i)</math> is irreducible element in <math>\mathbb{Z}[i]</math>.</p>	NO.

Book referred

J.B. Fraleigh

Other activities



Signature of the Lecturer

Holiday - 02/06/2022 to 19/06/2022.

## DAILY RECORD

Date: 04 / 06 / 2022

DAY: Saturday

Time	Class	Topic	Points covered	Remarks
11:00 am to 12:30 pm	T.Y. BSc	Prime element	$\text{Th}^m$ - Let $D$ be an integral domain $a, b \in D$ then i. $\langle a \rangle \subseteq \langle b \rangle$ iff $bl_a$ . ii. $\langle a \rangle = \langle b \rangle$ iff $a$ & $b$ are associates $\text{Th}^m$ - An ideal $\langle p \rangle$ in a PID is maximal iff $p$ is an irreducible element $\text{Th}^m$ - In a PID, if an irreducible $p$ divides $ab$ then either $p a$ or $p b$ x prime element Ex ① $\mathbb{Z} \times \mathbb{Q}$ is PID. ② show that $3$ is prime element in $\mathbb{Z}[\sqrt{2}]$ ③ $4$ is not prime element in $\mathbb{Z}$ .	NO

Book referred

T.B. Fraleigh

Other activities

Signature of the Lecturer

# DAILY RECORD

Date: 06 / 06 / 2012

DAY: Monday

Time	Class	Topic	Points covered	Remarks
11:00am to 12:30pm	T.Y. B.Sc	GCD.	<p>Thm                      Prove that every PID is UFD.                      Corollary                      Prove that <math>\mathbb{Z}</math> is UFD</p> <p>Ex                      ① Is <math>\mathbb{Z}[\sqrt{-5}]</math> is UFD.                      ② show that <math>\mathbb{Q}[\sqrt{2}]</math> is UFD</p> <p>* GCD.                      * primitive polynomial                      * content of polynomial</p> <p>Ex                      Is ① <math>f(x) = 4x^2 + 3x - 2</math> is primitive                      ② find c.f. of  <math>f(x) = 18x^2 - 48x + 12</math>.</p>	NO.

Book referred

T.B. Fraleigh

Other activities



Signature of the Lecturer

# DAILY RECORD

Date: 07/06/2022


DAY: Tuesday

Time	Class	Topic	Points covered	Remarks
11:00 am to 12:30 pm	T.Y. B.Sc	Euclidean domain	<p>th<sup>m</sup> - Gauss lemma                      If <math>D</math> is a UFD, then a product of two primitive polynomials in <math>D[X]</math> is again primitive.                      Euclidean Norm                      Euclidean domain                      for eg <math>D = \mathbb{Z}</math>                      ③ If <math>F</math> is field then <math>F[X]</math> is E.D.                      th<sup>m</sup>.                      Every Euclidean domain is PID.                      th<sup>m</sup>.                      A Euclidean domain is a UFD.</p>	NO

Book referred

J. B. Fraleigh

Other activities

  
Signature of the Lecturer

# DAILY RECORD

Date: 08 / 06 / 2022

DAY: Wednesday

Time	Class	Topic	Points covered	Remarks
11:00 am to 12:30 pm  f 03:00 pm to 04:00 pm	T.Y. B.Sc	Multiplicative Norm	<p>Th<sup>m</sup>..</p> <p>For a Euclidean domain <math>D</math> with a Euclidean norm <math>v</math>, <math>v(a)</math> is minimal among all <math>v(a)</math> for non-zero <math>a \in D</math>.  <math>\neq u \in D</math>, is a unit iff <math>v(u) = v(1)</math>.</p> <p>Ex</p> <p>① Let <math>D</math> be a Euclidean domain &amp; let <math>v</math> be a Euclidean norm on <math>D</math>. show that if <math>a, b</math> are associates in <math>D</math>, then <math>v(a) = v(b)</math>.</p> <p>② Let <math>D</math> be a Euclidean domain &amp; let <math>v</math> be a Euclidean norm on <math>D</math>. show that for non-zero, <math>a, b \in D</math> one has <math>v(a) &lt; v(ab)</math> iff <math>b</math> is not a unit in <math>D</math>.</p>	NO.

Book referred

J. B. Fraleigh

Other activities

  
Signature of the Lecturer

**DAILY RECORD**

Date: 09 / 06 / 2012

DAY: Thursday

Time	Class	Topic	Points covered	Remarks
11:00 am to 12:30 pm	T.Y.B.Sc	Examples	<p>① Consider <math>\alpha = 7+2i</math>, <math>\beta = 3-4i</math> in <math>\mathbb{Z}[i]</math> Find <math>g</math> &amp; <math>s</math> in <math>\mathbb{Z}[i]</math> such that,  <math>\alpha = \beta g + s</math> with <math>N(s) &lt; N(\beta)</math></p> <p>② Find a g.c.d. of <math>8+6i</math> &amp; <math>5-15i</math> in <math>\mathbb{Z}[i]</math></p> <p>③ Find a g.c.d. of <math>16+7i</math> &amp; <math>10-5i</math> in <math>\mathbb{Z}[i]</math></p> <p>④ show that an odd prime <math>p</math> in <math>\mathbb{Z}</math> is irreducible in <math>\mathbb{Z}[i]</math> iff <math>p \equiv 3 \pmod{4}</math>.</p>	NO

Book referred

J. B. Fraleigh

Other activities

  
 Principal  
 S.S.G.M. College  
 Kopergaon

  
 Signature of the Lecturer