1.1.1 *The Institution ensures effective curriculum delivery through a well-planned and documented process*

Proofs for 1.1.1

SIES Graduate School of Technology is affiliated to University of Mumbai. The institute plans the curriculum delivery by following the process as shown in the chart below.

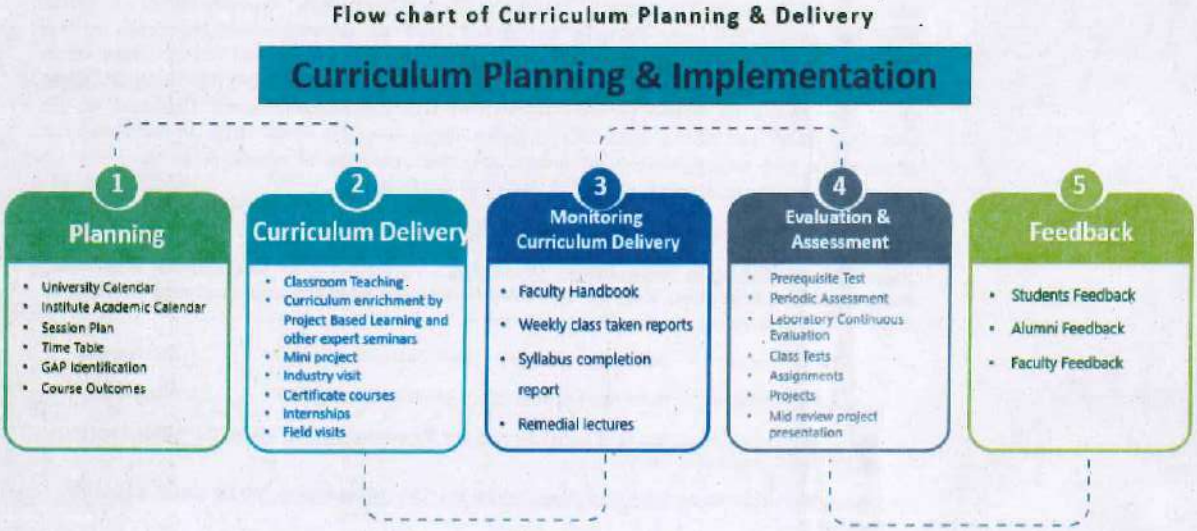

Fig 1.1.1 – Flow chart of Curriculum Planning & Delivery

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University Calender

University of Mumbai

No. UG/ 08 of 2019-20

CIRCULAR:-

The Directors/Heads of the University Departments, the Principal of the affiliated colleges, Head of the recognized Institutions concerned, the Principals of the Sir J.J. College of Architecture and the Director/Co-ordinators of Ratnagiri Sub-Centre & Thane Sub-Centre and the Captain Superintendent, Ministry of Surface Transport, Training Ship "Chanakya" Government of India, Mumbai - 400 001, are hereby informed that the arrangement of terms in the various faculties of the University for the academic year 2019-2020 has been accepted by the Academic Council at its meeting held on 15th April, 2020 **vide** item No. 8.1 and subsequently approved by the Management Council at its meeting held on 26th April, 2019 **vide** item No. 19 and that in accordance therewith, the arrangement of terms for the courses of studies in the various faculties for the academic year 2019-2020 is under :

The same available on the University website (www.mu.ac.in)

Faculty of Science & Technology (Science) : - Including all **Certificate, Diploma, Post-graduate Diploma, Degree and Master Degree courses** and Bachelor of Science (Maritime Science) under the Science Stream.

First Term	- 06th June, 2019 to 24th October, 2019	Both days inclusive
Second Term	- 15th November, 2019 to 02nd May, 2020	

1) There will be a break for Mid term from **02nd September, 2019 to 07th September, 2019** (both days inclusive).

2) Diwali Vacation from **25th October, 2019 to 14th November, 2019** (both days inclusive).

3) There will be a break for winter from **26th December, 2019 to 01st January, 2020** (both days inclusive) .

4) Summer Vacation from **03rd May 2020 to 07th June 2020** (both days inclusive).

2/-

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Faculty of Science & Technology (Engineering) :-

The arrangement of terms for **First Year Engineering (Full -Time and Part Time) (All Branches) and M.C.A.** be as under:-

First Term - 01st August, 2019 to 21st December, 2019
Second Term - 08th January, 2020 to 04th June, 2020
} Both days inclusive

1) There will be a break for Mid term from **02nd September, 2019 to 07th September, 2019** (both days inclusive).

2) There will be a break for term Break from **22th December, 2019 to 07th January, 2020** (both days inclusive).

3) Summer Vacation **05th June, 2020 to 07th July, 2020** (both days inclusive)

The arrangement of terms for the **S.E., T.E. and B.E. (Full-Time and Part-Time) (All branches), M.E. (Full-Time and Part-Time) (All branches), D.I.E. and Second Year, Third Year M.C.A.** be as under:-

First Term - 08th July, 2019 to 14th December, 2019
Second Term - 06th January, 2020 to 07th June, 2020
} Both days inclusive

1) There will be a break for Mid term from **02nd September, 2019 to 07th September, 2019** (both days inclusive).

2) There will be a break for term Break from **15th December, 2019 to 05th January, 2020** (both days inclusive).

3) Summer Vacation from **08th June, 2020 to 08th July, 2020** (both days inclusive).

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No. UG/65 of 2019 MUMBAI-400 032 30th April, 2019

Copy forwarded with compliments for information to:-

1) The Deans, of all faculties and Chairman/Chairpersons of the various Board of Studies and **Ad-hoc** Board of Studies ,
2) The Offg. Director of Board of Examinations and Evaluation,
3) The Director of Board of Student Development.,
4) The Co-Ordinator, University Computerization Centre,

(Dr. Ajay Deshmukh)
REGISTRAR

Copy to :

The Director of Board of Student Development., the Deputy Registrar (Eligibility and Migration Section), the Pro-Vice-Chancellor, the Registrar and the Assistant Registrar, Sub-Center, Ratnagiri for information.

The Offg. Director of Board of Examinations and Evaluation (3 copies), the Finance and Accounts Office (1 copies), Record Section (2 copies), Publications Section (2 copies), the Deputy Registrar, Enrolment, Eligibility and Migration Section (1 copies), the Deputy Registrar (Accounts Section), Vidyanagari (1 copies), the Deputy Registrar, Affiliation Section (1 copies), the Professor-cum- Director, Institute of Distance and Open Learning Education, (4 copies) the Director University Computer Center (IDE Building), Vidyanagari, (1 copies) the Deputy Registrar (Special Cell), the Deputy Registrar, (PRO) the Assistant Registrar, Academic Authorities Unit (1 copies) and the Assistant Registrar, Executive Authorities Unit (1 copies). They are requested to treat this as action taken report on the concerned resolution adopted by the Academic Council referred to in the above circular and that on separate Action Taken Report will be sent in this connection. The Deputy Registrar (TASS UT/CT) (copy), the Deputy Accountant, Unit V (1 copy), the In-charge Director, Centralize Computing Facility (1 copy), the Receptionist (1 copy), the Telephone Operator (1 copy), the Secretary MUASA (1 copy), the Superintendent, Post-Graduate Section (1 copies), the Superintendent, Thesis Section (1 copies)

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SESSION PLAN - THEORY

No of lectures: 48 **Lectures Actually Conducted:** 51

its probability of error 6.5 Coherent Reception	

Text Books (List of books as mentioned in the approved syllabus)

1. H. Taub, D. Schilling, and G. Saha, —Principles of Communication Systems,‖ Tata Mc- Graw Hill, New Delhi, Third Edition, 2012.

2. Lathi B. P. and Ding Z., —Modern Digital and Analog Communication Systems,‖ Oxford University Press, Fourth Edition, 2009.

3. Haykin Simon, —Digital Communication Systems,‖ John Wiley and Sons, New Delhi, Fourth Edition, 2014.

4. Sklar B. and Ray P. K., —Digital Communication: Fundamentals and applications,‖ Pearson, Dorling Kindersley (India), Delhi, Second Edition, 2009.

5. T L Singal, —Analog and Digital Communication,‖ Tata Mc-Graw Hill, New Delhi, First Edition.

6. P Ramakrishna Rao, —Digital Communication,‖ Tata Mc-Graw Hill, New Delhi, First Edition, 2011.

7. M F Mesiya, —Contempory Communication systems‖, Mc-Graw Hill, Singapore, First Edition, 2013.

Chapter wise Plan

Course Code and Title: **EC502 / Digital Communication**	
Chapter Number and Title: **1 - Probability Theory, Random Variables and Random Processes**	Planned Hours: **8.00 hrs**

Lesson Schedule TEA

Lecture No. - Portion covered per hour	Planned Delivery Date	Actual Delivery Date
1. PCM and DM	8.7.19	8.7.19
2. Information, Probability Conditional Probability of independent events, Relation between probability and probability Density	9.7.19	9.7.19
3. Raleigh Probability Density , CDF, PDF	11.7.19	11.7.19
4. Random Variables, Variance of a Random Variable, correlation between Random Variables, Statistical Averages(Means),Mean and Variance of sum of Random variables	12.7.19	12.7.19
5. Linear mean square Estimation, Central limit theorem	15.7.19	15.7.19
6. Error function and Complementary error function Discrete and Continuous Variable, Gaussian PDF	16.7.19	16.7.19
7. Threshold Detection, Statistical Average, Chebyshev In-Equality, Auto correlation	18.7.19	18.7.19
8. Random Processes	19.7.19	19.7.19

Chapter Number and Title: **2 - Information Theory and Source Coding**	Planned Hours: **6.00 hrs**

Lesson Schedule

Lecture No. - Portion covered per hour	Planned Delivery Date	Actual Delivery Date
9. Block diagram and sub-system description of a digital communication system, measure of information and properties, entropy and it's properties	22.7.19	22.7.19

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SESSION PLAN - THEORY

Target No of lectures: 48 **Lectures Actually Conducted:** 51

Course Content

Course Code: ECC502	Course Title: Digital Communication	
L-T-P: 4-0-4	Credits: 8	Contact Hrs: 48
CIA Marks: 20	TEE Marks: 80	Total Marks: 100
Teaching Hrs: 48		Exam Duration: 3 hrs

Content	Hrs
Unit - 1	
Chapter No. 1 -Probability Theory, Random Variables and Random Processes 1.1 Information, Probability: Conditional Probability of independent events, Relation between probability and probability Density , Raleigh Probability Density , CDF, PDF. 1.2 Random Variables, Variance of a Random Variable, correlation between Random Variables, Statistical Averages(Means),Mean and Variance of sum of Random variables, Linear mean square Estimation, Central limit theorem, Error function and Complementary error function Discrete and Continuous Variable, Gaussian PDF, Threshold Detection, Statistical Average, Chebyshev In-Equality, Autocorrelation. 1.3 Random Processes	8.00 hrs
Unit - 2	
Chapter No. 2 - Information Theory and Source Coding Block diagram and sub-system description of a digital communication system, measure of information and properties, entropy and it's properties 2.2 Mini Source Coding, Shannon's Source Coding Theorem, Shannon-Fano Source Coding, Huffman Source Coding 2.3 Differential Entropy, joint and conditional entropy, mutual information and channel capacity, channel coding theorem, channel capacity theorem	6.00 hrs
Unit - 3	
Chapter No. 3 - Error Control Systems Types of error control, error control codes, linear block codes, systematic linear block codes, generator matrix, parity check matrix, syndrome testing, error correction, and decoder implementation 3.2 Systematic and Non-systematic Cyclic codes: encoding with shift register and error detection and correction 3.3 Convolution Codes: Time domain and transform domain approach, graphical representation, code tree, trellis, state diagram, decoding methods.	12.00 hrs
Unit - 4	
Chapter No. 4 - Band pass Modulation & Demodulation 4.1 Band-pass digital transmitter and receiver model, digital modulation schemes 4.2 Generation, detection, signal space diagram, spectrum, bandwidth efficiency, and probability of error analysis of: Amplitude Shift Keying (ASK), Frequency Shift Keying (FSK)Modulations, Binary Phase Shift Keying (BPSK) Modulation, Quaternary Phase Shift Keying QPSK), M- ary PSK Modulations, Quadrature Amplitude Modulation (QAM), Minimum Shift Keying (MSK)	10.00 hrs
Unit - 5	
Chapter No. 5 - Baseband Modulation & Transmission 5.1 Discrete PAM signals and it's power spectra 5.2 Inter-symbol interference, Nyquist criterion for zero ISI, sinusoidal roll-off filtering, correlative coding, equalizers, and eye pattern	4.00 hrs
Unit - 6	
Chapter No. 6 - Optimum Reception of Digital Signal 6.1 Baseband receiver 6.2 Probability of Error 6.3 Optimum Receiver and Filter 6.4 Matched Filter and	8.00 hrs

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Session Plan:

Detailed session plan of theory subject with Course Outcomes, Syllabus, CO-PO Mapping, List of reference books, Lesson Schedule.

SESSION PLAN - THEORY

No of lectures: 48 **Lectures Actually Conducted:** 51

Course Plan- TE A Division

Semester: 5 - Semester	Year: 2019-2020
Course Title: Digital Communication A	Course Code: ECC502
Total Contact Hours: 48	Duration of TEE: 3 Hours
TEE Marks: 80	CIA Marks: 20
Lesson Plan Author: Prof. Biju Balakrishnan	Last Modified Date: 10-07-2019
Checked By: Prof. Shubhangi Karche	Last Reviewed Date: 10-07-2019

Course Outcomes (COs):

At the end of the course the student should be able to:

CO1. Explain probability theory, random variables and random processes
CO2. Apply the concepts of information theory in source coding
CO3. Evaluate the performances of different error control codes and applications
CO4. Compare the performances of different band pass modulations and applications
CO5. Evaluate various methods to eliminate inter symbol interference
CO6. Compare different receiver techniques in terms of error probability

Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs)

Course Title: Digital Communication	Semester: 5 - Semester
Course Code: ECC502	Year: 2019

(COs) / (POs)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3											3	3	3
CO2	3	3											3	
CO3	3	3		3									3	
CO4	3	3											3	
CO5	3	3											3	
CO6	3	3											3	

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College Academic Calendar

SIES GRADUATE SCHOOL OF TECHNOLOGY
Nerul, Navi Mumbai 400 706

ACADEMIC CALENDAR - FIRST HALF OF 2020

Month	Week No.	Days of the Week							Working Days	Instructional Days	Event Particulars
		M	T	W	T	F	S	S			
January	1			1	2	3	4	5	4	-	
	2	6	7	8	9	10	11	12	6	5	6-Course Commencement for FE, SE, TE & BE
	3	13	14	15	16	17	18	19	6	5	18-IQAC Meeting
	4	20	21	22	23	24	25	26	6	5	26-Republic Day
	5	27	28	29	30	31	1	2	6	5	
February	6	3	4	5	6	7	8	9	6	5	**8 to 11 - Test I**, 8-First Defaulters List (Attendance up to 07/01), 1st Academic Progress Review Meeting
	7	10	11	12	13	14	15	16	5	0	1st Feedback Week, 12-13-Non-instructional Days 14-15 - Annual Festival / Tatva Moksha Lakshya
	8	17	18	19	20	21	22	23	5	3	19-Shivaji jayanthi, 21-Mahashivratri, 20-Result of Test-I, 22-Email/Call to Parents
	9	24	25	26	27	28	29	1	6	5	28-Result of Test I, Midterm Submission 29-Parent-Teachers' Meet
March	10	2	3	4	5	6	7	8	6	5	
	11	9	10	11	12	13	14	15	5	4	10-Holi
	12	16	17	18	19	20	21	22	6	5	21-Second Defaulters' List (Attendance up to 20/02) 21-IQAC Meeting
	13	23	24	25	26	27	28	29	6	4	23 to 28-Internal KT Week, 25-Gudhi Padwa/Ugadi 28-2nd Academic Progress Review Meeting
April	14	30	31	1	2	3	4	5	4	4	2-Ramnavami, **4 to 11-Test II**, 4-Final Defaulters' List 3-Last Instructional Day, 2nd Feedback Week
	15	6	7	8	9	10	11	12	5	0	6-Mahavir Jayanti, 10-Good Friday
	16	13	14	15	16	17	18	19	5	0	14-Ambedkar Jayanti, 15-Result of Test-II 15-Final Submission
	17	20	21	22	23	24	25	26	6	0	***20/4 to 25/4-Oral/Practical Exam for FE, SE, TE, BE***
	18	27	28	29	30	1	2	3	5	0	1-Maharashtra Day
May	19	4	5	6	7	8	9	10	5	0	7-Buddha Pournima ***7/5 to 25/5-Theory Exam (Sem-II, IV, VI & VIII)***
	20	11	12	13	14	15	16	17	6	0	
	21	18	19	20	21	22	23	24	6	0	Stock Verification & IQAC Internal Audit Week
	22	25	26	27	28	29	30	31	5	0	25-Id-ul-Fitr ***26/5 to 11/6-Theory Exam (Sem-I,III, V & VII)***
Total No. of Working & Instructional Days									120	55	*Week No. 16 Can be utilised for extra classes

Dr. A. N. Kemkar
I/c Principal

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SESSION PLAN - THEORY

No of lectures: 48 **Lectures Actually Conducted:** 51

TE A

33. Off set QPSK	17 9 19	19 9 19
34. M- ary PSK Modulations	19 9 19	19 9 19
35. Quadrature Amplitude Modulation (QAM)	20 9 19	20 9 19
36. Minimum Shift Keying (MSK)	23 9 19	27 9 19
Chapter Number and Title: **5 - Baseband Modulation & Transmission**	Planned Hours: **4.00 hrs**	

Lesson Schedule

Lecture No. - Portion covered per hour	Planned Delivery Date	Actual Delivery Date
37. Discrete PAM signals and it's power spectra	24 9 19	24 9 19
38. Inter-symbol interference, Nyquist criterion for zero ISI, sinusoidal roll-off filtering	26 9 19	26 9 19
39. correlative coding	27 9 19	30 9 19
40. equalizers, and eye pattern	30 9 19	3 10 19

Chapter Number and Title: **6 - Optimum Reception of Digital Signal**	Planned Hours: **8.00 hrs**

Lesson Schedule

Lecture No. - Portion covered per hour	Planned Delivery Date	Actual Delivery Date
41. Baseband receiver	1 10 19	23 10 19
42. Probability of Error	3 10 19	24 10 19
43. Optimum Receiver and Filter	4 10 19	25 10 19
44. continuation of Optimum Receiver and Filter	7 10 19	07 10 19
45. Matched Filter and its probability of error	10 10 19	10 10 19
46. Continuation of Matched Filter and its probability of error	11 10 19	11 10 19
47. Coherent Reception	14 10 19	14 10 19
48. Continuation of Coherent Reception	15 10 19	22 11 19

EXTRA LECTURES: 6 8 19 9-10
22 11 19 9-1

RCBG:D
Subject in charge

Session plan coordinator

HOD

Principal

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TE A

10. Source Coding, Shannon's Source Coding Theorem	23.7.19	23.7.19
11. Shannon-Fano Source Coding	24.7.19	25.7.19
12. Huffman Source Coding	26.7.19	26.7.19
13. Differential Entropy, joint and conditional entropy, mutual information and channel capacity	29.7.19	29.7.19
14. Channel coding theorem, channel capacity theorem	30.7.19	30.7.19

Chapter Number and Title: **3 - Error Control Systems**	Planned Hours: **12.00 hrs**

Lesson Schedule

Lecture No. - Portion covered per hour	Planned Delivery Date	Actual Delivery Date
15. Types of error control, error control codes	1.8.19	1.8.19
16. Linear block codes, systematic linear block codes	2.8.19	2.8.19
17. Generator matrix, parity check matrix	5.8.19*	5.8.19
18. Syndrome testing ,error correction, and decoder implementation	6.8.19	6.8.19
19. Systematic and Non-systematic Cyclic codes	8.8.19	8.8.19
20. Encoding with shift register	9.8.19	9.8.19
21. Error detection and correction	13.8.19	13.8.19
22. Continuation of error correction problems	16.8.19	16.8.19
23. Convolution Codes: Time domain and transform domain approach	22.8.19	22.8.19
24. Graphical representation, code tree, trellis, state diagram	23.8.19	23.8.19
25. Problems on graphical representation, code tree, trellis, state diagram	26.8.19	26.8.19
26. Decoding methods.	27.8.19	27.8.19

Chapter Number and Title: **4 - Bandpass Modulation & Demodulation**	Planned Hours: **10.00 hrs**

Lesson Schedule

Lecture No. - Portion covered per hour	Planned Delivery Date	Actual Delivery Date
27. Band-pass digital transmitter and receiver model, digital modulation schemes	29.8.19	29.8.19
28. Generation, detection, signal space diagram, spectrum, bandwidth efficiency, and probability of error analysis	30.8.19*	09.09.19
29. Amplitude Shift Keying (ASK)	9.9.19	12.09.19
30. Frequency Shift Keying (FSK)Modulations	12.9.19	13.9.19
31. Binary Phase Shift Keying (BPSK) Modulation	13.9.19	16.9.19
32. Quaternary Phase Shift Keying QPSK)	16.9.19	17.9.19

* 5.8.19 Holiday (Rain)
30.8.19 Nolecture (Midterm Submission)
19.9.19 Extra (2.30 - 4.30)
* 27.5.19 No lecture (TECHNOFEST)
* 14.10.19 Instructional day for all (Saturday)
* 15.10.19 No lecture (UT2 exam from 16.10.19)

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SESSION PLAN - PRACTICAL/TUTORIAL

Target No of Practicals/Tutorials: 12 **Actually Conducted:** 12 **Beyond Syllabus:** 02

Laboratory Plan

Laboratory Course Plan: B.E. in EXTC 2017-2021

Laboratory Title: **Digital Communication Lab**	Lab Code: **ECL502**
Total Hours: 24 hrs/batch	Duration of SEE Hours: 3
SEE Marks: **25**	CIE Marks: **25**
Lab Plan Author: Prof.BIJU BALAKRISHNAN	Date: 10-07-2019
Checked By: Prof.BIJU BALAKRISHNAN	Date: 10-07-2019

Course Outcomes (COs):

At the end of the course the student should be able to:

CO1: Compare different analog to digital conversion techniques in terms of output quality and bit rate
CO2: Evaluate the performance of various digital modulation techniques
CO3: Apply the base band systems basics to receive the data with minimum error probability
CO4: Design hamming code encoder and decoder for a specific data block size
CO5: Compare different line codes
CO6: Write and present the latest techniques in communication engineering.

Course Articulation Matrix: Mapping of Course Outcomes (CO) with Program Outcomes

Course Title: Digital Communication Lab	Semester:5 - Semester
Course Code:ECL502	Year: 2019-20

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1									3				3	
CO2				3	3				3				3	
CO3	3								3					
CO4	3	3	3		3				3				3	
CO5	3	3			3				3				3	
CO6	3	3		3	3			3	3	3		3	3	

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SESSION PLAN - PRACTICAL/TUTORIAL

Target No of Practicals/Tutorials: 12 **Actually Conducted:** 12 **Beyond Syllabus:** 02

Experiment wise Plan

List of experiments planned to meet the requirements of the course.

Category : Demonstration	Total Weightage: 180.00	No. of lab sessions: 12.00		
Expt	**Experiment**	**No. of Lab Session(s) per batch (estimate)**	**Marks**	**Correlation of Expt with the theory**
1	Study of Pulse Code Modulation and demodulation	1.00	15.00	3
2	Study of Delta Modulation and demodulation	1.00	15.00	3
3	Study of ASK modulation and demodulation and write program for plotting data, carrier and ASK waveforms	1.00	15.00	3
4	Study of PSK modulation and demodulation and write program for plotting data, carrier and PSK waveforms	1.00	15.00	3
5	Study of FSK modulation and demodulation and write program for plotting data, carrier and FSK waveforms	1.00	15.00	3
6	Study of QPSK modulation and demodulation and write program for plotting data, carrier and QPSK waveforms	1.00	15.00	3
7	Study of MSK modulation and demodulation and draw data, carrier and MSK waveforms	1.00	15.00	3
8	Study of baseband transmission and reception	1.00	15.00	3
9	Study of Hamming Code syndrome generation, error detection, and correction using Scilab	1.00	15.00	3
10	Study of different line codes and write scilab program for plotting the waveforms	1.00	15.00	3
11	Paper Presentation	1.00	15.00	3
12	Technical Quiz	1.00	15.00	3

Subject in charge | Session plan coordinator | HOD | Principal

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GAP Analysis:

SIES Graduate School of Technology
Sri Chandrasekarendra Saraswati Vidyapuram
Sector v, Nerul, Navimumbai-400706

Department of Electronics and Telecommunication Engineering
(Second half of 2017)

Class/Sem: TE/V **Div: A & B**
Name of the Subject : Random Signal Analysis **Subject code: ETC-503**

Gap Analysis

Sr No	Gap	Action Taken	Date	Resource person	% students	POs and PSOs
1	Gaussian channel, AWGN and modelling of communication channel	Covered with 2 extra lectures	09-10-17 16-10-17	Prof. Biju Balakrishnan (Internal faculty)	87% 58%	PO1,PO2,PO3,PO4 and PSO2
2	Application of Probability theory in communication Engineering	Covered with 2 extra lectures	10-10-17 17-10-17	Prof. Biju Balakrishnan (Internal faculty)	89% 69%	PO1,PO2,PO3,PO4 and PSO2

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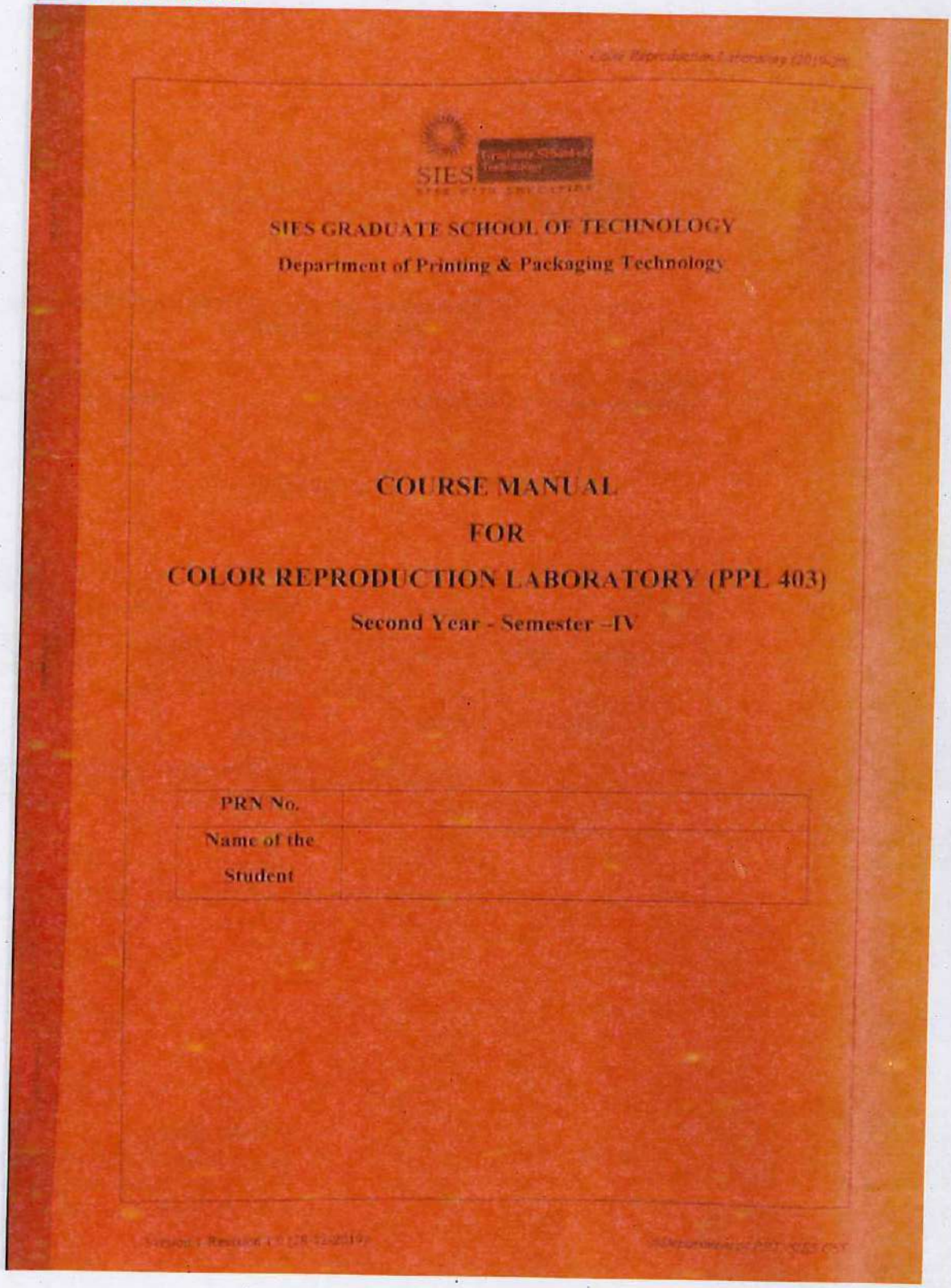
Printed Lab Manual:



SIES GRADUATE SCHOOL OF TECHNOLOGY

Department of Printing & Packaging Technology

COURSE MANUAL

FOR

COLOR REPRODUCTION LABORATORY (PPL 403)

Second Year - Semester –IV

PRN No.	
Name of the Student	

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DEPARTMENT OF PRINTING & PACKAGING TECHNOLOGY

Vision

To be a Premier Department specialized in training & education in the field of Printing and Packaging Technology, striving continuously in pursuit of excellence in Industry – Academia Collaboration, Entrepreneurship and Innovation.

Mission

1. To provide education of the highest quality with industry based training in the applied engineering field of Printing & Packaging Technology at par with international technological practices and trends.

2. To encourage learners to engage in real life problems/situations and cultivate analytical skills, develop creativity and provide practical & innovative solutions to problems.

3. To build a foundation for lifelong learning and instil a sense of stewardship of resources used, as learners progress towards becoming responsible technologists of the future.

4. To become the centre of excellence for packaging & printing technology and establish a vibrant Industry - Academia Interface for training, internship, research and consultancy.

Program Educational Objectives

1. Become professionally excellent in Printing and Packaging Technology to compete at national and international platforms contributing to research and industry.

2. Become a principal professional with good technical and management skills to solve economic, environmental and societal problems.

3. Become an entrepreneur providing solutions to societal & industrial problems.

Program Specific Outcomes

1. To utilize the knowledge of printing & Packaging technology in innovative, dynamic and challenging environment for design and development of new products

2. To provide an ability of collaborative learning to find out cost-effective, optimal solutions for existing and new problems in the printing & packaging field.

Course Outcomes Upon successful completion of this course, the learner will be able to:

1. Match any two given colors under prescribed light source
2. Measure density and compare with the standards.
3. Analyze the color difference between any two given printed samples
4. Measure various vitals of Print quality such as Dot gain, Print contrast, Hue error &Grayness and Trapping
5. Comment on Print quality based on measured values
6. Suggest Corrections required to achieve better print quality

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Year / Sem: _____	**Department:** _____
PRN: _____	**Subject:** _____

CERTIFICATE

This is to certify that above work is satisfactorily completed by

_____

PRN _____

during the academic year 20__ - 20__

as prescribed by University of Mumbai.

Mid Term Submission	**Date:**
Faculty I/c **HOD**	**Remarks**
Final Submission	**Date:**
Faculty I/c **HOD** **Principal**	

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Index Sheet

Year / Sem: _____ Department: _____

PRN: _____ Subject: _____

Sr. No	Particulars	Date	Grade	Faculty Sign & Date

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PRACTICAL NO. 1

AIM: To match two given printed samples under prescribed light source.

INSTRUMENT / DEVICE USED : _____

MATERIAL/SAMPLE: _____

SIGNIFICANCE :

Whenever an object is viewed, the color seen is a result of the color quality of the light source and the reflective characteristics of the object. So, when attempting to achieve an accurate color match using different colorants, colors can appear to match under one light source and then appear significantly different under another light source. Therefore designers, brand owners, and production staff should all evaluate a color under a consistent light source. The D65 daylight source specified in the ASTM D1729-2009 standard displays a full range of spectral energy and provides an ideal viewing environment that can be easily replicated with an ASTM D1729 compliant lighting system. When all parties in the supply chain view a product under standard lighting conditions a satisfactory color match is easily achievable.

The color matching systems (Viewing booth): To bring all stake-holders to an agreement, for the confirmation and approval of job's color & its consistency, a facility is required to be installed with all parties. This facility is called "color matching systems". It is designed to help evaluate and communicate color with absolute confidence. Multiple light sources provide an essential tool for visual color match assessment, comparison of color variation, and detection of metamerism.

They come in variety of sizes to comply with industry standards including ASTM D1729-2009, SAE J361 and BS-950 Part 2 and are supplied with a certificate of product conformance (NIST traceable).

Press activities to work out Ink-matching: To facilitate the common platform for Many times a customer require a specific color other than Cyan, Magenta, Yellow & Black. Depending on the amount of the ink -required, the printer either orders the specific color from the inkmaker or mixes it in the printing plant. Obtaining ink from the ink maker is preferred if the color is a shelf- ink or if the amount required is large. Small amounts of a particular ink can be mixed in the plant. Color charts from an ink maker are extremely helpful.

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Syllabus Completion report

The Syllabus Completion report is taken for all the subjects twice in semester to monitor the curriculum delivery.

Department of Information Technology
SYLLABUS COMPLETION STATUS AS ON FEBRUARY 28, 2020

Class: TE **Div** : E

Faculty / Subject	DMBI	SEPM	CCS	AIP	DF	WN
	Prof. Seema Redekar	Prof. Savita Lohiya	Prof. Mrinal Khadse.	Prof. Samundis wary	Prof. Stuti Ahuja	Dr. K. Lakshmis udha
No of lectures planned	52	52	52	52	52	52
No. of lectures conducted	25	28	27	26	22	26
No of Units completed/ Total	2.8/6	3	4/6	2.8/6	3.5/6	3/6
% syllabus covered as per weightage given in UoM examination.	50%	55%	60%	50%	50%	50%
No. of lectures required to complete remaining syllabus	27	24	25	26	28	26
No. of lectures available up to **03/04/2020**	18	17	16	17	17	17
Days on which lectures are scheduled	Mon,Tue,Wed,Fri	Mon,Tue,Thu,Fri	Mon,Tue,Wed,Thurs	Tue,wed, Thu,fri	Tue,wed, Thu,fri	Mon, Wed, Thur, Friday
Signature of Teacher						
Signature of HOD with remarks:	Extra lectures need to be planned					

28/2/2020

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Department of Information Technology
SYLLABUS COMPLETION STATUS AS ON AUGUST 09, 2019

Class: TE Div : E

Faculty / Subject	Prof. Leena Ladge	Dr. Vijay Katkar	Prof. Seema R	Prof. Mrinal Khadse	Prof. Geetanjali M	Prof. Varsha Mali	Prof. Stuti A
	MEP	InP	ADMT	CNS	BCE	ADSA	IP
No of lectures planned	52	52	52	52	28	52	52
No. of lectures conducted	20	20	19	18	10	18	18
No of Units completed/ Total	1.9/6	2.1/6	1.9/6	1.7/ 6	2.5/6	3/6	2.5/6
% syllabus covered as per weightage given in UoM examination.	38	36	40	30	40	40	35
No. of lectures required to complete remaining syllabus	32	32	33	34	18	34	34
No. of lectures available up to 15/10/19	28	27	23	24	14	27	28
Days on which lectures are scheduled	Tue, Wed, Thu, Fri	Mon , Tue, Wed, Thurs	Mon, Tue, Wed, Thurs	Mon, Wed, Thurs ,Fri	Wed, Fri	Mon, Tue, Thurs , Fri	Mon, Tue, Thurs, Fri
Signature of Teacher	09/08/19		09/08/19				

Signature of HOD with remarks: All requires extra lectures, will be planned on Saturdays. ADMT, CNS needs more lectures

9/8/19

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Weekly class taken Report

The class taken report is generated weekly to monitor the curriculum delivery and also to address the issue faced by students.

SIES GRADUATE SCHOOL OF TECHNOGY, NERUL, NAVI MUMBAI
Department of Computer Engineering
Student Attendance Analysis for First Week (FIRST Half 2020)

Class :BE C **Division:C**

Sr. No.	Subject Name (in Full)	Faculty Name	No of Lectures Assigned	No of Lectures Conducted	Average attendance (%)	No of Stduents having <=50 % attendnace	Roll Numbers of Stduents having <=50% attendance	Sign of faculty
1	ADHOC WIRELESS NETWORK	DR.RAJESH KADU	4	4	63	9	115A1064,217A1097, 98, 01, 02, 03, 13, 14, 15	
2	HUMAM MACHINE INTERACTION	PROF.PREETI GODBOLE	4	3	61%	21	115a1054, 1,10,14,18,20,21,22,24,27,28,29,39,42,43,45,46,48,51,56	
3	NATURAL LANGUAGE PROCESSING	DR.VARSHA PATIL	4	4	66%	24	115A1054, 116A1001, 116A1010, 1116A1012, 1116A1014,1116A1018, 1116A1019,1116A1020, 1116A1021, 1116A1027,1116A1029,1116A1030, 1116A101032, 1116A1036,1116A1039, 1116A1042, 1116A1043, 1116A1045, 1116A1048, 1116A1049, 1116A1051, 1116A1052 ,1116A1056	
4	DISTRIBUTED COMPUTING	DR.DEEPTI REDDY	4	5	60	21	115A1054, 216A1103, 116A1001, 10,18,20,21,22,24,27,28,29,116A1039, 42,43,45,46,48,49,51,56.	

Remark by HoD: First week attendance is poor. students are informed about maintaining attendance & be regular in class.

SIES Graduate School of Technology
Department of Computer Engineering

Student Attendance Analysis for Week 5 (First Half 2020)
Class :TE CE **Division:C**

Sr. No.	Subject Name (in Full)	Faculty Name	No of Lectures Assigned	No of Lectures Conducted	Average attendance (%)	No of Students having <=50 % attendance	Roll Numbers of Stduents having <=50% attendance	Sign of faculty
1	Software Engineering	Prof. Sunil Punjabi	20	18	85%	1	117A1032	
2	System Programming and Compiler Construction	Prof.Prachi Shahane	20	20	74.44	1	117A1032	
3	Cryptography and System Security	Prof.Kalyani Pampattiwar	20	20	74.13%	4	117A1032,48,51,56	
4	Datawarehousing and Mining	Prof.Masooda Modak	20	19	78%	2	117A1032,48	
5	Machine Learning	Prof.Masooda Modak	20	20	79%	3	117A1004,32,48	
6	Enterprise Resource planning	Prof.Namrata P	20	20	79%	NIL		

Mentors Remark:

Ms. Preeti Godabole	Medical leave due to leg fracture (117A1032)
Dr. Aparna Bannore	Roll no 56 - medical leave in 3rd & 4th week
	48 - Siddheshwar nadar - Actively involved in NSS

Remark by HoD:

Sign of Head of the Department:

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Curriculum Enrichment:

Time table with extra lectures:

One compulsory extra lecture is scheduled for subjects which are difficult and need more attention

SIES GRADUATE SCHOOL OF TECHNOLOGY
DEPARTMENT OF HUMANITIES AND APPLIED SCIENCES
Class Timetable (1st Half of 2020)

Class: FE EXTC (A) — **W.e.f: 6th Jan 2020**

Class I/C: Dr. Ram Bhise — **Room No: 319/302**

Day/Time	9.00 to 10.00	10.00 to 11.00	11.00 to 12.00	12.00 to 1.00	1.00 to 1.30	1.30 to 2.30	2.30 to 3.30	3.30 to 4.30	4.30 to 5.30
Monday	CPL (A1) PYM CE L7 PCEL (A2) RKB LL AC (A3) LG IT L1		EM (VPP) 319	EP (GKM) 319	L U N C H	WORKSHOP		EXTRA EG (SJA) 302	
Tuesday	EC (SSK) 319	EG (SJA) 319	CPL (A2) THD CE L7 PCEL (A3) RKB LL AC(A1) SJA ITL1			PCE (RKB) 319	EXTRA EP (GKM) 319	EXTRA CP (PYM) 319	UHV A1 GKM 405
Wednesday	EGC (A1-ASH;A2-SJA) EPL(A3) GKM	ECL(A3) SSK	EM (VPP) 319	CP (PYM) 319		CPL (A3) AVP CE L7 PCEL (A1) RKB LL AC (A2) PLK IT L1		EM Tut. (A1) (VPP) 404	
Thursday	EP (GKM) 302	CP (PYM) 302	EGC (A3) OVP 111 EPL(A1) GKM ECL(A2) SSK	EPL(A2) GKM ECL(A1) SVK	B R E A K	EG (SJA) 319	Physics Project (GKM) 319	EM Tut. (A2) (VPP) 404	
Friday	EM (VPP) 319	PCE (RKB) 319	EC (SSK) 319	EXTRA EM (VPP) 319		EXTRA EC (SSK) 319	UHV A2 (PAS) 405 A3 (SPI) 404	EM Tut. (A3) (VPP) 404	

Name of the Subject:	Name of the Faculty:
1) EM: Engineering Mathematics-II	1) VPP: Prof. Vijaya P. Patil
2) EP: Engineering Physics-II	2) GKM: Dr. G. Kanthimathi
3) EC: Engineering Chemistry-II	3)SSK: Dr. Smitha S Kumar
4) EG: Engineering Graphics	4) SJA: Prof. Siddique Ahmed
5) CP: C Programming	5)PYM: Prof. Pranita Mahajan
6) PCE: Professional Communication and Ethics-I	6) RKB: Dr. Ram Bhise
7) EPL (326): Engineering Physics Lab	7) GKM: Dr. G. Kanthimathi
8) ECL (325): Engineering Chemistry Lab	8)SVK: Dr. Savita Katiyar
9) EGC (111) : Engineering Graphics Conventional	9) ASH: Prof. Ajay , OVP: Prof. Onkar
10) AC: Auto Cad	10) PLK: Prof. Prajakta Kane, LG: Prof. Lokpriya Gayakwad
11) CPL: C Programming Lab	11) AVP: Prof. Amit Pandhare, PHD: Prof. Teja Dhanawade
12) PCEL: Professional Communication and Ethics Lab	12) RKB: Dr. Ram Bhise

Prof.Mahesh Biradar
Timetable I/C

Dr. K Laksmi Sudha
Timetable Coordinator

Dr.Manasi Karkare
Dean FE

Dr.Atul Kemkar
Principal

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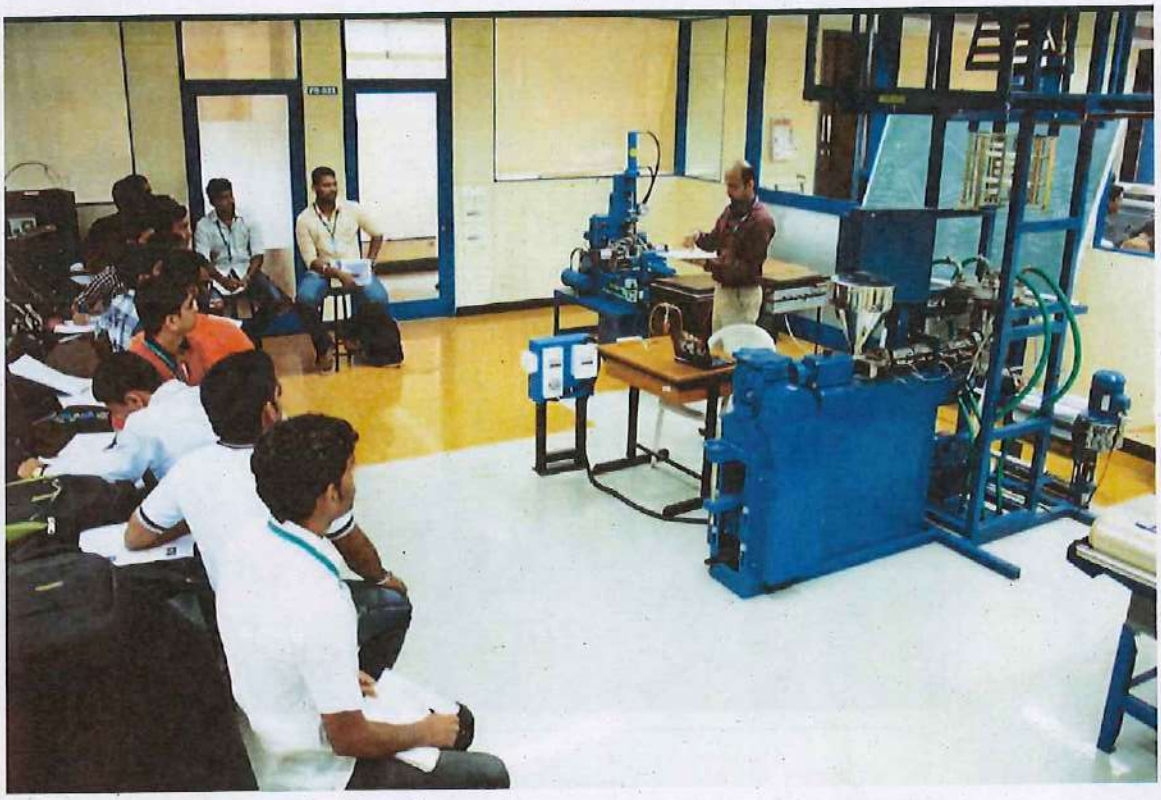
Curriculum Delivery using live case studies and examples:



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Industrial visit to Reliance Jio was organized by Prof.Pranita Mahjan on 21/09/2019.

- Expert lecture by Alumni A. Shyam of EXTC deptt. on Data Analytics & Machine Learning on 19 September 2019 organized by Prof. Swati R. and Prof. Sonal H.

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- Prof. Savita Lohiya organized expert talk on "Artificial Intelligence "by Ms. Sneha Krishna, Software Engineer, Xorient Solutions Pvt.Ltd. for BE-IT students on 21/09/19.

- SAE students team conducted Solidworks workshop for F.E. and S.E.(Mech) students on 30-31 August, 2019.

- **Seekho Samjho Programme by BMPA for PPT students organized on July 21, 2018.**

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Mini – Project Presentation and Poster presentation for TE EXTC Students in the Subject Digital Communication during 2018-19.

Mini Project Presentation:

Poster Presentation:

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Feedback Format

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STUDENT'S FEEDBACK FORM

Instructions:

1. This feedback is anonymous and the confidentiality of information provided will be strictly maintained. It is in the interest of students.
2. Students should not reveal their identity by writing anything in the form.
3. Student should only put the tick mark on the relevant box.
4. The students are expected to give the feedback without any prejudice and with total truthfulness.
5. This feedback is taken with an objective to improve the system by appreciating the good work and also taking corrective actions wherever necessary.

Academic Year :	
Branch :	**Name of the Faculty:**
Class:	**Semester:**
Course/ Subject:	**Date of Feedback:**

Sr. No	Description	Excellent	Very Good	Good	Poor	Very Poor
1	Teachers Subject knowledge					
2	Communication skills of the Teacher					
3	Ability to bring conceptual clarity and promotion of thinking ability					
4	Use of Appropriate teaching methods					
5	Teacher illustrates the concept through examples and applications					
6	Fairness in Internal Evaluation					

	5	4	3	2	1
Give your overall rating:	Excellent	Very Good	Good	Poor	Very Poor
	☐	☐	☐	☐	☐

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Course Exit Survey Format:

WN-Theory-Course Exit Survey-FH2020

Questions Responses 67

WN-Theory-ECC802-Course Exit Survey-

Course exit form for the academic year 2019-20 sem VIII subject WN Division A and B FH2020

Name of the student *

Short answer text

Roll No. *

Short answer text

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Judge the ability with regard to the following points by putting a tick on the scale of 1 (lowest) to 5 (highest), based on the knowledge and skills you attained from this course

Description (optional)

CO-1:Compare various standards and architectures of wireless network *

- 1
- 2
- 3
- 4
- 5

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CO2:Compare Body Area Network and Personal Area Network *

- 1
- 2
- 3
- 4
- 5

CO3:Classify different LAN topologies and technologies. *

- 2
- 3
- 4
- 5

CO4:Design the wireless network by illustrating the fundamentals and architecture of Metropolitan Area Networks *

- 2
- 3
- 4
- 5

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CO5:Compare various wireless adhoc network based on architecture, traffic related protocols and transmission technology *

- 1
- 2
- 3
- 4
- 5

CO6:.Explain the architecture and working of IoT. *

- 1
- 2
- 3
- 4
- 5

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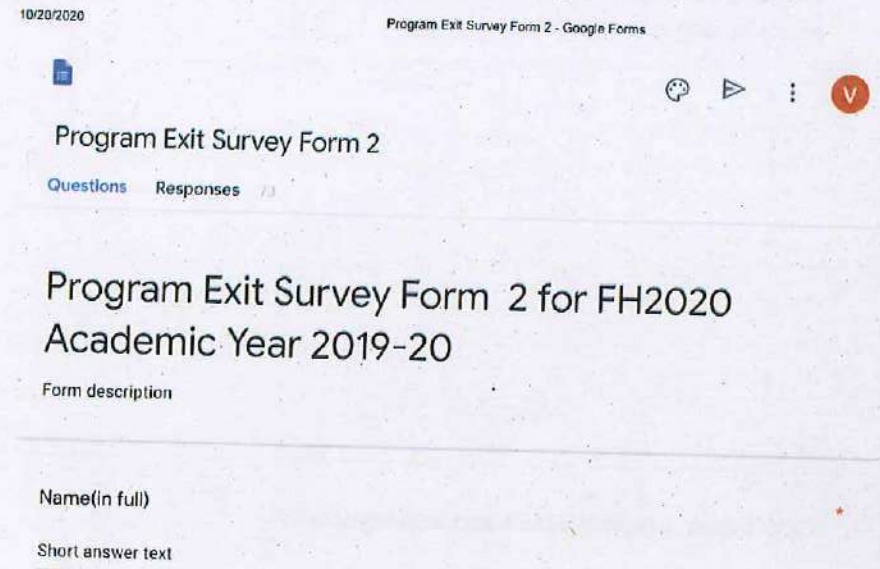
Program Exit Format



10/20/2020 Program Exit Survey Form 2 - Google Forms

Program Exit Survey Form 2

Questions Responses

Program Exit Survey Form 2 for FH2020
Academic Year 2019-20

Form description

Name(in full) *

Short answer text

Roll No *

Short answer text

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Wherever applicable, please click on the option,the extent to which you agree with each of the following statement regarding your program

Description (optional)

Q.1.Are you able to apply principles of science, mathematics and electronics engineering in solving engineering problems ?(PO1). *

- Strong(3)
- Moderate(2)
- Low(1)

Q2.Are you able to analyze problems to search the literature and find out the appropriate solutions to engineering problems?(PO2) *

- Yes(3)
- Can be better(2)
- No(1)

Q3. Are you able to design algorithm ,a system, circuit,component or process with appropriate cultural,societal and environmental considerations?(PO3) *

- Yes(3)
- Somewhat(2)
- No(1)

- Extremely comfortable(3)
- Comfortable(2)
- Uncomfortable(1)

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Q5.Given a new tool and environment how comfortable are you in utilizing it?(PO5) *

- Extremely comfortable(3)
- Comfortable(2)
- Unomfortable(1)

Q.6. Are you aware of responsibilities of the professional engineering practice towards society? (PO6)(Issues related to health , safety, legal & cultural issues) *

- Yes (3)
- Somewhat (2)
- No(1)

Q.7. Are you able to apply the knowledge gained to assess impact of Engineering solution on environment? (PO7) *

- Yes (3)
- Somewhat (2)
- No (1)

Q.8. Are you aware of professional ethical standards & committed to follow them? (PO8) *

- Somewhat (2)
- No (1)

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Q9.How frequently are you able to function effectively on teams to accomplish a common *

- Always(3)
- Frequently(2)
- Occasionally(1)

Q10. Has your graduate program made you corporate ready in terms of communication skills?(PO10) *

- Yes(3)
- Could be better(2)
- No(1)

Q11.Are you able to apply the management principles during execution of projects?(PO11) *

- Strong(3)
- Moderate(2)
- Low(1)

Q.12.have you appeared for any competitive exam? (PO12)(submit related *

- GATE
- GRE

- CAT
- Any other

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Q.13. Do you have got admits for higher studies(PO12)(submit related documents)If yes ,where If,No, do you have any plans to undertake graduate studies eventually *

Short answer text

Q.14. Have you been placed?If yes, where? Are you going to join_-- *

Short answer text

Q.15. Are you involved/participated in following activities during studies at SIES GST & in what capacity(submit related documents) a) Cultural b) Social c) Technical *

Short answer text

Q16.Are yoy member of any professional body e.g.IEEE,IETE.If yes give the membership number and year of membership(Submit related document) *

Short answer text

Q17.Are there any resources or services that you would like to see offered to graduates *

Short answer text

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Q19.PSO1:Are you able to achieve eminence in domains like signal processing, VLSI,embedded IoT, RF & microwave. *

- Strong(3)
- Moderate(2)
- Low(1)

Q20.PSO2:Are you able to become technocrats capable of working in multi disciplinary *

- Strong(3)
- Moderate(2)
- Low(1)

Thank you for sparing your valuable time

Description (optional)

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