Hope Foundation's
International Institute of Information Technology, Pune
DEPARTMENT OF ENGINEERING SCIENCES
Academic Year 2019 - 20, Semester - I

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DEPARTMENT OF ENGINEERING SCIENCES
Academic Year: 2019-20, Semester - I

THEORY TEACHING RECORD

Course Code :107001	Class: FE-C	Name of Faculty: Prof. Mandar Vijay Datar	
Course Name: Engineering Mathematics-I		Teaching Scheme:	Th : 4 Hrs / week

Lr. No.		Topics to be Delivered	CEO	CO	Date of Plan	Date of Conduction	Remarks of Faculty	Monitored by AC	Monitored by HOD	Monitored by APMC
UNIT 1 : Differential Calculus										
1	1.1	Rolle's theorem and Mean value theorems	CEO101.1	CO101.1	26-08-19	26/8/19				
2	1.2	Problems based on Lagrange's mean value theorem			27-08-19	27/8/19				
3	1.3	Taylor's series expansion and its applications			30-08-19	28/8/19				
4	1.4	Maclaurine series expansion and applications			03-09-19	30/8/19				
5	1.5	Problems based on Taylr and Maclaurine theorems			06-09-19	3/9/19				
6	1.6	Problems using standard expansions			09-09-19	4/9/19				
7	1.7	Indeterminate forms of limit-I			13-09-19	9/9/19				
8	1.8	Indeterminate forms of limit-II			14-09-19	13/9/19				
UNIT 2 : Fourier Series										
9	2.1	Definition and brief introduction to Fourier Series, Dirichlet's conditions	CEO101.2	CO101.2	16-09-19	16/9/19				
10	2.2	Periodic functions and full range fourier series			17-09-19	17/9/19				
11	2.3	Problems based on full range fourier series			20-09-19	18/9/19				
12	2.4	Odd and even function and half range fourier series			23-09-19	23/9/19				
13	2.5	Problems based on half range fourier series			24-09-19	24/9/19				
14	2.6	Harmonic analysis			27-09-19	25/9/19				
15	2.7	Problems based on Harmonic Analysis			28-09-19	26/9/19				

The record shall be monitored by Academic Co-Ordinator (weekly), by HoD (Biweekly) and reviewed by APMC Co-Ordinator (Biweekly)

Lr. No.		Topics to be Delivered	CEO	CO	Date of Plan	Date of Conduction	Remarks of Faculty	Monitored by		
								AC	HOD	APMC
16	2.8	Parseval's Identity and applications to engineering			28-09-19	26/9/19				
UNIT 3 : Partial Differentiation										
17	3.1	Introduction to Functions of several variables, significance in Engineering	CEO101.3	CO101.3	07-10-19	7/10/19				
18	3.2	Definition of Partial derivatives and operators			11-10-19	11/10/19				
19	3.3	Problems based on calculation of partial derivatives			12-10-19	12/10/19				
20	3.4	Euler's theorem and homogeneous functions			14-10-19	14/10/19				
21	3.5	Problems based on Euler's theorem			15-10-19	15/10/19				
22	3.6	Partial derivatives of composite functions			18-10-19	18/10/19				
23	3.7	Total derivative			21-10-19	21/10/19				
24	3.8	Partial differentiation by change of variable			22-10-19	22/10/19				
UNIT 4 : Applications of Partial Differentiation										
25	4.1	Definition of Jacobian and its applications	CEO101.4	CO101.4	04-11-19	4/11/19				
26	4.2	Problems based on calculation of jacobian			05-11-19	5/11/19				
27	4.3	Application of partial derivatives to find errors and approximations			08-11-19	8/11/19				
28	4.4	To find maxima and minima of functions of two variables			09-11-19	9/11/19				
29	4.5	Miscllanious problems on applications of jacobian			11-11-19	11/11/19				
30	4.6	Problems based on Jacobian			15-11-19	15/11/19				
31	4.7	Lagrange's method of undermined multipliers			18-11-19	18/11/19				
32	4.8	Solving differential equations by lagrange's method			19-11-19	19/11/19				
UNIT 5 : Linear Algebra-Matrices and System of Linear Equations										
33	5.1	Matrix algebra	CEO101.5	CO101.5	22-11-19	22/11/19				
34	5.2	Finding rank of a matrix			23-11-19	23/11/19				
35	5.3	System of linear equations			25-11-19	25/11/19				
36	5.4	Solving system of linear equations			26-11-19	26/11/19				
37	5.5	Linear dependance and indepen			29-11-19	29/11/19				

Lr. No.		Topics to be Delivered	CEO	CO	Date of Plan	Date of Conduction	Remarks of Faculty	Monitored by AC	HOD	APMC
38	5.6	Problems based on linear independance			02-12-19	2/12/19				
39	5.7	Linear orthogonal transformations			03-12-19	3/12/19				
40	5.8	Applications of linear algebra to engineering			04-12-19	4/12/19				
UNIT 6 : Linear Algebra-Eigen Values, Eigen Vectors and Diagonalization										
41	6.1	Finding eigen values and eigen vectors	CEO101.6	CO101.6	06-12-19	4/12/19	lecture adjusted			
42	6.2	Problems based on eigen values and eigen vectors			09-12-19	5/12/19	lecture adjusted in tutorial			
43	6.3	Caley-Hamilton theorem and its applications			10-12-19	5/12/19	session			
44	6.4	Diagonalization of a matrix			11-12-19	6/12/19				
45	6.5	Problems based on diagonalization			13-12-19	6/12/19	lecture adjusted			
46	6.6	Quadratic forms of matrix			14-12-19	7/12/19	Tutorial			
47	6.7	Reduction of quadratic forms to cannonical forms by using orthogonal transformation			16-12-19	7/12/19	session			
48	6.8	Problems based on quadratic forms			17-12-19	9/12/19	lecture adjusted			

Start of Semester

Signature	Date
Course Faculty :	26-08-2019
HoD : Praveen	26/08/19

End of Semester

Signature	Date
Course Faculty :	17.12.19
HoD : Praveen	17/12/19

Hope Foundation's
International Institute of Information Technology, Pune
DEPARTMENT OF ENGINEERING SCIENCES
Academic Year : 2019-20, Semester - I

PRACTICAL TEACHING RECORD

Subject Code :107001	Class:FE-C	Name of Faculty: Mandar Vijay Datar				
Subject Name: Engineering Mathematics-I		Batch: A1		Teaching Scheme:	Pr : 2 Hrs / week	

Sr. No.	Experiment / Assignment	CEO	CO	Date of Plan	Date of Conduction	Remarks of Faculty (incase of variance)	Monitored by		
							AC	HOD	APMC
1	Differential Calculus	CEO101.1	CO101.1	29-08-2019	29.8.19				
				05-09-2019					
2	Fourier Series	CEO101.2	CO101.2	19-09-2019	19.9.19				
				26-09-2019		Cancelled for lecture			
3	Partial Differentiation	CEO101.3	CO101.3	10-10-2019	10.10.19				
				17-10-2019		Cancelled for lectu			
4	Applications of Partial Differentiation	CEO101.4	CO101.4	24-10-2019	24/10/19				
5	Linear Algebra-I	CEO101.5	CO101.5	07-11-2019	7/11/19				
6	Linear Algebra-II	CEO101.5	CO101.6	14-11-2019	5/12/19	rescheduede cancelled for lecture			

Start of Semester

Signature	Date
Course Faculty : Prof. Mandar V. Datar	26/08/19
HoD :	26/08/19

End of Semester

Signature	Date
Course Faculty : Prof. Mandar V. Datar	6.12.19
HoD :	17/12/19

Hope Foundation's
International Institute of Information Technology, Pune
DEPARTMENT OF ENGINEERING SCIENCES
Academic Year : 2019-20, Semester - I

PRACTICAL TEACHING RECORD

Subject Code :107001 **Class:FE-C** | **Name of Faculty: Mandar Vijay Datar**
Subject Name: Engineering Mathematics-I | **Batch: B1C** | **Teaching Scheme:** **Pr : 2 Hrs / week**

Sr. No.	Experiment / Assignment	CEO	CO	Date of Plan	Date of Conduction	Remarks of Faculty (incase of variance)	Monitored by AC	HOD	APMC
1	Differential Calculus	CEO101.1	CO101.1	27-08-2019	27/8/19				
				03-09-2019					
2	Fourier Series	CEO101.2	CO101.2	17-09-2019	17/9/19				
				24-09-2019	24/9/19				
3	Partial Differentiation	CEO101.3	CO101.3	24-09-2019	–	Cancelled for lecture			
4	Applications of Partial Differentiation	CEO101.4	CO101.4	15-10-2019	15-10-19				
5	Linear Algebra-I	CEO101.5	CO101.5	22-10-2019	5-11-19	rescheduled ~~corrected~~ to lecture			
6	Linear Algebra-II	CEO101.5	CO101.6	05-11-2019	6-12-19	Rescheduled for lecture			

Start of Semester

Signature	Date
Course Faculty : Prof. Mandar V. Datar	26/8/19
HoD : Prasad	26/08/19

End of Semester

Signature	Date
Course Faculty : Prof. Mandar V. Datar	6-12-19
HoD : Prasad	17/12/19

Hope Foundation's
International Institute of Information Technology, Pune
DEPARTMENT OF ENGINEERING SCIENCES
Academic Year : 2019-20, Semester - I

PRACTICAL TEACHING RECORD

Subject Code :107001 **Class:FE-C** | **Name of Faculty: Mandar Vijay Datar**
Subject Name: Engineering Mathematics-I | **Batch: C1C** | **Teaching Scheme:** **Pr : 2 Hrs / week**

Sr. No.	Experiment / Assignment	CEO	CO	Date of Plan	Date of Conduction	Remarks of Faculty (incase of variance)	Monitored by AC	HOD	APMC
1	Differential Calculus	CEO101.1	CO101.1	28-08-2019	27/8/19.				
				04-09-2019	—				
2	Fourier Series	CEO101.2	CO101.2	11-09-2019	—	adjusted in lecture			
				18-09-2019	18/9/19				
3	Partial Differentiation	CEO101.3	CO101.3	25-09-2019		adjusted in lecture			
				09-10-2019	9.10.19				
4	Applications of Partial Differentiation	CEO101.4	CO101.4	16-10-2019	16.10.19				
5	Linear Algebra-I	CEO101.5	CO101.5	23-10-2019		adjusted in lecture			
				06-11-2019	6.11.19				
6	Linear Algebra-II	CEO101.5	CO101.6	13-11-2019	13.11.19				

Start of Semester

Signature	Date
Course Faculty : Prof. Mandar V. Datar	26/8/19.
HoD : Pruesad	26/08/19

End of Semester

Signature	Date
Course Faculty : Prof. Mandar V. Datar	6.12.19
HoD : Pruesad	17/12/19

Hope Foundation's
International Institute of Information Technology, Pune
DEPARTMENT OF ENGINEERING SCIENCES
Academic Year 2019 - 20, Semester - II

COURSE FILE INDEX

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3	Correlation of COs with POs (Theory)	I2IT / ACAD / CP / 02
4	Course Objectives and Outcomes (Laboratory)	I2IT / ACAD / CP / 01
5	Correlation of COs with POs ((Laboratory)	I2IT / ACAD / CP / 02
6	University Syllabus	
7	Previous University Question Papers	
8	Theory Question Bank	
9	Objective Question Bank	
10	Theory Teaching Plan	I2IT / ACAD / CP / 03
11	Laboratory Teaching Plan	I2IT / ACAD / CP / 04
12	Lesson Plan and Resources	I2IT / ACAD / CP / 05
13	Rubrics for Continuous evaluation	I2IT / ACAD / CP / 06
14	Class Test Question Papers with solutions	I2IT / ACAD / CP / 07
15	Class Test Attendance	I2IT / ACAD / CP / 08
16	Slow Learner and advanced Learner Identification	I2IT / ACAD / CP / 09
17	Schedule of slow Learner Activities	I2IT / ACAD / CP / 10
18	Assignments to Advanced Learners	I2IT / ACAD / CP / 11
19	Class Test Evaluation Record	I2IT / ACAD / CP / 12
20	List of Slow Learners	I2IT / ACAD / CP / 13
21	List of Advanced Learners	I2IT / ACAD / CP / 14
22	Slow Learner Attendance Record	I2IT / ACAD / CP / 15
23	Performance Improvement of Slow Learner	I2IT / ACAD / CP / 16
24	Content Beyond Syllabus	I2IT / ACAD / CP / 17
25	Theory Attendance Record	I2IT / ACAD / BB / 01
26	Practical Attendance Record	I2IT / ACAD / BB / 02
27	Continuous Assessment Record	I2IT / ACAD / BB / 03
28	Average University Result	I2IT / ACAD / AT / 01
29	CO Attainment through University Result	I2IT / ACAD / AT / 02
30	CO Attainment through Class Tests	I2IT / ACAD / AT / 03
31	CO Attainment through Course End Survey	I2IT / ACAD / AT / 04
32	CO Attainment through Continuous Evaluation	I2IT / ACAD / AT / 05
33	PO & PSO Attainment through CO for Theory	I2IT / ACAD / AT / 06
34	PO & PSO Attainment through CO for Practical	I2IT / ACAD / AT / 06
35	TW Calculation Sheet	I2IT / ACAD / AT / 07

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TEACHING PLAN (TP)

ACADEMIC YEAR : 2019-2020
NAME OF FACULTY : SANDEEP RAGHUNATH VARPE
COURSE AND CODE : Engineering Sciences-ES
SEMESTER : SEMESTER 2
SUBJECT NAME: Engineering Physics-PHY
SUBJECT CODE : 107002
DIVISION : C

Lect No.	Contents to be Covered	CEOs Mapping to the Contents	COs Mapping to the Contents	Date of Planning	Date of Conduction	Remarks
1	Wave optics	CEO102.1	CO102.1	07/01/2020	07/01/2020	
2	EM spectra	CEO102.1	CO102.1	09/01/2020	09/01/2020	
3	Uniform thickness thinfilm	CEO102.1	CO102.1	10/01/2020	10/01/2020	
4	wedge shape thin film	CEO102.1	CO102.1	13/01/2020	13/01/2020	
5	Numericals on interference	CEO102.1	CO102.1	14/01/2020	14/01/2020	
6	Diffraction	CEO102.1	CO102.1	15/01/2020	15/01/2020	
7	Diffraction intensity pattern	CEO102.1	CO102.1	16/01/2020	16/01/2020	
8	Diffraction Grating	CEO102.1	CO102.1	17/01/2020	17/01/2020	
9	Rayleigh Criterion	CEO102.1	CO102.1	17/01/2020	17/01/2020	
10	Resolving power	CEO102.1	CO102.1	20/01/2020	20/01/2020	
11	Polarization of light	CEO102.1	CO102.1	21/01/2020	21/01/2020	
12	Malus law	CEO102.1	CO102.1	22/01/2020	24/01/2020	
13	Huygens Theory	CEO102.1	CO102.1	23/01/2020	23/01/2020	
14	LCD	CEO102.1	CO102.1	24/01/2020	24/01/2020	
15	Revision of Unit 01	CEO102.1	CO102.1	24/01/2020	24/01/2020	
16	Basic of LASER	CEO102.1	CO102.2	04/02/2020	04/02/2020	
17	Heterojunction Laser	CEO102.1	CO102.2	05/02/2020	05/02/2020	
18	CO2 LASER	CEO102.1	CO102.2	06/02/2020	06/02/2020	
19	Applications of LASER	CEO102.1	CO102.2	07/02/2020	07/02/2020	
20	Optical Fiber	CEO102.1	CO102.2	10/02/2020	10/02/2020	
21	Types of optical fiber	CEO102.1	CO102.2	13/02/2020	13/02/2020	
22	Attenuation	CEO102.1	CO102.2	24/02/2020	24/02/2020	
23	Reasons for loss in O.F.	CEO102.1	CO102.2	25/02/2020	25/02/2020	
24	Numerics on optical fiber	CEO102.1	CO102.2	25/02/2020	25/02/2020	
25	Revision on unit II	CEO102.1	CO102.2	26/02/2020	26/02/2020	
26	de Broglies Hypothesis	CEO102.1	CO102.3	11/03/2020	11/03/2020	
27	Phase and group velocity	CEO102.1	CO102.3	12/03/2020	12/03/2020	
28	Heisenberg U P	CEO102.1	CO102.3	13/03/2020	13/03/2020	
29	Schrodinger s Eq	CEO102.1	CO102.3	16/03/2020	23/03/20	ONLINE
30	Rigid box	CEO102.1	CO102.3	17/03/2020	24/03/20	
31	Non Rigid box	CEO102.1	CO102.3	18/03/2020	26/03/20	
32	Numerical on rigid box	CEO102.1	CO102.3	19/03/2020	27/03/20	
33	Conductivity	CEO102.1	CO102.4	20/03/2020	30/03/20	
34	Fermi distribution function	CEO102.1	CO102.4	23/03/2020	31/03/20	
35	Band Theory of Solid	CEO102.1	CO102.4	24/03/2020	01/04/20	
36	Fermi level in semiconductor	CEO102.1	CO102.4	26/03/2020	07/04/20	
37	Hall Effect	CEO102.1	CO102.4	27/03/2020	08/04/20	
38	Solar cell	CEO102.1	CO102.4	30/03/2020	09/04/20	

39	Calculation of Barrier potential	CEO102.1	CO102.4	31/03/2020	12/04/20	
40	Ideal Diode Equation	CEO102.1	CO102.4	01/04/2020	13/04/20	
41	Magnetism	CEO102.1	CO102.5	07/04/2020	15/04/20	
42	Classification of Magnetism	CEO102.1	CO102.5	08/04/2020	16/04/20	
43	Magnetic storage devices	CEO102.1	CO102.5	09/04/2020	17/04/20	
44	Properties of superconductor	CEO102.1	CO102.5	13/04/2020	20/04/20	
45	Types of SC	CEO102.1	CO102.5	15/04/2020	22/04/20	
46	Applications of SC	CEO102.1	CO102.5	16/04/2020	23/04/20	
47	Quantum Computing	CEO102.1	CO102.4	17/04/2020	24/04/20	
48	Properties of Nanomaterial	CEO102.1	CO102.6	20/04/2020	27/04/20	
49	Quantum confinement	CEO102.1	CO102.6	21/04/2020	28/04/20	
50	Applications of Nanotechnology	CEO102.1	CO102.6	22/04/2020	30/04/20	
51	NDT	CEO102.1	CO102.6	23/04/2020	04/05/20	
52	Radiography testing	CEO102.1	CO102.6	24/04/2020	05/05/20	
53	ultrasonic testing	CEO102.1	CO102.6	27/04/2020	07/05/20	
54	Revision of unit 5 and 6	CEO102.1	CO102.6	28/04/2020	08/05/20	

:ULTY : SANDEEP RAGHUNATH VARPE

HOD : RAKHI PRASAD WAGH

ACADEMIC CO-ORDINATOR : YOGIRAJRAMAKANTRAO DESHMUKH

APMC Coordinator : AJITKUMAR SURESHRAO SHITOLE

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PRACTICAL PLAN REPORT

Academic Year: 2019-2020 **Faculty:** SANDEEP RAGHUNATH VARPE

Course & Code: Engineering Sciences (ES) **Batch:** B1C(SEMII 2019)

Subject Code: Engineering Physics (107002) **Semester:** SEMESTER 2

Sr.No	Name Of Experiment/Assignment /Sheet/Job/Project Activity	CEOs Mapping to the Contents	COs Mapping to the Contents	Dates of Planning (From - To)	Dates of Conduction	Remarks
1	Newtons Ring	CEO102.1	CO102.1	13/01/2020 - 17/01/2020	15/01/2020	
2	Diffraction Grating	CEO102.1	CO102.2	20/01/2020 - 24/01/2020	22/01/2020,29/01/2020	
3	Band gap energy	CEO102.1	CO102.4	09/03/2020 - 14/03/2020	05/02/2020	
	Malus Law	CEO102.1	CO102.1	03/02/2020 - 07/02/2020	05/02/2020	
5	Thickness of wire	CEO102.1	CO102.2	03/02/2020 - 07/02/2020	29/01/2020	
6	Ultrasonic	CEO102.1	CO102.6	09/03/2020 - 14/03/2020	11/03/2020	
7	Hall Effect	CEO102.1	CO102.4	16/03/2020 - 20/03/2020	07/05/20	
8	Solar Cell	CEO102.1	CO102.4	23/03/2020 - 28/03/2020	08/05/20	

FACULTY : SANDEEP RAGHUNATH VARPE

HOD : RAKHI PRASAD WAGH Received

ACADEMIC CO-ORDINATOR : YOGIRAJ RAMAKANTRAO DESHMUKH

APMC Coordinator : AJITKUMAR SURESHRAO SHITOLE

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PRACTICAL PLAN REPORT

Academic Year: 2019-2020 **Faculty:** SANDEEP RAGHUNATH VARPE

Course & Code: Engineering Sciences (ES) **Batch:** A1C(SEMII 2019)

Subject Code: Engineering Physics (107002) **Semester:** SEMESTER 2

Sr.No	Name Of Experiment/Assignment /Sheet/Job/Project Activity	CEOs Mapping to the Contents	COs Mapping to the Contents	Dates of Planning (From - To)	Dates of Conduction	Remarks
1	Newtons Ring	CEO102.1	CO102.1	13/01/2020 - 17/01/2020	14/01/2020	
2	Diffraction Grating	CEO102.1	CO102.1	27/01/2020 - 31/01/2020	28/01/2020	
3	Malus law	CEO102.1	CO102.1	03/02/2020 - 07/02/2020	04/02/2020	
	Thickness of wire	CEO102.1	CO102.2	03/02/2020 - 07/02/2020	04/02/2020	
5	Band gap Energy	CEO102.1	CO102.4	09/03/2020 - 14/03/2020	09/03/20	
6	Ultrasonic expt	CEO102.1	CO102.6	09/03/2020 - 14/03/2020	09/03/20	
7	Hall Effect	CEO102.1	CO102.4	16/03/2020 - 20/03/2020	07/05/20	
8	Solar Cell	CEO102.1	CO102.4	23/03/2020 - 28/03/2020	08/05/20	

FACULTY : SANDEEP RAGHUNATH VARPE

HOD : RAKHI PRASAD WAGH

ACADEMIC CO-ORDINATOR : YOGIRAJ RAMAKANTRAO DESHMUKH

APMC Coordinator : AJITKUMAR SURESHRAO SHITOLE

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PRACTICAL PLAN REPORT

Academic Year: 2019-2020 **Faculty:** SANDEEP RAGHUNATH VARPE
Course & Code: Engineering Sciences (ES) **Batch:** C1C(SEMII 2019)
Subject Code: Engineering Physics (107002) **Semester:** SEMESTER 2

Sr.No	Name Of Experiment/Assignment /Sheet/Job/Project Activity	CEOs Mapping to the Contents	COs Mapping to the Contents	Dates of Planning (From - To)	Dates of Conduction	Remarks
1	Newtons Ring	CEO102.1	CO102.1	13/01/2020 - 17/01/2020	17/01/2020	
2	Diffraction Grating	CEO102.1	CO102.1	20/01/2020 - 24/01/2020	24/01/2020	
3	Malus law	CEO102.1	CO102.1	03/02/2020 - 07/02/2020	07/02/2020,07/02/2020	
	Thickness of wire	CEO102.1	CO102.2	03/02/2020 - 07/02/2020	07/02/2020,07/02/2020	
5	Band Gap Energy	CEO102.1	CO102.4	09/03/2020 - 14/03/2020	13/03/2020	
6	Ultrasonic Expt	CEO102.1	CO102.6	09/03/2020 - 14/03/2020	13/03/2020	
7	Hall Effect	CEO102.1	CO102.4	16/03/2020 - 20/03/2020	07/05/20	
8	Solar Cell	CEO102.1	CO102.4	23/03/2020 - 28/03/2020	08/05/20	

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