



ST FRANCIS DE SALES COLLEGE

Electronic City Post, Bengaluru - 560100

COURSE REPORT

ON

PHYSICS 6 THEORY NEP (PHY 6T)

[Semester(S5) UG - BSC - B.Sc.(Maths-Chemistry, Maths-Computer Science and Physics-Maths), UG - BSC - B.Sc .Physics-Chemistry]

BY

Mrs Umamaheswari Uppuluri

PROPOSED PLAN

Faculty : Mrs Umamaheswari Uppuluri

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
1	25-09-2023	4	Module 1	Thomson's atomic model, Rutherford atomic model,	Atomis structure introduction	constructive	Flipped Classroom
2	29-09-2023	2	Module 1	Theory of alpha particle scattering,	Introduction	constructive	Lecture
3	29-09-2023	8	Module 1	Rutherford scattering formula	Derivation	constructive	Lecture
4	03-10-2023	1	Module 1	, Bohr atomic model – postulates, expression for radius, total energy of electron,	Theory and Derivation	constructive	Lecture
5	06-10-2023	2	Module 1	Sommerfeld's atomic model – model, Derivation of condition for allowed elliptical orbits.	Theory and derivation	constructive	Lecture
6	06-10-2023	8	Module 1	Origin of the spectral lines, Spectral series of hydrogen atom	Theory	constructive	Student Presentation
7	09-10-2023	4	Module 1	Ritz combination principle, Correspondence principle	Principle	collaborative	Student Presentation
8	10-10-2023	1	Module 1	excitation potential and ionization potential, Franck-Hertz experiment.	experiment	reflective	Student Presentation
9	13-10-2023	2	Module 1	Vector atom model – spatial quantization, spin of electron, Quantum numbers associated with vector atomic model.	Assumptions	collaborative	Flipped Classroom
10	13-10-2023	8	Module 1	L-S and j-j coupling schemes, Pauli's exclusion principle,	theory	construtive	Online Resources
11	16-10-2023	4	Module 1	Magnetic dipole moment due to orbital motion of electron – derivation,	theory	reflective	Lecture

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
12	17-10-2023	1	Module 1	Magnetic dipole moment due to spin of an electron, Lande g-factor and its calculation for different states	Derivation	collaborative	Lecture
13	20-10-2023	2	Module 1	Stern-Gerlach experiment – Experimental arrangement and Principle;	Theory	reflective	Online Resources
14	20-10-2023	8	Module 2	Fine structure of spectral lines with examples; Spin-orbit coupling/Spin-Orbit Interaction – qualitativeOptical spectra – spectral terms, spectral notations, selection rules, intensity rules,	basic principles	reflective	Lecture
15	27-10-2023	2	Module 1	Internal exam			Classroom assessment
16	27-10-2023	2	Module 1	Internal exam			Classroom assessment
17	27-10-2023	8	Module 1	Internal exam			Classroom assessment
18	30-10-2023	4	Module 1	Internal exam			Classroom assessment
19	31-10-2023	1	Module 2	Fine structure of the sodium D-line;	theory	Integrative	Practical
20	03-11-2023	2	Module 2	Zeeman effect: Types, Experimental study and classical theory of normal Zeeman effect, Zeeman shift expression	Theory	Integrative	Online Resources
21	03-11-2023	8	Module 2	Stark effect: Experimental study, Types and examples	Theory	collaborative	Student Presentation
22	06-11-2023	4	Module 3	numericals	Problems	Reflective	Lecture
23	07-11-2023	1	Module 3	Types of molecules based on their moment of inertia, Types of molecular motions and energies, Born-Oppenheimer approximation	Theory	Reflective	Lecture
24	10-11-2023	2	Module 3	Origin of molecular spectra; Nature of molecular spectra, rigid rotator – energy levels and spectrum,	Theory	Reflective	Lecture
25	10-11-2023	8	Module 3	Qualitative discussion on Non-rigid rotator and centrifugal distortion, vibrating molecule as a simple harmonic oscillator – energy levels and spectrum,	Theory	Reflective	Lecture

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
26	17-11-2023	2	Module 3	vibrating molecule as a simple harmonic oscillator – energy levels and spectrum,	Theory	Reflective	Lecture
27	17-11-2023	8	Module 3	Electronic spectra of molecules – fluorescence and phosphorescence,	Theory	Constructivist	Student Presentation
28	20-11-2023	4	Module 3	Raman scattering, Stokes and anti-Stokes lines, characteristics of Raman spectra, classical	Theory	Reflective	Tutorial
29	21-11-2023	1	Module 3	quantum approaches, Experimental study of Raman effect, Applications of Raman effect.	Theory	Reflective	Lecture
30	24-11-2023	1	Module 4	Ordinary light versus laser light, Characteristics of laser light, Interaction of radiation with matter - Induced absorption, spontaneous emission and stimulated emission, rate equations,	Definitions	reflective	Lecture
31	24-11-2023	2	Module 4	Einstein's A and B coefficients – Derivation of relation between Einstein's coefficients and radiation energy density,	Derivation	reflective	Lecture
32	24-11-2023	3	Module 4	problems	Mathematical	integrative	Tutorial
33	28-11-2023	1	Module 4	amplification of light, Population inversion, Methods of pumping, Metastable states,	Theory	collaborative	Lecture
34	01-12-2023	1	Module 4	Components of laser system: energy source, active medium and laser cavity,	Theory	reflective	Lecture
35	01-12-2023	4	Module 4	Types of lasers with examples	Theory	integrative	Flipped Classroom
36	04-12-2023	4	Module 4	Construction and Working principle of Ruby Laser	Theory	Reflective	Online Resources
37	05-12-2023	1	Module 4	Construction and Working principle of Ruby Laser	Theory	constructive	Student Presentation
38	08-12-2023	1	Module 4	Construction and Working principle of He- Ne Laser	Theory	Reflective	Online Resources
39	08-12-2023	2	Module 4	Construction and Working principle of He- Ne Laser	Theory	Reflective	Online Resources
40	11-12-2023	4	Module 4	Application of lasers(qualitative): communication, medicine, industry, defense and space.	Theory	integrative	Student Presentation

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
41	11-12-2023	5	Module 4	Numericals	Mathematical	constructive	Tutorial
42	12-12-2023	1	Module 4	Application of lasers(qualitative): communication, medicine, industry, defense and space.	Theory	integrative	Student Presentation
43	22-12-2023	1	Module 4	Model examination	exam	exam	Classroom assessment
44	22-12-2023	2	Module 4	Model exam	exam	exam	Classroom assessment
45	22-12-2023	3	Module 4	Model exam	exam	exam	Classroom assessment
46	05-01-2024	1	Module 1	Short answer revision	theory	constructive	Tutorial
47	05-01-2024	2	Module 2	Short answer revision	theory	constructive	Tutorial
48	08-01-2024	4	Module 3	Short answer revision	theory	constructive	Tutorial
49	08-01-2024	8	Module 2	Numericals	mathematicals	constructive	Tutorial
50	09-01-2024	1	Module 4	Short answer revision	theory	constructive	Tutorial
51	12-01-2024	2	Module 1	Numericals	mathematical	constructive	Tutorial
52	12-01-2024	8	Module 2	Numericals	Mathematical	constructive	Tutorial
53	16-01-2024	1	Module 3	Numericals	mathematical	constructive	Tutorial
54	19-01-2024	2	Module 4	Numericals	mathematical	constructive	Tutorial
55	19-01-2024	8	Module 1	University old question paper revision	revision	reflective	Tutorial
56	23-01-2024	2	Module 2	University old question paper revision	revision	reflective	Tutorial

ACTUAL PLAN**Faculty : Mrs Umamaheswari Uppuluri**

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
1	25-09-2023	4	Module 1	Thomson's atomic model, Rutherford atomic model,	Atomis structure introduction	constructive	Flipped Classroom
2	29-09-2023	2	Module 1	Theory of alpha particle scattering,	Introduction	constructive	Lecture
3	29-09-2023	8	Module 1	Rutherford scattering formula	Derivation	constructive	Lecture
4	03-10-2023	1	Module 1	, Bohr atomic model – postulates, expression for radius, total energy of electron,	Theory and Derivation	constructive	Lecture
5	06-10-2023	2	Module 1	Sommerfeld's atomic model – model, Derivation of condition for allowed elliptical orbits.	Theory and derivation	constructive	Lecture
6	06-10-2023	8	Module 1	Origin of the spectral lines, Spectral series of hydrogen atom	Theory	constructive	Student Presentation
7	09-10-2023	4	Module 1	Ritz combination principle, Correspondence principle	Principle	collaborative	Student Presentation
8	10-10-2023	1	Module 1	excitation potential and ionization potential, Franck-Hertz experiment.	experiment	reflective	Student Presentation
9	13-10-2023	2	Module 1	Vector atom model – spatial quantization, spin of electron, Quantum numbers associated with vector atomic model.	Assumptions	collaborative	Flipped Classroom
10	13-10-2023	8	Module 1	L-S and j-j coupling schemes, Pauli's exclusion principle,	theory	construtive	Online Resources
11	16-10-2023	4	Module 1	Magnetic dipole moment due to orbital motion of electron – derivation,	theory	reflective	Lecture
12	17-10-2023	1	Module 1	Magnetic dipole moment due to spin of an electron, Lande g-factor and its calculation for different states	Derivation	collaborative	Lecture
13	20-10-2023	2	Module 1	Stern-Gerlach experiment – Experimental arrangement and Principle;	Theory	reflective	Online Resources

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
14	20-10-2023	8	Module 1	Fine structure of spectral lines with examples; Spin-orbit coupling/Spin-Orbit Interaction – qualitative Optical spectra – spectral terms, spectral notations, selection rules, intensity rules,	basic principles	reflective	Lecture
15	27-10-2023	2	Module 1	Internal exam			Classroom assessment
16	27-10-2023	8	Module 1	Internal exam			Classroom assessment
17	27-10-2023	8	Module 1	Internal exam			Classroom assessment
18	30-10-2023	4	Module 1	Internal exam			Classroom assessment
19	31-10-2023	1	Module 1	Fine structure of the sodium D-line;	theory	Integrative	Practical
20	03-11-2023	2	Module 2	Fine structure of the sodium D-line; Zeeman effect: Types, Experimental study			Lecture
21	03-11-2023	2	Module 2	Zeeman effect: Types, Experimental study and classical theory of normal Zeeman effect, Zeeman shift expression	Theory	Integrative	Online Resources
22	03-11-2023	8	Module 2	Experimental study and classical theory of normal Zeeman effect, Zeeman shift expression (no derivation)			Online Resources
23	03-11-2023	8	Module 2	Stark effect: Experimental study, Types and examples	Theory	collaborative	Student Presentation
24	06-11-2023	4	Module 2	Zeeman effect derivation			Lecture
25	06-11-2023	4	Module 3	numericals	Problems	Reflective	Lecture
26	07-11-2023	1	Module 3	Types of molecules based on their moment of inertia, Types of molecular motions and energies, Born-Oppenheimer approximation	Theory	Reflective	Lecture
27	07-11-2023	1	Module 2	Anamolous zeeman effect			Student Presentation
28	10-11-2023	2	Module 3	Laser introduction			Lecture
29	10-11-2023	2	Module 3	Origin of molecular spectra; Nature of molecular spectra, rigid rotator – energy levels and spectrum,	Theory	Reflective	Lecture

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
30	17-11-2023	2	Module 3	Raman scattering, Stokes and anti-Stokes lines, characteristics of Raman spectra, quantum approaches	Theory	Reflective	Lecture
31	17-11-2023	8	Module 3	Experimental study of Raman effect, Applications of Raman effect.	Theory	Constructivist	Online Resources
32	20-11-2023	4	Module 3	Raman scattering, Stokes and anti-Stokes lines, characteristics of Raman spectra, classical	Theory	Reflective	Tutorial
33	20-11-2023	4	Module 3	Raman scattering, Stokes and anti-Stokes lines, characteristics of Raman spectra, classical	Theory	Reflective	Tutorial
34	21-11-2023	1	Module 3	quantum approaches, Experimental study of Raman effect, Applications of Raman effect.	Theory	Reflective	Lecture
35	24-11-2023	1	Module 4	Ordinary light versus laser light, Characteristics of laser light, Interaction of radiation with matter - Induced absorption, spontaneous emission and stimulated emission, rate equations,	Definitions	reflective	Lecture
36	24-11-2023	2	Module 4	Einstein's A and B coefficients – Derivation of relation between Einstein's coefficients and radiation energy density,	Derivation	reflective	Lecture
37	24-11-2023	2	Module 4	Einstein's A and B coefficients – Derivation of relation between Einstein's coefficients and radiation energy density,	Derivation	reflective	Lecture
38	24-11-2023	3	Module 4	problems	Mathematical	integrative	Tutorial
39	24-11-2023	3	Module 4	problems	Mathematical	integrative	Tutorial
40	28-11-2023	1	Module 4	amplification of light, Population inversion, Methods of pumping, Metastable states,	Theory	collaborative	Lecture
41	28-11-2023	1	Module 4	amplification of light, Population inversion, Methods of pumping, Metastable states,	Theory	collaborative	Lecture
42	28-11-2023	1	Module 4	amplification of light, Population inversion, Methods of pumping, Metastable states,	Theory	collaborative	Lecture

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
43	01-12-2023	1	Module 4	Components of laser system: energy source, active medium and laser cavity,	Theory	reflective	Lecture
44	01-12-2023	4	Module 4	Types of lasers with examples	Theory	integrative	Flipped Classroom
45	01-12-2023	4	Module 4	Types of lasers with examples	Theory	integrative	Flipped Classroom
46	01-12-2023	4	Module 4	Types of lasers with examples	Theory	integrative	Flipped Classroom
47	01-12-2023	4	Module 4	Types of lasers with examples	Theory	integrative	Flipped Classroom
48	01-12-2023	4	Module 4	Types of lasers with examples	Theory	integrative	Flipped Classroom
49	01-12-2023	4	Module 4	Types of lasers with examples	Theory	integrative	Flipped Classroom
50	01-12-2023	4	Module 4	Types of lasers with examples	Theory	integrative	Flipped Classroom
51	01-12-2023	4	Module 4	Types of lasers with examples	Theory	integrative	Flipped Classroom
52	01-12-2023	4	Module 4	Types of lasers with examples	Theory	integrative	Flipped Classroom
53	01-12-2023	4	Module 4	Types of lasers with examples	Theory	integrative	Flipped Classroom
54	01-12-2023	4	Module 4	Types of lasers with examples	Theory	integrative	Flipped Classroom
55	01-12-2023	4	Module 4	Types of lasers with examples	Theory	integrative	Flipped Classroom
56	01-12-2023	4	Module 4	Types of lasers with examples	Theory	integrative	Flipped Classroom
57	01-12-2023	4	Module 4	Types of lasers with examples	Theory	integrative	Flipped Classroom
58	01-12-2023	4	Module 4	Types of lasers with examples	Theory	integrative	Flipped Classroom
59	01-12-2023	4	Module 4	Types of lasers with examples	Theory	integrative	Flipped Classroom
60	01-12-2023	4	Module 4	Types of lasers with examples	Theory	integrative	Flipped Classroom
61	01-12-2023	4	Module 4	Types of lasers with examples	Theory	integrative	Flipped Classroom
62	01-12-2023	4	Module 4	Types of lasers with examples	Theory	integrative	Flipped Classroom
63	04-12-2023	4	Module 4	Construction and Working principle of Ruby Laser	Theory	Reflective	Online Resources

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
64	04-12-2023	4	Module 4	Construction and Working principle of Ruby Laser	Theory	Reflective	Online Resources
65	04-12-2023	4	Module 4	Construction and Working principle of Ruby Laser	Theory	Reflective	Online Resources
66	04-12-2023	4	Module 4	Construction and Working principle of Ruby Laser	Theory	Reflective	Online Resources
67	05-12-2023	1	Module 4	Construction and Working principle of Ruby Laser	Theory	constructive	Student Presentation
68	08-12-2023	1	Module 4	Construction and Working principle of He- Ne Laser	Theory	Reflective	Online Resources
69	08-12-2023	2	Module 4	Construction and Working principle of He- Ne Laser	Theory	Reflective	Online Resources
70	08-12-2023	2	Module 4	Construction and Working principle of He- Ne Laser	Theory	Reflective	Online Resources
71	08-12-2023	2	Module 4	Construction and Working principle of He- Ne Laser	Theory	Reflective	Online Resources
72	11-12-2023	4	Module 4	Application of lasers(qualitative): communication, medicine, industry, defense and space.	Theory	integrative	Student Presentation
73	11-12-2023	5	Module 4	Numericals	Mathematical	constructive	Tutorial
74	12-12-2023	1	Module 4	Application of lasers(qualitative): communication, medicine, industry, defense and space.	Theory	integrative	Student Presentation
75	22-12-2023	1	Module 4	Model examination	exam	exam	Classroom assessment
76	22-12-2023	2	Module 4	Model exam	exam	exam	Classroom assessment
77	22-12-2023	3	Module 4	Model exam	exam	exam	Classroom assessment
78	05-01-2024	1	Module 1	Short answer revision	theory	constructive	Tutorial
79	05-01-2024	2	Module 2	Short answer revision	theory	constructive	Tutorial
80	08-01-2024	4	Module 3	Short answer revision	theory	constructive	Tutorial
81	08-01-2024	8	Module 2	Numericals	mathematicals	constructive	Tutorial
82	09-01-2024	1	Module 4	Short answer revision	theory	constructive	Tutorial
83	12-01-2024	2	Module 1	Numericals	mathematical	constructive	Tutorial
84	12-01-2024	8	Module 2	Numericals	Mathematical	constructive	Tutorial
85	16-01-2024	1	Module 3	Numericals	mathematical	constructive	Tutorial
86	19-01-2024	2	Module 4	Numericals	mathematical	constructive	Tutorial
87	19-01-2024	8	Module 1	University old question paper revision	revision	reflective	Tutorial

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
88	23-01-2024	2	Module 2	University old question paper revision	revision	reflective	Tutorial

SLOW LEARNER ANALYSIS

Internal 1 - 22nd Nov 2023			
Test based on assessment : Internal 1			
STUDENTS DETAILS WITH MARK PERECENTAGE BETWEEN 0% AND 35%			
Roll Number	Register Number	Student Name	Attendance Status
U03MB21S0059K	U03MB21S0059	ASHWINI M N	Absent
U03MB21S0062K	U03MB21S0062	S ASHMITHA	Absent
U03MB21S0065TE	U03MB21S0065	SURA LAKSHMI TEJA	Present
U03MB21S0068TA	U03MB21S0068	PRAVEENKUMAR L	Present
Remedial Action	Date Of Action	Effectiveness of Remedial Action	
Assignment	20/11/2023	Assignment	
Seminar	22/11/2023	Seminar	
Model exam - 24th Jan 2024			
Test based on assessment : Internal 2			
STUDENTS DETAILS WITH MARK PERECENTAGE BETWEEN 0% AND 40%			
Roll Number	Register Number	Student Name	Attendance Status
U03MB21S0062K	U03MB21S0062	S ASHMITHA	Absent
U03MB21S0065TE	U03MB21S0065	SURA LAKSHMI TEJA	Present
U03MB21S0068TA	U03MB21S0068	PRAVEENKUMAR L	Present
Remedial Action	Date Of Action	Effectiveness of Remedial Action	
Numericals	12/01/2024	More practice required	
Short answer questions	16/01/2024	1st and 2nd units completed	
8 marks questions	19/01/2024	1st and 2nd units	
8 marks questions	23/01/2024	3rd and 4rth unit	

INTERNAL MARK SPLIT UP

Sl.No	Register No	Student Name	FI	ASS	ATT	MOD	SEM	QUIZ	TOTAL MARKS	EXTRA MARKS	GRAND TOTAL
1	U03MB21S0060	BHARGAVI V	10	5	5	8	5	3	36	0	36
2	U03MB21S0061	RUCHITHA	10	5	5	8	5	2	35	0	35
3	U03MB21S0062	S ASHMITHA	0	0	0	0	0	0	0	0	0
4	U03MB21S0064	SUPRIYA S	9	5	5	7	5	3	34	0	34
5	U03MB21S0065	SURA LAKSHMI TEJA	0	4	4	0	5	0	13	7	20
6	U03MB21S0068	PRAVEENKUMAR L	0	4	3	0	5	0	12	8	20
7	U03MB21S0070	LAVANYA N	9	4	5	6	5	2	31	0	31

CONSOLIDATED INTERNAL MARK

Sl.no	Register No	Student Name	Marks
1	U03MB21S0060	BHARGAVI V	36
2	U03MB21S0061	RUCHITHA	35
3	U03MB21S0062	S ASHMITHA	0
4	U03MB21S0064	SUPRIYA S	34
5	U03MB21S0065	SURA LAKSHMI TEJA	20
6	U03MB21S0068	PRAVEENKUMAR L	20

FACULTY TIMETABLE

Day	hour 1	hour 2	hour 3	hour 4	hour 5	hour 6	hour 7	hour 8
Monday	-	-	PHY.DSCT3 - Wave Motion and OPTics	PHY 6T - PHYSICS 6 THEORY NEP	-	-	PHY.DSCT3 - Wave Motion and OPTics	-
Tuesday	PHY 6T - PHYSICS 6 THEORY NEP	PHY-DSCP3- LAB III - physics practical III	PHY- DSCP3-LAB III - physics practical III	AECC-III - INDIAN CONSTITUTION	-	-	-	-
Wednesday	AECC-III - INDIAN CONSTITUTION	-	PHY.DSCT3 - Wave Motion and OPTics	-	PHY.DSCT3 - Wave Motion and OPTics	-	-	-
Thursday	-	PHY 6P - PHYSICS 6 PRACTICAL NEP	-	-	-	ECO OE 3 - RURAL ECONOMICS	-	-
Friday	-	PHY 6T - PHYSICS 6 THEORY NEP CA-C13T - Python Programming	-	-	-	PHY 6P - PHYSICS 6 PRACTICAL NEP	PHY 6P - PHYSICS 6 PRACTICAL NEP	PHY 6T - PHYSICS 6 THEORY NEP

STUDENT LIST

Sl.No	Roll No	Admission No	Register No	Student Name
1	U03MB21S0060K	SFS21220359	U03MB21S0060	BHARGAVI V
2	U03MB21S0061K	SFS21220983	U03MB21S0061	RUCHITHA
3	U03MB21S0062K	SFS21220549	U03MB21S0062	S ASHMITHA
4	U03MB21S0064K	SFS21221019	U03MB21S0064	SUPRIYA S
5	U03MB21S0065TE	SFS21220894	U03MB21S0065	SURA LAKSHMI TEJA
6	U03MB21S0068TA	SFS21220913	U03MB21S0068	PRAVEENKUMAR L
7	U03MB21S0070K	SFS21220569	U03MB21S0070	LAVANYA N

CO-PO MAPPING

PROGRAM: UG - BSC - B.Sc.(Maths-Chemistry, Maths-Computer Science and Physics-Maths)

CO/PO	CO1	CO2	CO3	CO4	CO5
PO1	MEDIUM			MEDIUM	
PO2		MEDIUM			MEDIUM
PO3					LOW
PO4	LOW				
PO5			MEDIUM		
PO6			LOW		
PO7		LOW			
PSO3	HIGH		HIGH		HIGH
PSO4		HIGH		HIGH	

PROGRAM: UG - BSC - B.Sc .Physics-Chemistry

CO/PO	CO1	CO2	CO3	CO4	CO5
PO1	MEDIUM			MEDIUM	
PO2		MEDIUM			MEDIUM
PO3					LOW
PO4	LOW				
PO5			MEDIUM		
PO6			LOW		
PO7		LOW			
PSO1	HIGH		HIGH	HIGH	HIGH
PSO10		HIGH			

CO LIST

Code	Name	Description
CO1	CO1	CO1-Description of atomic properties using basic atomic models.
CO2	CO2	Interpretation of atomic spectra of elements using vector atom model.
CO3	CO3	Interpretation of molecular spectra of compounds using basics of molecular physics
CO4	CO4	Theoretical and experimental study of raman effect and its application.
CO5	CO5	Explanation of laser systems and their applications in various fields



ST FRANCIS DE SALES COLLEGE

Electronic City Post, Bengaluru - 560100

COURSE REPORT

ON

INDIAN CONSTITUTION (AECC-III)

[Semester(S3) UG - BSC - B.Sc. (Com Sci-Ele, Com Sci-Maths, Phy-Maths, Che-Maths, Phy-Che)]

BY

Mrs Umamaheswari Uppuluri

PROPOSED PLAN

Faculty : Mrs Umamaheswari Uppuluri

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
1	27-09-2023	1	Module 1	Introduction to curriculum	In trodution	Collaborative	Online Resources
2	29-09-2023	1	Module 1	Introduction to curriculum - syllabus , references	Introduction	Collaborative	Online Resources
3	03-10-2023	4	Module 1	Importance of the subject	theory frame work	collaborative	Online Resources
4	04-10-2023	1	Module 1	Constitution of india basics	Basics	Constructive	Lecture
5	06-10-2023	1	Module 1	Constituent assembly	frame work	Constructive	Lecture
6	10-10-2023	4	Module 1	composition , objective	theory	collaborative	Lecture
7	11-10-2023	1	Module 1	Preamble	theory	collaborative	Lecture
8	13-10-2023	1	Module 1	Salient features of Constitution of India	theory	collaborative	Online Resources
9	17-10-2023	4	Module 1	Salient features of Constitution of India	theory	collaborative	Online Resources
10	18-10-2023	1	Module 1	Salient features of Constitution of India	theory	collaborative	Online Resources
11	31-10-2023	4	Module 1	Internal exam			Classroom assessment
12	07-11-2023	4	Module 1	Fundamental rights	theory	constructive	Classroom activity
13	08-11-2023	1	Module 1	Fundamental duties	theory	constructive	Classroom activity
14	15-11-2023	1	Module 1	Directive principles	theory	reflective	Lecture
15	21-11-2023	4	Module 2	Union government president	theory	collaborative	Student Presentation

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
16	22-11-2023	1	Module 2	prime minister	theory	collaborative	Student Presentation
17	28-11-2023	4	Module 2	council of ministers central and state	theory	constructive	Student Presentation
18	29-11-2023	1	Module 2	Governor, chief minister	theory	collaborative	Student Presentation
19	05-12-2023	4	Module 3	Philosophical and Political (foundations of India: Dharma and Danda, Buddhist, liberal (Raja Rammohun Roy) and Subaltern (Ranajit Guha) * Colonial impact on Indian society,*	theory	reflective	Lecture
20	06-12-2023	1	Module 3	Political values and Ideals : Non Violence, Tolerance (Gandhi), Co-existence, Maulana Azad, Swarajya (Tilak), Integral Humanism (Deen Dayal Upadhyay) And Voluntarism (Vinoba Bhave).	theory	reflective	Lecture
21	12-12-2023	4	Module 3	Political Contribution of Regional freedom struggle: Kittur Rani Chennamma, Hardekar Manjappa, Kamala Devi Chattopadhaya	theory	constructive	Classroom activity
22	13-12-2023	1	Module 3	: Parliamentary and Constitutional Institutions: Legislature* (Upper and Lower house), Executive (composition and powers). Judiciary (High Court and Supreme Court, composition and jurisdiction). Comptroller and Auditor General Election Commission	theory	integrative	Online Resources
23	18-12-2023	1	Module 3	Model exam	theory	exam	Classroom assessment
24	18-12-2023	2	Module 3	Model exam	theory	exam	Classroom assessment
25	18-12-2023	3	Module 3	Model exam	theory	exam	Classroom assessment

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
26	02-01-2024	4	Module 3	Role and Responsibilities of Citizens under Indian Constitution: Concept of Citizenship. Citizenship Amendment Act (2019), Fundamental Duties, Right to Information Act (2005), Civil Society	theory	exam	Lecture
27	03-01-2024	1	Module 3	Role and Responsibilities of Citizens under Indian Constitution: Concept of Citizenship. Citizenship Amendment Act (2019), Fundamental Duties, Right to Information Act (2005), Civil Society	theory	reflective	Lecture
28	09-01-2024	4	Module 3	Goals and Policies of National Development enshrined in the Constitution: Concept of National Development, Unity and Integrity of the nation, Goals of Educational Policies (1986&2020) Role of teachers and students in Nation Building	theory	reflective	Lecture
29	10-01-2024	1	Module 3	Goals and Policies of National Development enshrined in the Constitution: Concept of National Development, Unity and Integrity of the nation, Goals of Educational Policies (1986&2020) Role of teachers and students in Nation Building	theory	reflective	Lecture
30	16-01-2024	4	Module 1	revision	theory	constructive	Classroom activity
31	17-01-2024	1	Module 2	revision	theory	constructive	Classroom activity
32	23-01-2024	4	Module 3	revision	theory	constructive	Classroom activity
33	24-01-2024	1	Module 2	question discussion	theory	integrative	Tutorial

ACTUAL PLAN**Faculty : Mrs Umamaheswari Uppuluri**

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
1	27-09-2023	1	Module 1	Introduction to curriculum	In trodution	Collaborative	Online Resources
2	29-09-2023	1	Module 1	Introduction to curriculum - syllabus , references	Introduction	Collaborative	Online Resources
3	03-10-2023	4	Module 1	Importance of the subject	theory frame work	collaborative	Online Resources
4	04-10-2023	1	Module 1	Constitution of india basics	Basics	Constructive	Lecture
5	06-10-2023	1	Module 1	Constituent assembly	frame work	Constructive	Lecture
6	10-10-2023	4	Module 1	composition , objective	theory	collaborative	Lecture
7	11-10-2023	1	Module 1	Preamble	theory	collaborative	Lecture
8	13-10-2023	1	Module 1	Salient features of Constitution of India	theory	collaborative	Online Resources
9	17-10-2023	4	Module 1	Salient features of Constitution of India	theory	collaborative	Online Resources
10	18-10-2023	1	Module 1	Salient features of Constitution of India	theory	collaborative	Online Resources
11	31-10-2023	4	Module 1	Internal exam			Classroom assessment
12	07-11-2023	4	Module 2	Fundamental rights	theory	reflective	Lab
13	08-11-2023	1	Module 2	Fundamental rights	theory	reflective	Student Presentation
14	15-11-2023	1	Module 1	Directive principles	theory	reflective	Lecture
15	21-11-2023	4	Module 2	Union government president	theory	collaborative	Student Presentation
16	22-11-2023	1	Module 2	prime minister	theory	collaborative	Student Presentation
17	28-11-2023	4	Module 2	council of ministers central and state	theory	constructive	Student Presentation
18	29-11-2023	1	Module 2	Governor, chief minister	theory	collaborative	Student Presentation
19	05-12-2023	4	Module 3	Philosophical and Political (foundations of India: Dharma and Danda, Buddhist,liberal (Raja Rammohun Roy) and Subaltern (Ranajit Guha) * Colonial impact on Indian society,*	theory	reflective	Lecture

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
20	05-12-2023	4	Module 3	Philosophical and Political (foundations of India: Dharma and Danda, Buddhist, liberal (Raja Rammohun Roy) and Subaltern (Ranajit Guha) * Colonial impact on Indian society, *	theory	reflective	Lecture
21	06-12-2023	1	Module 3	Political values and Ideals : Non Violence, Tolerance (Gandhi), Co-existence, Maulana Azad, Swarajya (Tilak), Integral Humanism (Deen Dayal Upadhyay) And Voluntarism (Vinoba Bhave).	theory	reflective	Lecture
22	12-12-2023	4	Module 3	Political Contribution of Regional freedom struggle: Kittur Rani Chennamma, Hardekar Manjappa, Kamala Devi Chattopadhyaya	theory	constructive	Classroom activity
23	13-12-2023	1	Module 3	: Parliamentary and Constitutional Institutions: Legislature* (Upper and Lower house), Executive (composition and powers). Judiciary (High Court and Supreme Court, composition and jurisdiction). Comptroller and Auditor General Election Commission	theory	integrative	Online Resources
24	18-12-2023	1	Module 3	Model exam	theory	exam	Classroom assessment
25	18-12-2023	2	Module 3	Model exam	theory	exam	Classroom assessment
26	18-12-2023	3	Module 3	Model exam	theory	exam	Classroom assessment
27	18-12-2023	3	Module 3	Model exam	theory	exam	Classroom assessment
28	02-01-2024	4	Module 3	Role and Responsibilities of Citizens under Indian Constitution: Concept of Citizenship. Citizenship Amendment Act (2019), Fundamental Duties, Right to Information Act (2005), Civil Society	theory	exam	Lecture

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
29	03-01-2024	1	Module 3	Role and Responsibilities of Citizens under Indian Constitution: Concept of Citizenship. Citizenship Amendment Act (2019), Fundamental Duties, Right to Information Act (2005), Civil Society	theory	reflective	Lecture
30	09-01-2024	4	Module 3	Goals and Policies of National Development enshrined in the Constitution: Concept of National Development, Unity and Integrity of the nation, Goals of Educational Policies (1986&2020) Role of teachers and students in Nation Building	theory	reflective	Lecture
31	10-01-2024	1	Module 3	Goals and Policies of National Development enshrined in the Constitution: Concept of National Development, Unity and Integrity of the nation, Goals of Educational Policies (1986&2020) Role of teachers and students in Nation Building	theory	reflective	Lecture
32	16-01-2024	4	Module 1	revision	theory	constructive	Classroom activity
33	17-01-2024	1	Module 2	revision	theory	constructive	Classroom activity
34	23-01-2024	4	Module 3	revision	theory	constructive	Classroom activity
35	23-01-2024	4	Module 3	revision	theory	constructive	Classroom activity
36	24-01-2024	1	Module 2	question discussion	theory	integrative	Tutorial

SLOW LEARNER ANALYSIS

Model exam - 25th Jan 2024			
Test based on assessment : Internal 1			
STUDENTS DETAILS WITH MARK PERCENTAGE BETWEEN 0% AND 40%			
Roll Number	Register Number	Student Name	Attendance Status
U03MB22S0002H	U03MB22S0002	MORE SHRAVANI SANJAY	Present
U03MB22S0105K	U03MB22S0105	JAYA CHANDRA K	Present
U03MB22S0083TA	U03MB22S0083	SUDHARSAN K	Present
U03MB22S0040TA	U03MB22S0040	MYTHRI A	Present
U03MB22S0115TA	U03MB22S0115	RAGUL S	Present
U03MB22S0138TA	U03MB22S0138	B GOWTHAM VEER	Present
U03MB22S0134K	U03MB22S0134	RAHUL D	Present
U03MB22S0005TA	U03MB22S0005	YASHWANTH P	Present
U03MB22S0029K	U03MB22S0029	VEERESH B	Present
U03MB22S0130TA	U03MB22S0130	JEEVITHA S	Present
U03MB22S0122TA	U03MB22S0122	SOWMIYA R	Present
U03MB22S0159TA	U03MB22S0159	SOUNDARYA M	Present
U03MB22S0162TA	U03MB22S0162	SUNILVEER R	Absent
U03MB22S0181K	U03MB22S0181	HARINATH	Present
U03MB22S0182TA	U03MB22S0182	JAYASHEELAN T	Present
U03MB22S0191T	U03MB22S0191	DHEENA V	Absent
Remedial Action	Date Of Action	Effectiveness of Remedial Action	
Student seminar	16/01/2024	topics of unit 1 revision	
unit 2 discussion	17/01/2024	Short answer quiz.	
unit 3 & 4 revision	23/01/2024	MCQ'S	

INTERNAL MARK SPLIT UP

Sl.No	Register No	Student Name	ASS	MOD	TOTAL	Extra Marks	Grand Total
1	U03MB22S0001	DHARSHAN P	10	10	20	0	20
2	U03MB22S0002	MORE SHRAVANI SANJAY	10	0	10	0	10
3	U03MB22S0005	YASHWANTH P	6	0	6	0	6
4	U03MB22S0006	THIRUMALAI VASAN .G	10	8	18	0	18
5	U03MB22S0018	JERWIN ANDRO S	10	5	15	0	15
6	U03MB22S0029	VEERESH B	10	0	10	0	10
7	U03MB22S0040	MYTHRI A	10	0	10	0	10
8	U03MB22S0041	NIVETHA I	10	8	18	0	18
9	U03MB22S0045	JANSI M	10	9	19	0	19
10	U03MB22S0053	LINGESH C	6	5	11	0	11
11	U03MB22S0057	S N SREE MANJUNATH	10	5	15	0	15
12	U03MB22S0071	CHANDANA T G	10	9	19	0	19
13	U03MB22S0078	NEHA P	10	10	20	0	20
14	U03MB22S0083	SUDHARSAN K	10	0	10	0	10
15	U03MB22S0093	THARUN B	10	7	17	0	17
16	U03MB22S0095	RAJALAKSHMI H	10	5	15	0	15
17	U03MB22S0099	M SHRUTHI	10	10	20	0	20
18	U03MB22S0105	JAYA CHANDRA K	10	0	10	0	10
19	U03MB22S0110	SARATH SRINIVASAN S	10	5	15	0	15
20	U03MB22S0113	SUSHMITHA V	10	8	18	0	18
21	U03MB22S0114	HARSHITHA C	10	8	18	0	18
22	U03MB22S0115	RAGUL S	10	4	14	0	14
23	U03MB22S0119	KOTESH M	10	6	16	0	16
24	U03MB22S0120	GOWTHAM V	10	5	15	0	15
25	U03MB22S0122	SOWMIYA R	10	4	14	0	14
26	U03MB22S0128	MOHAMMED RIZA T	6	5	11	0	11
27	U03MB22S0130	JEEVITHA S	6	0	6	0	6
28	U03MB22S0134	RAHUL D	10	0	10	0	10
29	U03MB22S0138	B GOWTHAM VEER	10	0	10	0	10
30	U03MB22S0139	ASHWIN .K.S	10	5	15	0	15
31	U03MB22S0149	NAZREEN JABEEN	10	5	15	0	15

Sl.No	Register No	Student Name	ASS	MOD	TOTAL	Extra Marks	Grand Total
32	U03MB22S0155	ANUPAMA N L	10	6	16	0	16
33	U03MB22S0159	SOUNDARYA M	10	0	10	0	10
34	U03MB22S0162	SUNILVEER R	6	0	6	0	6
35	U03MB22S0164	LAVANYA M	10	5	15	0	15
36	U03MB22S0165	JACOB B	10	7	17	0	17
37	U03MB22S0167	MONISHA R	10	10	20	0	20
38	U03MB22S0169	NOURIEEN BEGUM	10	10	20	0	20
39	U03MB22S0180	CHETHAN V	10	6	16	0	16
40	U03MB22S0181	HARINATH	10	0	10	0	10
41	U03MB22S0182	JAYASHEELAN T	8	4	12	0	12
42	U03MB22S0186	MEGHANA M	10	9	19	0	19
43	U03MB22S0187	M ANUPAMA	10	8	18	0	18
44	U03MB22S0188	RAJESH BUDATHOKI	10	7	17	0	17
45	U03MB22S0191	DHEENA V	0	0	0	0	0

CONSOLIDATED INTERNAL MARK

Sl.no	Register No	Student Name	Marks
1	U03MB22S0001	DHARSHAN P	20
2	U03MB22S0002	MORE SHRAVANI SANJAY	10
3	U03MB22S0005	YASHWANTH P	6
4	U03MB22S0006	THIRUMALAI VASAN .G	18
5	U03MB22S0018	JERWIN ANDRO S	15
6	U03MB22S0029	VEERESH B	10
7	U03MB22S0040	MYTHRI A	10
8	U03MB22S0041	NIVETHA I	18
9	U03MB22S0045	JANSI M	19
10	U03MB22S0053	LINGESH C	11
11	U03MB22S0057	S N SREE MANJUNATH	15
12	U03MB22S0071	CHANDANA T G	19
13	U03MB22S0078	NEHA P	20
14	U03MB22S0083	SUDHARSAN K	10
15	U03MB22S0093	THARUN B	17
16	U03MB22S0095	RAJALAKSHMI H	15
17	U03MB22S0099	M SHRUTHI	20
18	U03MB22S0105	JAYA CHANDRA K	10
19	U03MB22S0110	SARATH SRINIVASAN S	15
20	U03MB22S0113	SUSHMITHA V	18
21	U03MB22S0114	HARSHITHA C	18
22	U03MB22S0115	RAGUL S	14
23	U03MB22S0119	KOTESH M	16
24	U03MB22S0120	GOWTHAM V	15
25	U03MB22S0122	SOWMIYA R	14
26	U03MB22S0128	MOHAMMED RIZA T	11
27	U03MB22S0130	JEEVITHA S	6
28	U03MB22S0134	RAHUL D	10
29	U03MB22S0138	B GOWTHAM VEER	10
30	U03MB22S0139	ASHWIN .K.S	15
31	U03MB22S0149	NAZREEN JABEEN	15

Sl.no	Register No	Student Name	Marks
32	U03MB22S0155	ANUPAMA N L	16
33	U03MB22S0159	SOUNDARYA M	10
34	U03MB22S0162	SUNILVEER R	6
35	U03MB22S0164	LAVANYA M	15
36	U03MB22S0165	JACOB B	17
37	U03MB22S0167	MONISHA R	20
38	U03MB22S0169	NOURIEEN BEGUM	20
39	U03MB22S0180	CHETHAN V	16
40	U03MB22S0181	HARINATH	10
41	U03MB22S0182	JAYASHEELAN T	12
42	U03MB22S0186	MEGHANA M	19
43	U03MB22S0187	M ANUPAMA	18
44	U03MB22S0188	RAJESH BUDATHOKI	17
45	U03MB22S0191	DHEENA V	0

FACULTY TIMETABLE

Day	hour 1	hour 2	hour 3	hour 4	hour 5	hour 6	hour 7	hour 8
Monday	-	-	PHY.DSCT3 - Wave Motion and Optics	PHY 6T - PHYSICS 6 THEORY NEP	-	-	PHY.DSCT3 - Wave Motion and Optics	-
Tuesday	PHY 6T - PHYSICS 6 THEORY NEP	PHY-DSCP3- LAB III - physics practical III	PHY- DSCP3- LAB III - physics practical III	AECC-III - INDIAN CONSTITUTION	-	-	-	-
Wednesday	AECC-III - INDIAN CONSTITUTION	-	PHY.DSCT3 - Wave Motion and Optics	-	PHY.DSCT3 - Wave Motion and Optics	-	-	-
Thursday	-	PHY 6P - PHYSICS 6 PRACTICAL NEP	-	-	-	ECO OE 3 - RURAL ECONOMICS	-	-
Friday	-	PHY 6T - PHYSICS 6 THEORY NEP CA-C13T - Python Programming	-	-	-	PHY 6P - PHYSICS 6 PRACTICAL NEP	PHY 6P - PHYSICS 6 PRACTICAL NEP	PHY 6T - PHYSICS 6 THEORY NEP

STUDENT LIST

Sl.No	Roll No	Admission No	Register No	Student Name
1	U03MB22S0001TA	SFS22230688	U03MB22S0001	DHARSHAN P
2	U03MB22S0002H	SFS22230080	U03MB22S0002	MORE SHRAVANI SANJAY
3	U03MB22S0005TA	SFS22230568	U03MB22S0005	YASHWANTH P
4	U03MB22S0006TA	SFS22230605	U03MB22S0006	THIRUMALAI VASAN .G
5	U03MB22S0018K	SFS22230651	U03MB22S0018	JERWIN ANDRO S
6	U03MB22S0029K	SFS22230722	U03MB22S0029	VEERESH B
7	U03MB22S0040TA	SFS22230386	U03MB22S0040	MYTHRI A
8	U03MB22S0041TA	SFS22230565	U03MB22S0041	NIVETHA I
9	U03MB22S0045K	SFS22230312	U03MB22S0045	JANSI M
10	U03MB22S0053T	SFS22230664	U03MB22S0053	LINGESH C
11	U03MB22S0057H	SFS22230468	U03MB22S0057	S N SREE MANJUNATH
12	U03MB22S0071K	SFS22230126	U03MB22S0071	CHANDANA T G
13	U03MB22S0078H	SFS22230003	U03MB22S0078	NEHA P
14	U03MB22S0083TA	SFS22230439	U03MB22S0083	SUDHARSAN K
15	U03MB22S0093S	SFS22230483	U03MB22S0093	THARUN B
16	U03MB22S0095TA	SFS22230655	U03MB22S0095	RAJALAKSHMI H
17	U03MB22S0099K	SFS22230225	U03MB22S0099	M SHRUTHI
18	U03MB22S0105K	SFS22230402	U03MB22S0105	JAYA CHANDRA K
19	U03MB22S0110TA	SFS22230458	U03MB22S0110	SARATH SRINIVASAN S
20	U03MB22S0113K	SFS22230812	U03MB22S0113	SUSHMITHA V
21	U03MB22S0114K	SFS22230841	U03MB22S0114	HARSHITHA C
22	U03MB22S0115TA	SFS22230555	U03MB22S0115	RAGUL S
23	U03MB22S0119H	SFS22230109	U03MB22S0119	KOTESH M
24	U03MB22S0120TA	SFS22230881	U03MB22S0120	GOWTHAM V
25	U03MB22S0122TA	SFS22230819	U03MB22S0122	SOWMIYA R
26	U03MB22S0128TA	SFS22230479	U03MB22S0128	MOHAMMED RIZA T
27	U03MB22S0130TA	SFS22230649	U03MB22S0130	JEEVITHA S
28	U03MB22S0134K	SFS22230590	U03MB22S0134	RAHUL D
29	U03MB22S0138TA	SFS22230301	U03MB22S0138	B GOWTHAM VEER
30	U03MB22S0139H	SFS22230376	U03MB22S0139	ASHWIN .K.S
31	U03MB22S0149H	SFS22230925	U03MB22S0149	NAZREEN JABEEN

Sl.No	Roll No	Admission No	Register No	Student Name
32	U03MB22S0155K	SFS22230240	U03MB22S0155	ANUPAMA N L
33	U03MB22S0159TA	SFS22230958	U03MB22S0159	SOUNDARYA M
34	U03MB22S0162TA	SFS22230962	U03MB22S0162	SUNILVEER R
35	U03MB22S0164TA	SFS22230607	U03MB22S0164	LAVANYA M
36	U03MB22S0165K	SFS22230931	U03MB22S0165	JACOB B
37	U03MB22S0167K	SFS22230896	U03MB22S0167	MONISHA R
38	U03MB22S0169K	SFS22230979	U03MB22S0169	NOURIEEN BEGUM
39	U03MB22S0180K	SFS22230963	U03MB22S0180	CHETHAN V
40	U03MB22S0181K	SFS22231002	U03MB22S0181	HARINATH
41	U03MB22S0182TA	SFS22231006	U03MB22S0182	JAYASHEELAN T
42	U03MB22S0186K	SFS22231015	U03MB22S0186	MEGHANA M
43	U03MB22S0187H	SFS22231012	U03MB22S0187	M ANUPAMA
44	U03MB22S0188H	SFS22231009	U03MB22S0188	RAJESH BUDATHOKI
45	U03MB22S0191T	SFS22230995	U03MB22S0191	DHEENA V



ST FRANCIS DE SALES COLLEGE

Electronic City Post, Bengaluru - 560100

COURSE REPORT

ON

Analytical and Organic chemistry II (DSC-3)

[Semester(S3) UG - BSC - B.Sc. (Com Sci-Ele, Com Sci-Maths, Phy-Maths, Che-Maths, Phy-Che)]

BY

Ms. NEBULA MURUKESH

PROPOSED PLAN

Faculty : Ms. NEBULA MURUKESH

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
1	29-09-2023	2	Module 1	Unit I: Quantitative Analysis-Instrumental methods	Electromagnetic Spectrum, absorption of electromagnetic radiation, Definition and units of frequency, wavelength, wave number,		Lecture with ICT Tools
2	29-09-2023	3	Module 1	Unit I: Quantitative Analysis-Instrumental methods	Beer-Lambert law and its derivation, deviations, limitations,		Lecture with ICT Tools
3	29-09-2023	8	Module 1	Unit I: Quantitative Analysis-Instrumental methods	construction of calibration graph (Plot of absorbance vs concentration).	Experiential Learning	Practical
4	06-10-2023	7	Module 1	Unit I: Quantitative Analysis-Instrumental methods	Evaluation Procedures-standard addition,	Discussion-based	Lecture with ICT Tools
5	13-10-2023	7	Module 1	Unit I: Quantitative Analysis-Instrumental methods	Evaluation Procedures-standard addition	Discussion-based	Lecture with ICT Tools
6	20-10-2023	4	Module 1	Unit I: Quantitative Analysis-Instrumental methods	validation parameters-detection limits, sensitivity, linearity	Experiential Learning	Practical
7	20-10-2023	4	Module 1	Unit I: Quantitative Analysis-Instrumental methods	Instrumentation, single beam and double beam spectrophotometer, (Principle and flowchart)	Experiential Learning	Lecture with ICT Tools
8	20-10-2023	6	Module 1	Unit I: Quantitative Analysis-Instrumental methods	quantitative applications of colorimetry (determination of Fe, Cu, Ti and PO_4^{3-}). Numerical problems on application of Beer's law	Discussion Based	Lecture with ICT Tools
9	26-10-2023	4	Module 5	First Internal Exam	First Internal Exam	First Internal Exam	Classroom assessment
10	27-10-2023	6	Module 5	First Internal Exam	First Internal Exam	First Internal Exam	Classroom assessment
11	30-10-2023	4	Module 5	First Internal Exam	First Internal Exam	First Internal Exam	Classroom assessment

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
12	02-11-2023	4	Module 1	Unit I: Quantitative Analysis-Instrumental methods	Nephelometry and Turbidometry: Introduction, principle, instrumentations,	Discussion Based	Lecture with ICT Tools
13	08-11-2023	6	Module 1	Unit I: Quantitative Analysis-Instrumental methods	Effects of concentration,particle size and wavelength on scattering	Discussion Based	Lecture with ICT Tools
14	09-11-2023	4	Module 1	Unit I: Quantitative Analysis-Instrumental methods	Choice between nephelometry and turbidometry, Applications		Lecture with ICT Tools
15	10-11-2023	2	Module 2	Unit I: Quantitative Analysis-Instrumental methods	Seminar		Classroom activity
16	16-11-2023	4	Module 2	Unit II: Separation methods.	Fundamentals of chromatography;		Lecture with ICT Tools
17	17-11-2023	6	Module 2	Unit II: Separation methods.	Column chromatography. Principle		Lecture with ICT Tools
18	23-11-2023	4	Module 2	Unit II: Separation methods.	Column chromatography. Principle		Lecture with ICT Tools
19	01-12-2023	6	Module 2	Unit II: Separation methods.	Column efficiency, factors affecting the column efficiency	Experiential learning	Practical
20	07-12-2023	4	Module 2	Unit II: Separation methods.	van Deemter's equation and its modern version.		Lecture with ICT Tools
21	08-12-2023	6	Module 2	Unit II: Separation methods.	Paper chromatography: Principle and applications		Lecture with ICT Tools
22	14-12-2023	4	Module 2	Unit II: Separation methods.	.Thin layer chromatography (TLC		Lecture with ICT Tools
23	15-12-2023	6	Module 2	Unit II: Separation methods.	Ion exchange chromatography;		Lecture with ICT Tools
24	04-01-2024	4	Module 2	Unit II: Separation methods.	Solvent Extraction, Numerical problems.		Lecture with ICT Tools
25	05-01-2024	6	Module 2	Unit II: Separation methods.	Solvent Extraction, Numerical problems.		Lecture with ICT Tools
26	11-01-2024	4	Module 2	Seminar	Seminar	Seminar	Online Resources
27	12-01-2024	6	Module 1	Revision/ Remedial	Revision/ Remedial		Classroom activity
28	18-01-2024	4	Module 2	Revision/ Remedial	Revision/ Remedial		Online Resources
29	19-01-2024	6	Module 1	Revision/ Remedial	.Revision/ Remedial		Online Resources
30	25-01-2024	4	Module 2	.Revision/ Remedial	Revision/ Remedial		Classroom assessment

SLOW LEARNER ANALYSIS

First Internal - 16th Nov 2023			
Test based on assessment : Internal 1			
STUDENTS DETAILS WITH MARK PERCENTAGE BETWEEN 0% AND 50%			
Roll Number	Register Number	Student Name	Attendance Status
U03MB22S0113K	U03MB22S0113	SUSHMITHA V	Present
Remedial Action	Date Of Action	Effectiveness of Remedial Action	
Made the students to learn important questions by revision and by question answer sessions.	21/02/2024	Good	
Made them to write assignment for the important questions.	22/11/2023	Good	

INTERNAL MARK SPLIT UP

Sl.No	Register No	Student Name	FI	ASS	ATT	MOD	SEM	QUIZ	TOTAL MARKS	EXTRA MARKS	GRAND TOTAL
1	U03MB22S0041	NIVETHA I	10	5	5	9	5	3	37	0	37
2	U03MB22S0071	CHANDANA T G	9	5	5	8	5	4	36	0	36
3	U03MB22S0113	SUSHMITHA V	5	5	5	6	5	5	31	0	31

FACULTY TIMETABLE

Day	hour 1	hour 2	hour 3	hour 4	hour 5	hour 6	hour 7	hour 8
Monday	-	-	CHE DCS 5P - CHEMISTRY 5 PRACTICAL NEP	-	-	FSDC2S - Environmental Studies	-	CHE DCS 5P - CHEMISTRY 5 PRACTICAL NEP
Tuesday	BSC I SEM B AECC	CHE DSC 5T - CHEMISTRY 5 THEORY	-	BBA# 5.7# - EMPLOYABILITY SKILLS	-	-	CHE DCS 5P - CHEMISTRY 5 PRACTICAL NEP	-
Wednesday	-	-	-	CHE DSC 5T - CHEMISTRY 5 THEORY	-	BBA# 5.7# - EMPLOYABILITY SKILLS	-	-
Thursday	-	-	-	DSC-3 - Analytical and Organic chemistyr II	CHE DSC 5T - CHEMISTRY 5 THEORY	ECO OE 3 - RURAL ECONOMICS	CHE DSC 5T - CHEMISTRY 5 THEORY	-
Friday	-	CA-C13T - Python Programming	FSDC2S - Environmental Studies	BSC I SEM B AECC	-	DSC-3 - Analytical and Organic chemistyr II	-	-
Saturday	-	-	-	BBA# 5.7# - EMPLOYABILITY SKILLS	-	-	CHE DSC 5T - CHEMISTRY 5 THEORY	-

STUDENT LIST

Sl.No	Roll No	Admission No	Register No	Student Name
1	U03MB22S0041TA	SFS22230565	U03MB22S0041	NIVETHA I
2	U03MB22S0071K	SFS22230126	U03MB22S0071	CHANDANA T G
3	U03MB22S0113K	SFS22230812	U03MB22S0113	SUSHMITHA V

CO-PO MAPPING

PROGRAM: **UG - BSC - B.Sc. (Com Sci-Ele, Com Sci-Maths, Phy-Maths, Che-Maths, Phy-Che)**

CO/PO	CO1	CO2	CO3	CO4	CO5
PO2	MEDIUM		MEDIUM	MEDIUM	
PO3	HIGH	HIGH	HIGH	HIGH	HIGH
PO6	MEDIUM	MEDIUM			
PSO6					MEDIUM

CO LIST

Code	Name	Description
CO1	CO1	Understand the importance of fundamental law and validation parameters in chemical analysis and the requirement for chemical analysis by paper, thin layer and column chromatography.
CO2	CO2	Apply solvent extraction method for quantitative determination of metal ions in different samples and the ion-exchange chromatography for domestic and industrial applications and spectrophotometric, nephelometric and turbidometric methods to determine different analytes in different matrices (water and real samples).
CO3	CO3	Explain mechanism for a given reaction and the importance of Stereochemistry in predicting the structure and property of organic molecules
CO4	CO4	Predict the probable mechanism for a reaction. Explain the importance of reaction intermediates, its role and techniques of generating such intermedia
CO5	CO5	Predict the configuration of an organic molecule, identify the chiral molecules and predict its actual configuration



ST FRANCIS DE SALES COLLEGE

Electronic City Post, Bengaluru - 560100

COURSE REPORT

ON

MECHANICS AND PROPERTIES OF MATTER (PHY DSCT1)

[Semester(S1) UG - BSC - B.Sc. Maths - Physics]

BY

MRS SONIMA MOHAN

PROPOSED PLAN

Faculty : MRS SONIMA MOHAN

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
1	14-08-2023	2	Module 1	System of units (CGS and SI), measurement of length, mass and time,	System of units (CGS and SI), measurement of length, mass and time,	Lecture	Lecture
2	16-08-2023	4	Module 1	dimensions of physical quantities	dimensions of physical quantities	Lecture	Lecture
3	19-08-2023	2	Module 1	dimensions of physical quantities, dimensional formulae. Minimum deviation, errors.	dimensions of physical quantities, dimensional formulae. Minimum deviation, errors.	Lecture	Lecture
4	21-08-2023	4	Module 1	Work and energy, Conservation of linear momentum,	Work and energy, Conservation of linear momentum,	Activity	Lecture
5	22-08-2023	2	Module 1	Conservation of energy with examples, Motion of rockets	Conservation of energy with examples, Motion of rockets	Problem Based Learning	Classroom assessment
6	23-08-2023	3	Module 1	Constancy of speed of light. Postulates of Special Theory of Relativity.	Constancy of speed of light. Postulates of Special Theory of Relativity.	Collaborative Learning	Classroom assessment
7	26-08-2023	2	Module 1	Length contraction. Time dilation. Relativistic addition of velocities.	Length contraction. Time dilation. Relativistic addition of velocities.	Problem Based Learning	Lecture
8	28-08-2023	4	Module 2	Newton's Laws of motion, Dynamics of single particle and a system of particles,	Newton's Laws of motion, Dynamics of single particle and a system of particles,	Self Directed Learning	Classroom activity
9	29-08-2023	2	Module 2	Centre of mass. Rotational motion about an axis,	Centre of mass. Rotational motion about an axis,	Predict-Observe-Explain	Classroom activity
10	30-08-2023	4	Module 2	Relation between torque and angular momentum, Rotational energy, Moment of inertia	Relation between torque and angular momentum, Rotational energy, Moment of inertia	Experiential Learning	Classroom activity
11	02-09-2023	2	Module 2	M.I of a rectangular lamina and solid cylinders,	M.I of a rectangular lamina and solid cylinders,	Lecture	Lecture

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
12	25-09-2023	4	Module 2	Flywheel, Theory of compound pendulum and determination of g.	Flywheel, Theory of compound pendulum and determination of g.	Problem Based Learning	Classroom assessment
13	27-09-2023	4	Module 2	Law of Gravitation. Motion of a particle in a central force field	Law of Gravitation. Motion of a particle in a central force field	Problem Based Learning	Classroom activity
14	29-09-2023	1	Module 2	Kepler's laws	Kepler's laws	Collaborative Learning	Lecture
15	30-09-2023	2	Module 2	Satellite in a circular orbit.	Satellite in a circular orbit.	Predict-Observe-Explain	Classroom assessment
16	03-10-2023	2	Module 3	Hooke's law - Stress-strain diagram	Hooke's law - Stress-strain diagram	Predict-Observe-Explain	Classroom activity
17	05-10-2023	2	Module 3	elastic moduli-relation between elastic constants,	elastic moduli-relation between elastic constants,	Problem Based Learning	Lecture
18	05-10-2023	4	Module 3	Poisson's Ratio-expression for Poisson's ratio in terms of elastic constants.	Poisson's Ratio-expression for Poisson's ratio in terms of elastic constants.	Problem Based Learning	Lecture
19	07-10-2023	2	Module 3	Work done in stretching and work done in twisting a wire-Twisting couple on a cylinder.	Work done in stretching and work done in twisting a wire-Twisting couple on a cylinder.	Self Directed Learning	Lecture
20	07-10-2023	5	Module 3	Beams, bending of beams	Beams, bending of beams	Group Discussion	Classroom assessment
21	09-10-2023	4	Module 3	expression for bending moment, theory of single cantilever.	expression for bending moment, theory of single cantilever.	Group Discussion	Classroom activity
22	10-10-2023	2	Module 3	Torsional pendulum, expression for time-period of torsional oscillations,	Torsional pendulum, expression for time-period of torsional oscillations,	Group Discussion	Classroom assessment
23	11-10-2023	4	Module 3	determination of rigidity modulus	determination of rigidity modulus	Lecture	Lecture
24	16-10-2023	4	Module 3	moment of inertia, determination of q , η and σ by Searle's double bar with necessary theory.	moment of inertia, determination of q , η and σ by Searle's double bar with necessary theory.	Lecture	Lecture
25	17-10-2023	2	Module 4	Definition of surface tension. Surface energy	Definition of surface tension. Surface energy	Group Discussion	Classroom activity
26	18-10-2023	4	Module 4	relation between surface tension and surface energy	relation between surface tension and surface energy	Problem Based Learning	Lecture
27	31-10-2023	5	Module 4	pressure difference across curved surface example	pressure difference across curved surface example	Problem Based Learning	Classroom assessment

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
28	31-10-2023	6	Module 4	excess pressure inside spherical liquid drop, angle of contact.	excess pressure inside spherical liquid drop, angle of contact.	Collaborative Learning	Classroom activity
29	06-11-2023	4	Module 4	Streamline flow, turbulent flow	Streamline flow, turbulent flow	Self Directed Learning	Classroom assessment
30	07-11-2023	2	Module 4	equation of continuity	equation of continuity	Collaborative Learning	Classroom assessment
31	08-11-2023	4	Module 4	determination of coefficient of viscosity by Poissulle's method	determination of coefficient of viscosity by Poissulle's method	Problem Based Learning	Lecture
32	15-11-2023	4	Module 4	Stoke's method. Problems	Stoke's method. Problems	Problem Based Learning	Classroom assessment
33	17-11-2023	2	Module 1	System of units (CGS and SI), measurement of length, mass and time	System of units (CGS and SI), measurement of length, mass and time	Collaborative Learning	Tutorial
34	18-11-2023	2	Module 1	dimensions of physical quantities, dimensional formulae. Minimum deviation, errors.	dimensions of physical quantities, dimensional formulae. Minimum deviation, errors.	Self Directed Learning	Tutorial
35	20-11-2023	4	Module 1	Work and energy, Conservation of linear momentum,	Work and energy, Conservation of linear momentum,	Problem Based Learning	Tutorial
36	21-11-2023	2	Module 1	Conservation of energy with examples, Motion of rockets	Conservation of energy with examples, Motion of rockets	Problem Based Learning	Tutorial
37	22-11-2023	4	Module 1	Constancy of speed of light. Postulates of Special Theory of Relativity	Constancy of speed of light. Postulates of Special Theory of Relativity	Problem Based Learning	Tutorial
38	25-11-2023	2	Module 1	Length contraction. Time dilation. Relativistic addition of velocities.	Length contraction. Time dilation. Relativistic addition of velocities.	Problem Based Learning	Classroom assessment
39	27-11-2023	4	Module 2	Newton's Laws of motion, Dynamics of single particle and a system of particles, Centre of mass.	Newton's Laws of motion, Dynamics of single particle and a system of particles, Centre of mass.	Problem Based Learning	Classroom assessment
40	29-11-2023	4	Module 2	Rotational motion about an axis, Relation between torque and angular momentum,	Rotational motion about an axis, Relation between torque and angular momentum,	Lecture	Lecture
41	02-12-2023	1	Module 2	Rotational energy, Moment of inertia (M.I): M.I of a rectangular lamina and solid cylinders,	Rotational energy, Moment of inertia (M.I): M.I of a rectangular lamina and solid cylinders,	Group Discussion	Classroom activity
42	04-12-2023	4	Module 2	Flywheel, Theory of compound pendulum and determination of g.	Flywheel, Theory of compound pendulum and determination of g.	Experiential Learning	Classroom activity

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
43	05-12-2023	2	Module 2	Law of Gravitation. Motion of a particle in a central force field	Law of Gravitation. Motion of a particle in a central force field	Self Directed Learning	Tutorial
44	06-12-2023	4	Module 2	angular momentum is conserved, areal velocity is constant). Kepler's laws (statements). Satellite in a circular orbit.	angular momentum is conserved, areal velocity is constant). Kepler's laws (statements). Satellite in a circular orbit.	Problem Based Learning	Tutorial
45	11-12-2023	4	Module 3	Hooke's law - Stress-strain diagram, elastic moduli-relation between elastic constants,	Hooke's law - Stress-strain diagram, elastic moduli-relation between elastic constants,	Problem Based Learning	Tutorial
46	12-12-2023	2	Module 3	Poisson's Ratio-expression for Poisson's ratio in terms of elastic constants.	Poisson's Ratio-expression for Poisson's ratio in terms of elastic constants.	Collaborative Learning	Classroom assessment
47	13-12-2023	4	Module 3	Work done in stretching and work done in twisting a wire-Twisting couple on a cylinder.	Work done in stretching and work done in twisting a wire-Twisting couple on a cylinder.	Experiential Learning	Tutorial
48	14-12-2023	2	Module 3	Beams, bending of beams, expression for bending moment, theory of single cantilever. Torsional pendulum,	Beams, bending of beams, expression for bending moment, theory of single cantilever. Torsional pendulum,	Tutorial	Tutorial
49	18-12-2023	1	Module 3	expression for time-period of torsional oscillations, determination of rigidity modulus	expression for time-period of torsional oscillations, determination of rigidity modulus	Tutorial	Tutorial
50	18-12-2023	2	Module 3	moment of inertia, determination of q , η and σ by Searle's double bar with necessary theory.	moment of inertia, determination of q , η and σ by Searle's double bar with necessary theory.	Tutorial	Tutorial
51	18-12-2023	3	Module 3	moment of inertia, determination of q , η and σ by Searle's double bar with necessary theory.	moment of inertia, determination of q , η and σ by Searle's double bar with necessary theory.	Self Directed Learning	Tutorial
52	02-01-2024	2	Module 4	Definition of surface tension. Surface energy	Definition of surface tension. Surface energy	Group Discussion	Lecture
53	03-01-2024	4	Module 4	relation between surface tension and surface energy, pressure difference across curved surface example,	relation between surface tension and surface energy, pressure difference across curved surface example,	Group Discussion	Lecture
54	06-01-2024	2	Module 4	relation between surface tension and surface energy, pressure difference across curved surface example,	relation between surface tension and surface energy, pressure difference across curved surface example,	Experiential Learning	Classroom assessment
55	08-01-2024	4	Module 4	excess pressure inside spherical liquid drop, angle of contact.	excess pressure inside spherical liquid drop, angle of contact.	Predict-Observe-Explain	Classroom assessment

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
56	09-01-2024	2	Module 4	Streamline flow, turbulent flow	Streamline flow, turbulent flow	Tutorial	Tutorial
57	10-01-2024	4	Module 3	equation of continuity, determination of coefficient of viscosity by Poissulle's method	equation of continuity, determination of coefficient of viscosity by Poissulle's method	Collaborative Learning	Classroom assessment
58	16-01-2024	2	Module 4	coefficient of viscosity by Poissulle's method, Stoke's method. Problems	coefficient of viscosity by Poissulle's method, Stoke's method. Problems	Collaborative Learning	Classroom activity
59	17-01-2024	4	Module 4	coefficient of viscosity by Poissulle's method, Stoke's method. Problems	coefficient of viscosity by Poissulle's method, Stoke's method. Problems	Collaborative Learning	Classroom activity
60	20-01-2024	2	Module 1	System of units (CGS and SI), measurement of length, mass and time, dimensions of physical quantities, dimensional formulae. Minimum deviation, errors.	System of units (CGS and SI), measurement of length, mass and time, dimensions of physical quantities, dimensional formulae. Minimum deviation, errors.	Self Directed Learning	Tutorial
61	22-01-2024	4	Module 1	Work and energy, Conservation of linear momentum, Conservation of energy with examples, Motion of rockets	Work and energy, Conservation of linear momentum, Conservation of energy with examples, Motion of rockets	Tutorial	Tutorial
62	23-01-2024	2	Module 1	Constancy of speed of light. Postulates of Special Theory of Relativity. Length contraction. Time dilation. Relativistic addition of velocities.	Constancy of speed of light. Postulates of Special Theory of Relativity. Length contraction. Time dilation. Relativistic addition of velocities.	Tutorial	Tutorial
63	24-01-2024	4	Module 2	Newton's Laws of motion, Dynamics of single particle and a system of particles, Centre of mass.	Newton's Laws of motion, Dynamics of single particle and a system of particles, Centre of mass.	Tutorial	Remedial
64	27-01-2024	1	Module 2	Rotational motion about an axis, Relation between torque and angular momentum, Rotational energy, Moment of inertia (M.I): M.I of a rectangular lamina and solid cylinders, Flywheel, Theory of compound pendulum and determination of g.	Rotational motion about an axis, Relation between torque and angular momentum, Rotational energy, Moment of inertia (M.I): M.I of a rectangular lamina and solid cylinders, Flywheel, Theory of compound pendulum and determination of g.	Tutorial	Remedial
65	29-01-2024	1	Module 2	Law of Gravitation. Motion of a particle in a central force field (motion is in a plane, angular momentum is conserved, areal velocity is constant). Kepler's laws (statements). Satellite in a circular orbit.	Law of Gravitation. Motion of a particle in a central force field (motion is in a plane, angular momentum is conserved, areal velocity is constant). Kepler's laws (statements). Satellite in a circular orbit.	Collaborative Learning	Remedial

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
66	30-01-2024	1	Module 2	Hooke's law - Stress-strain diagram, elastic moduli-relation between elastic constants, Poisson's Ratio-expression for Poisson's ratio in terms of elastic constants. Work done in stretching and work done in twisting a wire-Twisting couple on a cylinder. B	Hooke's law - Stress-strain diagram, elastic moduli-relation between elastic constants, Poisson's Ratio-expression for Poisson's ratio in terms of elastic constants. Work done in stretching and work done in twisting a wire-Twisting couple on a cylinder. Beams, bending of beams, expression for bending moment, theory of single cantilever.	Collaborative Learning	Remedial
67	31-01-2024	1	Module 3	Torsional pendulum, expression for time-period of torsional oscillations, determination of rigidity modulus (static and dynamic methods) and moment of inertia, determination of q , η and σ by Searle's double bar with necessary theory.	Torsional pendulum, expression for time-period of torsional oscillations, determination of rigidity modulus (static and dynamic methods) and moment of inertia, determination of q , η and σ by Searle's double bar with necessary theory.	Collaborative Learning	Remedial

ACTUAL PLAN**Faculty : MRS SONIMA MOHAN**

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
1	14-08-2023	4	Module 1	Units and measurements			Lecture
2	16-08-2023	4	Module 1	Units of mass, distance and time			Lecture
3	02-09-2023	2	Module 2	conservation of energy			Lecture
4	25-09-2023	4	Module 1	Length contraction, time dilation			Classroom activity
5	27-09-2023	4	Module 1	length contraction, time dilation, relativistic velocities			Lecture
6	30-09-2023	2	Module 2	Laws of motion			Classroom activity
7	03-10-2023	2	Module 2	Centre of mass			Lecture
8	04-10-2023	4	Module 1	problems			Classroom assessment
9	07-10-2023	2	Module 2	Relativistic velocity, relativistic mass			Lecture
10	09-10-2023	4	Module 2	Torque, Angular momentum, moment of inertia			Lecture
11	10-10-2023	2	Module 2	Parallel and perpendicular axes theorems			Lecture
12	11-10-2023	4	Module 2	Problems solving			Classroom assessment
13	16-10-2023	4	Module 2	Moment of inertia of a solid cylinder			Lecture
14	17-10-2023	2	Module 2	fly wheel, gravitational force, central force			Lecture
15	18-10-2023	4	Module 2	escape velocity, time period of oscillation			Classroom assessment
16	06-11-2023	4	Module 2	escape velocity, orbital velocity, time period			Classroom assessment
17	07-11-2023	2	Module 2	geosynchronous satellites, GPS			Lecture
18	08-11-2023	4	Module 1	Newton's laws and illustrations			Student Presentation
19	15-11-2023	4	Module 3	modulus of elasticity, poisson's ratio, work done in stretching a wire			Lecture
20	18-11-2023	2	Module 4	Single cantilever, surface tension			Lecture
21	20-11-2023	4	Module 4	surface tension			Lecture

#	Date	Hour	Module	Topic Name	Description	Teaching Pedagogy	Mode of Instruction
22	21-11-2023	2	Module 4	surface tension			Lecture
23	28-11-2023	2	Module 4	interfacial tension			Lecture
24	02-12-2023	2	Module 4	viscosity, equation of continuity			Lecture
25	04-12-2023	4	Module 4	viscosity, dimension, velocity expression			Lecture
26	05-12-2023	2	Module 4	stokes law			Lecture

SLOW LEARNER ANALYSIS

Assessment 1 - 2nd Dec 2023		
Test based on assessment : Internal 1		
STUDENTS DETAILS WITH MARK PERCENTAGE BETWEEN 0% AND 15%		
Remedial Action	Date Of Action	Effectiveness of Remedial Action
assessment		student learned the concept and explained

INTERNAL MARK SPLIT UP

Sl.No	Register No	Student Name	FI	ASS	ATT	MOD	SEM	QUIZ	TOTAL MARKS	EXTRA MARKS	GRAND TOTAL
1	U03MB23S0059	NITYANANDA PRABHU M	8	5	5	4	5	5	32	0	32
2	U03MB23S0180	SANDY PUKHRAMBAM	5	5	4	2	5	0	21	0	21

FACULTY TIMETABLE

Day	hour 1	hour 2	hour 3	hour 4	hour 5	hour 6	hour 7	hour 8
Monday	BSC I SEM A AECC	-	-	PHY DSCT1 - MECHANICS AND PROPERTIES OF MATTER	PHY 5T - PHYSICS 5 THEORY NEP	-	-	-
Tuesday	-	PHY DSCT1 - MECHANICS AND PROPERTIES OF MATTER	-	PHY 5T - PHYSICS 5 THEORY NEP	PHY DCSP LAB1 - MECHANICS AND PROPERTIES OF MATTER LAB 1	PHY 5T - PHYSICS 5 THEORY NEP PHY DCSP LAB1 - MECHANICS AND PROPERTIES OF MATTER LAB 1	-	-
Wednesday	BSC I SEM A AECC PHY 5P - PHYSICS 5 PRACTICAL NEP	PHY 5P - PHYSICS 5 PRACTICAL NEP	-	PHY DSCT1 - MECHANICS AND PROPERTIES OF MATTER	-	-	-	-
Thursday	-	-	-	-	-	PHY 5P - PHYSICS 5 PRACTICAL NEP ECO OE 3 - RURAL ECONOMICS	-	-
Friday	PHY DCSP LAB1 - MECHANICS AND PROPERTIES OF MATTER LAB 1	CA-C13T - Python Programming PHY DCSP LAB1 - MECHANICS AND PROPERTIES OF MATTER LAB 1	PHY 5T - PHYSICS 5 THEORY NEP	-	-	-	-	-
Saturday	-	PHY DSCT1 - MECHANICS AND PROPERTIES OF MATTER	PHY 5T - PHYSICS 5 THEORY NEP	-	-	-	-	-

STUDENT LIST

Sl.No	Roll No	Admission No	Register No	Student Name
1	U03MB23S0059K	SFS23240965	U03MB23S0059	NITYANANDA PRABHU M
2	U03MB23S0180H	SFS23241110	U03MB23S0180	SANDY PUKHRAMBAM

CO-PO MAPPINGPROGRAM: **UG - BSC - B.Sc. Maths - Physics**

CO/PO	CO1	CO2	CO3	CO4
PO1	HIGH	HIGH	HIGH	HIGH
PO2	HIGH	HIGH	HIGH	HIGH
PSO1	HIGH	HIGH	HIGH	HIGH
PSO2	HIGH	HIGH	HIGH	HIGH

CO LIST

Code	Name	Description
CO1	CO	Able to find out energy and momentum involved in any reactions based on universal conservation laws.
CO2	CO2	Determination of time dilation and length contraction in relativistic problems.
CO3	CO3	Application of Gravitational force and energy in space science to analyse the planetary and satellite motion.
CO4	CO4	Calculation of twisting couple, bending moment of beams and cantilever which plays a very important role in the construction of buildings.