



People's Education Society's (Mumbai)

Milind College of Science

Nagsenvana, Aurangabad.

DAILY TEACHING NOTE BOOK

2018 - 2019

Department of *Botany*

Name : *Kulthe M. P.*

Mobile No.: *9422201596*

Tel. No. :


Principal
Milind College of Science
Aurangabad

People's Education Society's (Mumbai)

Milind College of Science, Aurangabad

Office Ph. No. 2370856, 2372756

1. Name : KULTHE MUKUND PRABHAKAR

2. Qualification : M.Sc., B.Ed., Ph.D., NET

3. Designation : ASSOCIATE PROFESSOR

4. Department : BOTANY

5. Date of Birth :

6. Home Address :

Phone No.:

Mobile No.:


Principal
Milind College of Science
Aurangabad

PERSONAL TIME - TABLE

Pd. No.	Day/ Time	Std.	MON	TUE	WED	THU	FRI	SAT
1								
2	9:30						TY TH	TY TH
3	10:20							
4	11:10							
5	12:00						TY PRACT	TY PRACT
6	12:50							
7	1:40		SY TH					
8	02:30			TY PRACT	SY PRACT	SY PRACT		
9	03:20							
10	04:10							
11	05:00							
12								


Sign. of Teacher


H.O.D./Supervisor

Principal


Principal
Mind College of Science
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Leave Record Casual Leave

Sr.No.	Date	Sr.No.	Date	Sr.No.	Date	Sr.No.	Date
1	06-07 July 18	4		7		10	
2	02-03 Jan 19	5		8		11	
3	17 Jan 19	6		9		12	

Duty Leave

Sr.No.	Date	Form of Work	Sign. of Authorised Officer	Sr.No.	Date	Form of Work	Sign. of Authorised Officer
1	14/07	Affiliation at JES Jabna		7			
2	12/10	interview at JES Jabna		8			
3	30/01	CAS at university		9			
4	20/03	Election training		10			
5	22/03	Affiliation Committee Asstn		11			
6	25/03	Election Duty		12			

Other Leave

Sr.No.	Date	Reason	Sign. of Authorised Officer	Sr.No.	Date	Reason	Sign. of Authorised Officer
1				4			
2				5			
3				6			

Monthly & Yearly Teaching Plan

Subject: BOTANY Std. RBC 01 Page No. _____

Month & No. of Periods	P- VIII Topics
JUNE - 01 July - 05	Community ecology - frequency, density, life form
August - 04	Community ecology - Biological spectrum Ecosystem - biotic abiotic components food chain
Sept. 03	food web - ecological pyramids - energy flow
Oct - 02	Nitrogen cycle phosphorus cycle
P- XI OCT - 01 NOV. 01	Cycas
Dec. 05	Cycas, Pinus
Jan - 03	Pinus - Gnetum
Feb - 04	Gnetum

Monthly & Yearly Teaching Plan

Subject : _____ Std. _____ Paper No. _____

Month & No. of Periods	Topics
June - 05	cell division - cell cycle, mitosis, Meiosis
July - 05	meiosis, nucleic acids DNA composition
Aug - 08	structure of DNA & RNA. Replication RNA - structure, type function.
Sep - 09	Chromosome morphology Giant chromosome. Chromosomal aberration
Oct - 03	structural - Numerical .
NOV - 03	Mendelism
DEC - 09	Back cross test cross, interaction of genes ^{and step} incomplete dominance codominance, lethal gene, pleiotropy, epistasis, sex-determination
Jan - 07	Sex determination, sex linked inheritance
Feb - 11 08	sex-linked inheritance, structure & function of gene. selection of genetic diseases

DAILY PERFORMANCE REPORT

Subject : _____ Paper : _____ Subject Code : _____

Class	Date	Period	Time	Details of topic Taught	Total No. of Student Present
	15/06/2018				
BSc TY	26/06/2018	II	9 09:30 10:30	Cell cycle	
	27/06/2018				
BSc TY				cell cycle, mitosis	
Details of Co-Curricular and Extra Curricular Activities } _____ _____					


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DAILY PERFORMANCE REPORT							
Class		Date		Period	Time	Details of topic Taught	Score of Exam/Pract
→		28/06/17				Criteria	
		TUE					
→		29/06/17				Python's program Basics	
		SAT					
→		30/06/17		7	1:40	Python - Frequency	
		SAT					
						Sunday	
→		01/07/17		7	1:30	Frequency	
		MON					
→		02/07/17		8	2:30	Pract	
		TUE					
Details of Co-Curricular and Extra Curricular Activities							

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DAILY PERFORMANCE REPORT							
Class		Date		Period	Time	Details of topic Taught	Score of Exam/Pract
		04/07		8	2:30	Pract	
		WED					
→		05/07		8	2:30	Pract	
		THU					
		06/07				CL	
		FRI					
		07/07				CL	
		SAT					
		08/07				Sunday	
		09/07				DEPART	
		MON					
Details of Co-Curricular and Extra Curricular Activities							

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Mild College of Science
Aurangabad

DAILY PERFORMANCE REPORT					
Subject		Page		Subject Code	
Class	Date	Period	Time	Details of topic Taught	100% of class hours
Vy	10/07 WED	8	1:30	func	
Vy	11/07 WED	9	1:30	func	
Vy	12/07 THU	8	1:30	func	
Details of Co-Curricular and Extra Curricular Activities					

Sign of Teacher: _____ R.O.D. / Supervisor / Vice Principal: _____ Principal: *[Signature]*

DAILY PERFORMANCE REPORT					
Subject		Page		Subject Code	
Class	Date	Period	Time	Details of topic Taught	100% of class hours
Vy	15/07 SUN	1	4:30	Re-PVC	
Vy	16/07 MON	5	12:45	func	
	17/07 TUE			CL - 200 I attached His liberty	
	18/07 WED			Sunday	
Vy	16/07 MON	7	1:30	life forms	
Vy	17/07 TUE	8	2:30	func	
Vy	18/07 WED	6	1:30	func	
Details of Co-Curricular and Extra Curricular Activities					

Sign of Teacher: _____ R.O.D. / Supervisor / Vice Principal: _____ Principal: *[Signature]*


Principal
 Milind College of Science
 Aurangabad

DAILY PERFORMANCE REPORT

Subject		Topic		Subject Code	
Date	Period	Time	Details of topic taught	MARKS of Student Present	
17/07/2017	2	1:00	Plant		
17/07/2017	3	1:30	Plant Kingdom		
	5	12:00	Plant		
17/07/2017	2	9:30	Cell & Chemical composition		
	5	12:00	Plant		
17/07			Monday		

Details of Co-Curricular and Extra Curricular Activities

Sign of Teacher

H.O.D. / Supervisor / Vice Principal

Principal

DAILY PERFORMANCE REPORT

Subject		Topic		Subject Code	
Date	Period	Time	Details of topic taught	MARKS of Student Present	
17/07/2017	7	1:40	Life forms		
	8	2:30	Plant		
17/07/2017	2	2:30	Plant		
	8	2:30	Plant		
17/07/2017	4	2:30	Plant		

Details of Co-Curricular and Extra Curricular Activities

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DAILY PERFORMANCE REPORT					
Subject		Paper		Subject Code :	
Class	Date	Period	Time	Details of topic Taught	State of Student Present
TY	27/07 Thu	2 5	4:30 12:40	Workshop of Guck Model Pract	
TY	28/07 Sat	2 5	9:30 12:40	2 part B Jnt Pract	
	29/07			Sunday	
SY	30/07 Mon	7	1-40	Biological specimen	
Details of Co-Curricular and Extra Curricular Activities } _____					

Sign of Teacher

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Principal

DAILY PERFORMANCE REPORT					
Subject		Paper		Subject Code :	
Class	Date	Period	Time	Details of topic Taught	State of Student Present
TY	31/07 Tue	8	2-30	Practical	
SY	01/08 Wed	8	Pract	Pract	
SY	02/08 Thu	2	Pract	Pract	
Details of Co-Curricular and Extra Curricular Activities } _____					

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DAILY PERFORMANCE REPORT					
Subject		Page		Subject Code	
Class	Date	Period	Time	Details of Topic Taught	Number of Student Present
7Y	08/08/20	5	11:30	Reaction of alkali	
				Reaction	
				Reaction of alkali	
10Y	08/08/20	5	12:00	Reaction	
				Reaction	
5Y	08/08/20	7	1:45	Elementary Particles	

Details of Co-Curricular and Extra-Curricular Activities

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DAILY PERFORMANCE REPORT					
Subject		Page		Subject Code	
Class	Date	Period	Time	Details of Topic Taught	Number of Student Present
8Y	08/08/20	6	12:30	Reaction	
5Y	08/08/20	8	1:30	Reaction	
				Reaction	
7Y	10/08/20	5	11:00	Reaction	
				Reaction	
7Y	11/08/20	5	11:00	Reaction	

Details of Co-Curricular and Extra-Curricular Activities

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DAILY PERFORMANCE REPORT					
Subject		Paper		Subject Code	
Class	Date	Period	Time	Details of topic Taught	Marks of Student Present
	12/08			Sunday	
S4	13/08 Mon	7	1-40	Arithmetic factors	
Fu	14/08 Tue	8	2-30	Root	
	15/08 Wed			Arithmetic	
Details of Co-Coordinator and Extra Curricular Activities } _____					

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DAILY PERFORMANCE REPORT					
Subject		Paper		Subject Code	
Class	Date	Period	Time	Details of topic Taught	Marks of Student Present
S4	16/08 Thu	8	2-30	Root	
	17/08 Fri			Arithmetic	
TY	18/08 Sat	2 5	4-50 12-30	Area Area & function Root	
	19/08			Sunday	
Details of Co-Coordinator and Extra Curricular Activities } _____					



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Milind College of Science
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DAILY PERFORMANCE REPORT					
Subject		Topic		Subject Code	
Class	Date	Period	Time	Details of topic Taught	Sl. No. of Student Present
Sy	20/08 Tue	7	1:40	Food chain	
F4	20/08 Tue	9	2:50	Practical	
	22/08 Wed			वर्षा ऋतु	
	28/08 Tue			विद्युत आवेश ऋतु	
Details of Co-Curricular and Extra-Curricular Activities } _____					

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DAILY PERFORMANCE REPORT					
Subject		Topic		Subject Code	
Class	Date	Period	Time	Details of topic Taught	Sl. No. of Student Present
7y	20/08 Tue	2 5	9:00 12:00	Chromosome Diagram Pract	
7y	20/08 Tue	2 5	9:00 12:00	Chromosome Morphology Pract	
	20/08			Sunday	
Sy	20/08 Tue	7	1:40	Food chain	
Details of Co-Curricular and Extra-Curricular Activities } _____					

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DAILY PERFORMANCE REPORT					
Subject		Topic		Subject Code	
Class	Date	Period	Time	Details of topic Taught	Total No. of Student Present
TY	28/08 Tue	9	1:10	Rept.	
SY	29/08 Wed	8	2:30	Rept.	
SY	30/08 Thu	8	2:30	Rept.	
Details of Co-Curricular and Extra Curricular Activities					

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DAILY PERFORMANCE REPORT					
Subject		Paper		Subject Code	
Class	Date	Period	Time	Details of topic Taught	Total No. of Student Present
TY	31/08 Fri	2 5	9:30 12:30	Volume test Rept.	
TY	01/09 Sat	2 5	9:30 12:30	Structure and Rept.	
	02/09			Sunday	
				1-1-1	
SY	03/09 Sun	7	1:40	food web	
Details of Co-Curricular and Extra Curricular Activities					

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People's Education Society's (Mumbai)

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Nagsenvana, Aurangabad.

DAILY TEACHING NOTE BOOK

2018 - 2019

Department of Biotechnology

Name : Asmita Dalvi

Mobile No.: 9545656767

Tel. No.: _____

People's Education Society's (Mumbai)
Milind College of Science, Aurangabad

Office Ph. No. 2370856, 2372756

1. Name : A. Smita Dalvi

2. Qualification : M.Sc. Biotechnology

3. Designation : Asst. Professor

4. Department : Biotechnology

5. Date of Birth : 2nd sept. 1990

6. Home Address : Plot No. 45, Kashalkhara

Colony, Near Sakhasa

Mangal Karyalaya side-N-S. A'bad

Phone No.:

Mobile No: 9545656767


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Monthly & Yearly Teaching Plan	
Subject: _____	Std. _____ Paper No. _____
Month & No. of Periods	Topics
SEMESTER I, III, V	

DAILY PERFORMANCE REPORT					
Subject: _____		Year: _____		Subject Code: _____	
Class	Date	Period	Time	Details of topic taught	Total No. of Student Present
B.Sc. III ₁	10/7/19		12:00-12:50	Concept of +E action with reference to pH - definition. [PGR]	5
	11/7/19		12:00-12:50	DNA with its structure & properties, essential co-factors etc. [PGR]	7
	14/7/19		12:00-12:50	Mode of action of P-E. + its specificity. Limitations is appl ⁿ . [PGR]	5
B.Sc. I ₂	13/7/19		10:20-11:10	Basic, principle & working of pH meter. [IIT]	10
B.Sc. I ₂	15/7/19		11:10-12:50	Innate Immunity [Immune]	9
Details of Co-Curricular and Extra Curricular Activities: _____					

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DAILY PERFORMANCE REPORT					
Subject		Topic		Subject Code	
Class	Date	Period	Time	Details of topic taught	Number of Student Present
B.Sc 1 st yr	20/11/18	10:30		Description & working of Auerbach base (1 hr)	11
		11:30			
B.Sc 2 nd yr		11:30		Kawasaki community (2 hr)	9
		12:00			
B.Sc 2 nd yr	20/11/18	10:30		Principle & working of Laminar Air flow (2 hr)	10
		11:30			
B.Sc 2 nd yr		11:30		Kawasaki community (2 hr)	10
		12:00			
Details of Co-Cordinator and Extra Curricular Activities					

[Signature]
Sign of Teacher

[Signature]
H.O.D. / Supervisor / Vice Principal

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DAILY PERFORMANCE REPORT					
Subject		Topic		Subject Code	
Class	Date	Period	Time	Details of topic taught	Number of Student Present
B.Sc 1 st yr	20/11/18	12:00		DNA methylating enzymes & associated to their abundance, function & mechanism (1 hr)	7
		12:30			
B.Sc 1 st yr	20/11/18	12:00		DNA methylating enzymes function and applications (1 hr)	5
		12:30			
B.Sc 1 st yr	20/11/18	11:00		Exonucleases & Endonucleases (1 hr)	6
		12:00			
Details of Co-Cordinator and Extra Curricular Activities					

[Signature]
Sign of Teacher

[Signature]
H.O.D. / Supervisor / Vice Principal

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[Signature]
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People's Education Society's (Mumbai)

Milind College of Science

Nagsenvana, Aurangabad - 431 002

DAILY TEACHING NOTE BOOK

2018 -2019

Department of PHYSICS

Name : Dr. D.V. Kurmude

Mobile No: 9175385372

Tel No. _____


Principal
Milind College of Science
Aurangabad

People's Education Society's (Mumbai)
Milind College of Science, Aurangabad

Office Ph. No. 2370856, 2372756

1. Name : Dr. D.V. Karmude
2. Qualification : M.Sc. Ph.D.
3. Designation : Associate Prof. & Head.
4. Department : physics
5. Date of Birth : 18/10/1967
6. Home Address : A.2, Sai Vihar,
Khadkeshwar,
Aurangabad.

Phone No.:

Mobile No.: 9175385372


Principal
Milind College of Science
Aurangabad

PERSONAL TIME - TABLE

Pd. No.	Day/ Time	MON	TUE	WED	THU	FRI	SAT
1	10-20	TY (th)	TY (th)	TY (th)			
2	11-10						
3	12-00						
4	12-50	↑	↑		FY (th)	FY (th)	FY (th)
5	01-40			TY (th)	TY (th)		
6	02-30	↓	↓				
7	03-20						
8	04-10	FY (pr)			↓		
9	05-00					SY (pr)	
10							
11							
12							


Sign. of Teacher


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Monthly & Yearly Teaching Plan

Subject : Physics Std. TY Paper No. XVI

Month & No. of Periods	Topics
July 18	<u>Electrodynamics. Paper XVI</u> <u>Ch1 Electrostatics:</u> Introduction, Electric field lines, Gauss Law. The divergence of curl. Applications of Gauss. i) Sphere ii) wire iii) plane. Poisson's & Laplace's equations Uniqueness Theorems.
Aug 18	<u>Ch2 Time Varying fields.</u> Faraday's Law of electromagnetic Induction, Lenz's Law, Self induction, mutual induction, equation of continuity, Maxwell's displacement current, Maxwell's equations.

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TEACHING REPORT

Subject : _____ Paper : _____

Class	Date	Time	Details of topic Taught
	Jan 19		3 <u>Diffraction</u> : Introduction, diffraction at a thin wire, Fraunhofer diffraction, at double slit, plane transmission grating. Determination of wavelength (normal incidence) RP of optical instruments; grating.
	Feb 19		④ <u>Polarization</u> : — Introduction, Malus' law, double refraction, Huygen's theory of double refraction in uniaxial crystal, Nicol prism. Optical Activity, specific rotation. polarimeter. Specific rotation of sugar solution.

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TEACHING REPORT

Subject : Physics Paper : Classical Electrodynamics

Class	Date	Time	Details of topic Taught
T.Y.	16/07/18	10-20	Introduction to paper Discussion of syllabus. Marking scheme, Question paper pattern.
	17/07	10-20	<u>Ch 1: Electrostatics</u> . Electric field. Force due to charge. System of charges. Separation vector. Coordinate system. etc.
	18/07	10-20	Electric field lines. Properties of electric field lines. Electric flux. Definition. Expression for it. Concept of surface element. etc.
	23/07	10-20	Gauss Law. Statements. Proof of Gauss law. Integral & differential form of Gauss law & it's derivations.

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TEACHING REPORT			
Subject		Topic	
Class	Date	Time	Details of topic taught
	24/07	10-20	
	25/07	10-20	Divergence of electric field (E). Curl of E (introduction)
	26/07	10-20	Curl of electric field: line integral, surface integral, Gauss theorem Curl of field due to static charges
	31/07	10-20	(in part of 01/08, in 2nd part) Application Gauss law, to field due to charged cylinder of infinite length & λ as charge per unit length.

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TEACHING REPORT			
Subject		Topic	
Class	Date	Time	Details of topic taught
01/08	01/08	10-20	Application of Gauss law to field due to charged plane. Gauss's eqn. (Gauss's law)
01/08	01/08	10-20	Application of Gauss law continued. Poisson's & Laplace equations. Uniqueness theorem. First and second statements & proof
		12-50	potential electric constant ϵ_0
01/08	01/08	10-20	Ch. 2: Time varying fields Electromagnetic induction Faradays law, Lenz law Self inductance & mutual inductance of Faraday's law

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TEACHING REPORT

Subject : Physics

Paper : Mechanics, Properties of Matter

Class	Date	Time	Details of topic Taught	found.
F.Y.	21/07	12-50	Introduction to syllabus. Question paper patterns. etc.	
	26/07	12-50	<u>Ch 1: Mechanics</u> :- Compound pendulum. Expression for time period of Compound pendulum.	
	02/08	12-50	Centre of oscillation, Centre of suspension. Interchangeability of centre of suspension and oscillation.	
	03/08	12-50	Kater's pendulum. Description. Expression for time period. Determination of acceleration due to gravity.	


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TEACHING REPORT			
Subject		Paper	
Date	Class	Time	Details of topic Taught
4/18	FY	12-50	Newton's law of gravitation, field, potential. Gravitational potential of mass m . Gravitational potential & field due to spherical shell. (First part)
10/18	FY	12-50	Gravitational field & potential due to spherical shell, at a point inside of the shell and at a point on the surface of shell.
11/18	FY	12-50	Gravitational field and potential due solid sphere. at different point (outside, on surface & inside the sphere).

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H.O.D./Supervisor

Principal

TEACHING REPORT			
Subject		Paper	
Date	Class	Time	Details of topic Taught
16/18	FY	12-50	Field and potential due to solid sphere at point inside the sphere.
17/18	-	-	(Patri Holiday)
18/18	FY	12-50	Ch 2: Electricity - Introduction to elasticity of material bodies. Hooke's Law etc..
23/18		12-50	University foundation day (Holiday)
24/18		12-50	Twisting couple acting on a cylinder or rod. Twisting couple permit twist.

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[Signature]
H.O.D./Supervisor

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People's Education Society's (Mumbai)

Milind College of Science

Nagsenvana, Aurangabad.

DAILY TEACHING NOTE BOOK

2018 - 2019

Department of CHEMISTRY

Name : DR S. D. RATHOD

Mobile No.: 9404083904

Tel. No.: _____


Principal
Milind College of Science
Aurangabad

People's Education Society's (Mumbai)
Milind College of Science, Aurangabad

Office Ph. No. 2370856, 2372756

1. Name : DR. S. D. RATHOD
2. Qualification : M. Sc. Ph. D.
3. Designation : Associate Professor (In Charge Principal)
4. Department : Chemistry
5. Date of Birth : 03-01-1966
6. Home Address : D/1, Samyak Arcade,
Cannught Place, Town Centre,
Aurangabad.
- Phone No.: 9404083904
- Mobile No.:


Principal
Milind College of Science
Aurangabad

2018-2019

PERSONAL TIME - TABLE

Pt. No.	Day/Time	Std.	MON	TUE	WED	THU	FRI	SAT
1	8:40							
2	9:30							
3	10:20							
4	11:10							
5	12:00		B.Sc. 1 st Y. Practical.		B.Sc. 1 st Y. Theory	B.Sc. 1 st Y. Theory		B.Sc. 1 st Y. Practical
6	12:50		-do-		B.Sc. 2 nd Y. Theory	B.Sc. 2 nd Y. Theory		-do-
7	1:40		-do-					-do-
8	2:30		-do-					-do-
9	3:20			3. Y. Practical.			3. Y. Practical	
10	4:10			-do-			-do-	
11	5:00			-do-			-do-	
12	5:50			-do-			-do-	

[Signature]
Sign. of Teacher

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2018-2019

Monthly & Yearly Teaching Plan	
Subject : <u>Physical Chemistry</u> , Std. <u>Second year</u> Paper No. <u>VIII</u>	
Month & No. of Periods	Topics
July - 2018 (08)	B.Sc. 2nd year Physical Chemistry
August - 2018 (07)	1) Thermodynamics - I.
September (06)	Definition of thermodynamic terms system, surrounding and types of system. intensive and extensive properties. Thermodynamic process concept of heat and work. work done in reversible and irreversible process. Concept of maximum work
October (04)	Numerical problems.
Extra classes (08)	Heat capacity: Heat capacities at constant volumes, pressure and their relationship. Calculation of w , q , dE and dH for the expansion of ideal gases under isothermal and adiabatic conditions for reversible process. Numerical problems. Hess's Law of heat summation and its application.

2018-2019

Monthly & Yearly Teaching Plan	
Subject: <u>Physical Chemistry</u> Std. <u>Second year</u> Paper No. <u>VIII</u>	
Month & No. of Periods	Topics
	<p>25 Thermodynamics II.</p> <p>Second Law & Thermodynamics.</p> <p>Need for the law, to derive statement of the law. Carnot Cycle and its efficiency.</p> <p>Numerical problems. Carnot theorem. Concept of entropy.</p> <p>Defining property of equilibrium. Entropy as state function. Entropy change in physical change. Entropy as criteria of spontaneity and equilibrium. Entropy change in ideal gases, liquids and solids. Function. Gibbs function and its Relativity function (G). A useful as a criteria for thermodynamic equilibrium and spontaneity. Their advantage over entropy change. Van der Waals V_m vs T.</p>

2018-2019

Monthly & Yearly Teaching Plan	
Subject: <u>Physical Chemistry</u> Std. <u>Second year</u> Paper No. <u>VIII</u>	
Month & No. of Periods	Topics
	<p>3. Chemical Equilibrium</p> <p>Equilibrium constant and free energy. Thermodynamics derivation of law of mass action. Le Chatelier's principle. Reaction quotient and Reaction function. Clapeyron equation. Clausius-Clapeyron equation and its application.</p>


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2018-2019

Monthly & Yearly Teaching Plan	
Subject: <u>Physical Chemistry</u> Page No. <u>2</u>	
Month & No. of Periods	Topics
Dec-2018 (25)	Basic First Year 9 Mathematical concepts Logarithms, relative error, significant figures, propagation of error, differentiation of functions like x^2, x^n, e^x , sine and cosine functions and minima, partial derivatives.
January-2019 (25)	
February-2019 (25)	
60 or classes (6)	27 Classical states • Postulates of kinetic theory of gases • Kinetic gas equation • Derivation of gas laws (Boyle's law, Charles law, Avogadro's law, Dalton's law of partial pressures) • Derivation of $p \propto \rho T$ and $p \propto \frac{1}{V}$ • Vander Waal's equation of state • Critical parameters • P-V diagram of real gases.

2018-2019

Monthly & Yearly Teaching Plan	
Subject: <u>Physical Chemistry</u> Page No. <u>3</u>	
Month & No. of Periods	Topics
	3 Chemical kinetics and catalysis General reaction and its rate Rate of reaction factors affecting rate of reaction, concentration, temperature, pressure, solvent, light. • Order, molecularity, dependence of rate constant on temperature and activation energy. • Arrhenius equation, pre-exponential factor, effect of temperature on rate of reaction, maximum rate. • Catalyst & catalytic energy. • Catalysis • Homogeneous and heterogeneous catalysis, comparison of homogeneous and heterogeneous catalysis. • Enzyme catalysis and its application.
	4 Equilibrium States • Concentration based, definition of equilibrium constant, units, rules and uses. • Le Chatelier's principle, standard state, K_p and K_c relationship, K_p and K_c relationship.

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2022-2023

Monthly & Yearly Teaching Plan	
Subject: <u>Physical Chemistry</u> <u>Std. First year</u> Page No. <u>11</u>	
Month & No. of Periods	Topics
	<p>5. <u>Solid State</u></p> <ul style="list-style-type: none"> Types of solids, Amorphous crystalline and difference between them. Miller Index Units of crystallography, Plan of crystal, of interfacial angles (law of reflection of indices), law of symmetry symmetry elements in crystals crystal structures, crystals Derivation of Bragg equation <p>6. <u>Colloidal state</u></p> <ul style="list-style-type: none"> Definition of colloids, classification of col. colloids in liquids and properties of col. stability of coloids, coagulation Hardy-Schulze law Liquids or L-ppts (colloids) types of coloids in suspension Liquid in solids (gels) - classification, properties and preparation, general applications

DAILY PERFORMANCE REPORT					
E.D. <u>2022-2023</u> <u>Subject: Physical Chemistry</u> <u>Std. First year</u> <u>2022</u>					
Subject		Page		Subject Code	
Date	Date	Period	Time	Details of topic Taught	Work of class/Prac
B.T.	20/10			Introduction & syllabus	
T.Y.	20/10		1:00	Analysis (Law of conservation of mass)	
Prac.					
B.T.	20/10			Introduction of crystallography	
S.Y.	20/10		2:00	Miller index, law of reflection, of interfacial angles	
Prac.				Miller index and interfacial angles	
B.T.	20/10			Introduction of symmetry	
S.Y.	20/10		4:00	Miller index, law of reflection, of interfacial angles	
Prac.				Miller index and interfacial angles	
B.T.	20/10			Introduction of crystallography	
S.Y.	20/10		2:00	Miller index, law of reflection, of interfacial angles	
Prac.				Miller index and interfacial angles	
B.T.	20/10			Introduction of crystallography	
T.Y.	20/10		2:00	Analysis (Law of conservation of mass)	
Prac.					

Details of Co-Curricular and Extra Curricular Activities

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DAILY PERFORMANCE REPORT					
Class: B.Sc. I, II & III year					
Page: _____ Subject Code: _____					
Class	Date	Period	Time	Details of topic Taught	Topic of Student/Pract
B.Sc. I.Y. Pract	14/07		12:00	Inorganic qualitative analysis (semi-micro)	
B.Y. Pract	14/07		3:20	Experimental work calculation and graph	
B.Y. Th.	14/07		12:00	Intensive and extensive properties its examples.	
B.Y. Th.	15/07		12:00	Thermodynamic process (concept of heat and work)	
B.Y. Pract	15/07		3:20	Experimental work graph and calculation	
T.Y. Pract	14/07		12:00	Inorganic qualitative analysis (semi-micro)	
Details of Co-Curricular and Extra Curricular Activities					

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H.O.D. / Supervisor / Vice Principal

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DAILY PERFORMANCE REPORT					
Class: B.Sc. I, II & III year					
Page: _____ Subject Code: _____					
Class	Date	Period	Time	Details of topic Taught	Topic of Student/Pract
B.Sc. T.Y. Pract	16/07		12:00	Inorganic qualitative analysis (semi-micro)	
B.Sc. B.Y. Pract	17/07		3:20	To determine the solubility of bases acid at different temperature and determination of dissociation procedure & explanation.	
B.Y. Th.	18/07		12:00	Work done in reversible and irreversible process	
B.Y. Th.	19/07		12:00	Concept of maximum work	
B.Y. Pract	20/07		3:20	To determine the solubility of bases acid at different temperature and determination of dissociation procedure and explanation.	
T.Y. Pract	21/07		12:00	Inorganic qualitative analysis (semi-micro)	
Details of Co-Curricular and Extra Curricular Activities					

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DAILY PERFORMANCE REPORT					
Subject		Date		Page	
Class	Date	Period	Time	Details of topic taught	No. of Student Present
B.Sc T.Y Part	17/04		12:00	" Movement of Molecules in Solution "	
B.Sc S.V Part	18/04		3:20	To investigate the kinetics of iodination of Acetone	
B.Sc S.Y TL	19/04		12:00	Carroll theorem Concept of entropy Defining physical significance	
B.Sc S.V TL	20/04		12:30	" Motion "	
B.Sc S.Y Part	21/04		3:20	To investigate the kinetics of iodination of Acetone.	
B.Sc T.Y Part	22/04		12:00	Separation of Cu and Ni from binary mixture - solution and estimation of Ni gravimetrically	
Details of Co-Curricular and Extra Curricular Activities				- Indoor classes, Lab on	

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H.O.D. / Supervisor / Vice Principal

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DAILY PERFORMANCE REPORT					
Subject		Date		Page	
Class	Date	Period	Time	Details of topic taught	No. of Student Present
B.Sc T.Y Part	23/04		12:00	Separation of Cu and Ni from binary mixture - solution and estimation of Ni gravimetrically	
B.Sc S.V Part	24/04		3:20	solution preparation, experimental work, calculation and graph	
B.Sc S.Y TL	25/04		12:00	Entropy as state function, Entropy change in a physical change	
B.Sc S.Y TL	26/04		12:00	Entropy as a measure of spontaneity and equilibrium change - analysis	
B.Sc S.V Part	28/04		3:20	solution preparation, experimental work, calculation and graph	
B.Sc T.Y Part	29/04		12:00	Preparation of solution experimentally with calculation	
Details of Co-Curricular and Extra Curricular Activities				- Indoor classes, Lab on	

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P-XX CHAPTER I : NON-CONVENTIONAL ENERGY SOURCES TOPIC 2: BIO GAS PLANT



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TY VI Paper XX: Non Conventional Energy Sources...

Dhanyakumar Karmude

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