

Curriculum Plan & Deployment 2020-21

Sl. No.	Subject Name /Code	Beyond Syllabus	Innovative teaching methods / ICT Tools Used	Deployment Strategy and Tool	Cross-cutting issues integrated	PO	PSO
1.	18BT31 /Biostatistics	-----	Google Classroom and Google meet	Chalk and Talk method	-----	PO1, 2,3,4,5,6,7	PSO1,2,3,4
2.	18BT32/ Microbiology	Seminar	Google Classroom and Google meet	Chalk and Talk method PPT,Project work,Internship	Environmental Sustainability	PO1,2,3,4,6,7,9,10,11,12	PSO1,2,3,4
3.	18BT33 /Unit Operations	-----	Google Classroom and Google meet	Chalk and Talk method PPT	Environmental Sustainability	PO1,2,3,7,9,10,11	PSO 1,2,3,4
4.	18BT34/ Introduction to Biomolecules	-----	Google Classroom and Google meet	Chalk and Talk method, PPT		PO1,2,5,12	PSO1
5.	18BT35/ Cell Biology and Genetics	Seminar	Google Classroom and Google meet	Chalk and Talk method, PPT	Human values	PO1,2,3,4,8,9,11	PSO1,2,3,4
6.	18BT36/ Python Programming	-----	Google Classroom and Google meet	Chalk and Talk method, PPT	-----	PO1, 2,3,4,5,6,7	PSO1,2
7.	18BTL37/Microbiology Laboratory	Conduction of new experiments which are beyond the syllabus	Google Classroom and Google meet	Chalk and Talk method PPT, Project and internship	Environmental Sustainability	PO1,2,3,4,6,7,9,10,11,12	PSO1,2,3,4

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	Reaction Engineering		Classroom and Google meet	PPT	Sustainability		
19.	18BT53/ Enzyme Technology & Biotransformation	-----	Google Classroom and Google meet	Chalk and Talk method, Project and Internship		PO1,2,3,12	PSO 1,2
20.	18BT54/ Genomics & Proteomics	-----	Google Classroom and Google meet	Chalk and Talk method You tube PPT	Human Value and Professional ethics	PO1,2,3,4,8,9,11	PSO1,2,4
21.	18BT55 /Bioanalytical Techniques	-----	Google Classroom and Google meet	Chalk and Talk method, NPTEL Videos, PPT	-----	PO1,2,7,12	PSO1,2,3,4
22.	18BT56 /Genetic Engineering & Applications	-----	Google Classroom and Google meet	Chalk and Talk method, NPTEL Videos, PPT	Ethical issue- Human values	PO1,2,3,6,8	PSO1,2,3,4
23.	18BT57/ Biokinetics & Enzyme Technology Laboratory	-----	Google Classroom and Google meet	Chalk and Talk method Project and Internship	-----	PO 1,2,3,4,9,10,12	PSO1,2
24.	18BT58/ Genetic Engineering and Cell Culture Laboratory	Conduction of new experiments which are beyond the syllabus	Google Classroom and Google meet	Chalk and Talk method, NPTEL Videos, PPT	Ethical issue- Human values	PO3,6,8	PSO1,2,3,4
25.	18BT61 /Process Control & Automation Chemical	-----	Google Classroom and Google meet	Chalk and Talk method PPT	Environmental Sustainability	PO1,2,3,4,5,6,7,9,10,11,12	PSO1,2,3,4
26.	18BT62 /Bioprocess Equipment Design & CAED	-----	Google Classroom and Google meet	Chalk and Talk method PPT	Environmental Sustainability	PO1,2,3,4,5,7,9,10,12	PSO1,2,3,4
27.	18BT63 /Bioinformatics	-----	Google Classroom and Google meet	Chalk and Talk method PPT, Project	-----	PO 1,2,3,10,11,12	PSO 1,2
28.	18BT643/ Human	-----	Google	Chalk and Talk method	-----	PO 1,2,3,10,11,12	PSO 1,2

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	Physiology		Classroom and Google meet	PPT			
29.	18BT653/ Nanobiotechnology	-----	Google Classroom and Google meet	Chalk and Talk method PPT	-----	PO1,2,3,6,12	PSO1,2,3,4
30.	18BTL66 /Process Control & Automation Laboratory	-----	Google Classroom and Google meet	Chalk and Talk method PPT	Environmental Sustainability	PO1,2,3,4,5,7,11	PSO1,2,4
31.	18BTL67/ Bioinformatics Laboratory	Conduction of new experiments which are beyond the syllabus	Google Classroom and Google meet	Chalk and Talk method PPT,Project	-----	PO 1,2,3,10,11,12	PSO 1,2
32.	18BTMP68 /Mini-project	-----	Google Classroom and Google meet	PPT	Environmental Sustainability Human Value and Professional ethics	PO1,2,3,4,5,6,7,8,9,10	PSO1,2,3,4
33.	17BT71 Fermentation Technology	-----	Google Classroom and	Chalk and Talk method, NPTEL Videos, PPT	-----	PO1,3,4,6, 9,10	PSO1,2,3,4
34.	17BT72 Genomics and proteomics	-----	Google Classroom and Google meet	Chalk and Talk method, NPTEL Videos, PPT	Human Value and Professional ethics	PO1,3,6,8	PSO1,2,3,4
35.	17BT73 Plant Biotechnology	-----	Google Classroom and Google meet	Chalk and Talk method You tube PPT,Project and Internship		PO1	PSO1
36.	17BT744 Food Biotechnology	-----	Google Classroom and Google meet	Chalk and Talk method PPT	-----	PO 1,2,3,4,9,10,12	PSO1,2
37.	17BT754 Forensic science	Group Discussion and case studies	Google Classroom and Google meet	Chalk and Talk method PPT	Human Value and Professional ethics	PO1,2,4,6,8,10	PSO1,2,4
38.	17BTL76 Fermentation technology Lab	-----	Google Classroom and	Chalk and Talk method	Environmental Sustainability	PO1,2,3,4,7,11	PSO1,2,3,4

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			Google meet	PPT			
39.	17BTL77 Plant Biotechnology Lab	Conduction of new experiments which are beyond the syllabus	Google Classroom and Google meet	Chalk and Talk method Project and Internship	-----	PO1,2,3,4,9,10,11,12	PSO1,2
40.	17BTL78 Project phase 1 + Seminar	-----	Google Classroom and Google meet	PPT	Environmental Sustainability Human Value and Professional ethics	PO1,2,3,4,5,6,7,8,9,10	PSO1,2,3,4
41.	17BT81 Clinical and pharmaceutical biotechnology	-----	Google Classroom and Google meet	Chalk and Talk method PPT	-----	PO 1,2,3,10,12	PSO1,2
42.	17BT82 Regulatory affairs in Biotechnology	-----	Google Classroom and Google meet	Chalk and Talk method PPT	Human Value and Professional ethics	PO1,2,3,4,6,8,11,12	PSO1,2,4
43.	17BT833 Environmental biotechnology	-----	Google Classroom and Google meet	Chalk and Talk method PPT	Environmental Sustainability	PO1,2,3,4,7,9,11	PSO1,2,4
44.	17BT84 Internship/professional Practices	-----	Google Classroom and Google meet	PPT	Human Value and Professional ethics	PO1,2,3,4,5,6,8,9,10	PSO1,2,3,4
45.	17BT85 Project work Phase	-----	Google Classroom and Google meet	PPT	Environmental Sustainability Human Value and Professional ethics	PO1,2,3,4,5,6,7,8,9,10	PSO1,2,3,4
46.	17BTL86 Seminar	-----	Google Classroom and Google meet	PPT	Environmental Sustainability Human Value and Professional ethics	PO1,2,3,4,5,6,7,8,9,10	PSO1,2,3,4

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DEPARTMENT OF CIVIL ENGINEERING

Curriculum Plan & Deployment 2020-21

Sl.No.	Subject Name /Code	Beyond Syllabus	Innovative teaching methods / ICT Tools Used	Deployment Strategy and Tool	Cross-cutting issues integrated	PO, PSO
1	Engineering Mathematics -III */18MAT31					
2	Strength of Materials/18CV32	concepts of beams to practical approach	-	YouTube video/ Google classroom		po4 pso3
3	Fluid Mechanics/18CV33	Bernoulli's principle for practical applications in air	ppt presentation, ebook	YouTube video/ Google classroom	virtual lab for pipe bursting from nitk	po4 pso3
4	Building Materials and Construction/18CV34	Practical Applications	PPT presentations, Referring realistic Videos	power point presentation		
5	Basic Surveying/18CV35	Practical applications	PPT presentations	power point presentation		po4 pso3
6	Engineering Geology/18CV36	Rocks and minerals practical exposure for better learning		power point presentation		pso4 po4
7	Computer Aided Building Planning & Drawing/18CVL37					
8	Building Materials Testing Laboratory/18CVL38	Practical Applications	-	YouTube video/ Google classroom		pso4 po4
9	Analysis of Determinate Structures/18CV42					
10	Applied Hydraulics/18CV43	wind turbine	experiential learning through fmlab	Google classroom		pso4 po4

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11	Concrete Technology/18CV43					
12	Advanced Surveying/18CV45	Practical applications		YouTube video/ Google classroom		po4 pso3
13	Water Supply & Treatment Engineering/18CV46		Instruments used to Determination of water or waste waste quality by Environmental lab, ppt			Po1, 2,3,4,pso3
14	Engineering Geology Laboratory/18CVL47	Using Geological maps,structural geology models	nptel video	YouTube video/ Google classroom		po4 pso3
15	Fluid Mechanics and Hydraulic Machines Laboratory/18CVL48	virtual lab for pipe bursting from nitk				
16	Construction Management & Entrepreneurship/18CV51	Different Equipment operations	PPT presentations, Referring realistic Videos	YouTube video/ Google classroom	Professional Ethics	po4 pso3
17	Analysis of Indeterminate Structures/18CV52	concepts of beams and frames practical exposure in site	experiential learning through concrete lab	Google classroom		
18	Design of RC Structural Elements/18CV53					
19	Basic Geotechnical Engineering/18CV54		ppt presentation, models demo	Zoom platform		PO1,PO2,PSO1
20	Municipal Wastewater Engineering/18CV55		Instruments used to Determination of water or waste waste quality by Environmental lab, ppt		Environmental Sustainability	Po1, 2,3,4,pso3
21	Highway Engineering/18CV56		Demonstartion of Important concepts using ICT	.PPT/.Youtube videos/Google meet/Google class room		po4 pso3
22	Surveying Practice/18CVL57	Practical Applications	experiential learning through surveylab	YouTube video/ Google classroom		po4 pso3
23	Concrete and Highway Materials	Practical Applications				

	Laboratory/18CVL58					
24	Environmental studies /18CVL59					
25	Design of Steel Structural Elements/18CV61	information of practical application	ppt presentation,ebook	YouTube video/ Google classroom	Environmental Sustainability	
26	Applied Geotechnical Engineering/18CV62		ppt presentation,youtube videos			PO1,PO2,PSO1
27	Hydrology and Irrigation Engineering/18CV63	stream flow routing	nptel video	Zoom platform		
28	Professional Elective - 1/18CV64X	Different Materials		power point presentation		pso4 po4
29	Open Elective - A/18CV65X		ppt presentation,ebook	YouTube video/ Google classroom	Environmental Sustainability	pso4 po4
30	Software Application Laboratory/18CVL66	practical application				
31	Environmental Engineering Laboratory/18CVL76	practical application	ppt presentation,ebook	YouTube video/ Google classroom		pso4 po4
32	Extensive Survey project/18CVP68	practical application				Po1, 2,3,4,pso3
33	Municipal and Industrial Waste Water/18CV71 Engineering		experiential learning through surveylab	Google classroom		Po1, 2,3,4,pso3
			Instruments used to Determination of water or waste waste quality by Environmental lab, ppt			Po1, 2,3,4,pso3
34	Design of RCC and Steel Structures/18CV72	concepts of beams and frames practical exposure in site	experiential learning through concrete lab		Environmental Sustainability	
				.PPT/Google meet/Google class room		pso4 po4
35	Hydrology and Irrigation Engineering/18CV73	stream flow routing	nptel video	power point presentation		pso4 po4
36	Professional Elective- 3/18CV74X		Demonstartion of Important concepts using ICT	.PPT/.Youtube videos/Google meet/Google class room		po4 pso3
37	Professional Elective- 4/18CV75X		Demonstartion of Important concepts using ICT	.PPT/.Youtube videos/Google meet/Google class room	Environmental Sustainability	po4 pso3

38	Environmental Engineering Laboratory/18CVL76	practical application				Po1, 2,3,4,ps03
39	Computer Aided Detailing of Structures/18CVL77	practical application	Demonstartion of Important concepts using ICT	power point presentation		po4 pso3
40	Project Work Phase-I + Project work Seminar/18CVP78					
41	Quantity Surveying and Contracts Management/18CV81	estimation of roads,	-	YouTube video/ Google classroom		po4 pso3
42	Design of Pre Stressed Concrete Elements/18CV82	-	-	YouTube video/ Google classroom		po4 pso3
43	Professional Elective-5/17CV73X/1CV72		Demonstartion of Important concepts using ICT	.PPT/.Youtube videos/Google meet/Google class room		po4 pso3
44	Internship/ Professional Practice/18CV74	practical application		power point presentation		Po1, 2,3,4,ps03
45	Project Work-II/18CVP75					
46	Seminar on current trends in Engineering and Technology/17CVS86					



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DEPARTMENT OF ECE

Curriculum Plan & Deployment 2020-21

Sl.No.	Subject Name /Code	Beyond Syllabus	Innovative teaching methods / ICT Tools	Deployment Strategy and Tool	Cross-cutting issues integrated	PO, PSO
1	Transform calculus Fourier Series and Numerical Techniques / 18MAT31		(i) Google Classroom (ii) Google Meet	(i) Chalk and Talk (ii) Google Class Room (iii) Google Meet with Power	-	PO1, PO2, PO3, PSO2
2	Network Theory/ 18EC32		(i) Google Classroom (ii) Google Meet	(i) Chalk and Talk (ii) Google Class Room (iii) Google Meet with Power	-	PO1, PO2, PO3, PO4, PSO2
3	Electronic Devices/18EC33		(i) Google Classroom (ii) Google Meet	(i) chalk and Talk (ii) Youtube video used to explain the fabrication of		PO1, PO2, PO3, PO10, PO11, PO12, PSO1, PSO2
4	Digital System Design/ 18EC34	(i) Students have registered and participated in NPTEL Course "DIGITAL	(i) Google Classroom (ii) Google Meet	(i) Chalk and Talk (ii) Teaching with Model (iii) Google Class Room		PO1, PO2, PO3, PO7, PO12, PSO1
5	Computer Organisation and Architecture / 18EC35		(i) Google Classroom (ii) Google Meet	(i) Google meet with PPT (ii) Google Class Room		PO1, PO2, PO3, PO10, PO12, PSO1
6	Power Electronics & Instrumentation / 18EC36		(i) Google Classroom (ii) Google Meet	(i) Google meet with PPT (ii) Google Class Room Chalk and talk		PO1, PO2, PO12, PSO1
7	Electronic Devices and Instrumentation Lab / 18ECL37		(i) Google Classroom (ii) Google Meet	(i) Chalk and Talk (ii) Making discrete circuit connection on bread board		PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PO12, PSO1
8	Digital System Design Lab / 18ECL38		(i) Google Classroom (ii) Google Meet	(i) Chalk and Talk, (ii) Digital Trainer kit (iii) Software tool Logi sim		PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO12, PSO1
9	Constitution of India, Professional Ethics and Cyber Law / 18CPC39		(i) Google Classroom (ii) Google Meet	(i) Chalk and talk (ii) Google meet with PPT (iii) Google Class Room		PO8
10	Complex Analysis, Probability and Statistical Methods / 18MAT41		(i) Google Classroom (ii) Google Meet			PO1, PO2, PO3, PSO2
11	Analog Circuits / 18EC42	Simulation of Schmitt trigger, filter design and other opamp circuits and timer circuits	(i) Google Classroom (ii) Google Meet			PO1, PO2, PO3, PO4, PSO2

12	Control System / 18EC43		(i) Google Classroom (ii) Google Meet			PO1, PO2, PO3, PO4, PSO2
13	Engineering Statistics and Linear Algebra / 18EC44		(i) Google Classroom (ii) Google Meet			PO7, PO8, PO9, PO10, PO11
14	Signals and Systems / 18EC45		(i) Google Classroom (ii) Google Meet			PO1, PO2, PO3, PO4, PSO2
15	Microcontroller / 18EC46		(i) Google Classroom (ii) Google Meet	ppts, youtube video		PO1, PO2, PO3, PO12, PSO1
16	Microcontroller Laboratory / 18ECL47		(i) Google Classroom (ii) Google Meet			PO1, PO2, PO3, PO12, PSO1
17	Analog Circuits Lab / 18ECL48		(i) Google Classroom (ii) Google Meet			PO: 1,2,3,4,5,9,10,11,12 PSO1, PSO2
18	Technological Innovation Management and Entrepreneurship / 18EC51		(i) Youtube video on successful entrepreneurs, Business Plan, How to start a business Simulation (ii) Google Classroom (iii) Google Meet	(i) PPT in Google Meet (ii) Youtube video on social responsibilities of Business towards society (iii) Youtube video on successful entrepreneurs, Business Plan, How to start a business	Business Ethics · Human	PO7, PO8, PO9, PO10, PO11
19	Digital Signal Processing / 18EC52	Signal Processing operations using Matlab, filter design using matlab	Signal Processing operations and filter design using Matlab	(i) Chalk and talk method, (ii) PPT in Google Meet (iii) Matlab Software (iv) Google classroom		PO1, PO2, PO3, PO4, PO12, PSO2
20	Principles of Communication Systems / 18EC53	Simulation of AM / FM generation and demodulation using Multisim software. Simulation different types of sampling, aliasing effect. Simulation of PWM	Use of Multisim Simulation Software	(i) PPT in google meet (ii) Google Classroom (iii) Simulation of circuits using Multisim software		PO1, PO2, PO3, PO4, PO10, PO11, PO12, PSO1, PSO2
21	Information Theory & Coding / 18EC54		(i) Google Classroom (ii) Google Meet	(i) Chalk and talk method (ii) YOU TUBE Videos (iii) NPTEL VIDEOS (iv) PPT in google meet (v) Google Classroom		PO1, PO2, PO3, PO10, PO11, PO12, PSO1, 2
22	Electromagnetic Waves / 18EC55			Chalk and talk method, PPT and you tube video links		PO1, PO2, PO3, PO10, PO12, PSO1, PSO2

23	Verilog HDL / 18EC56	Design & Simulation of Digital circuits in Verilog using Xilinx Synthesis tool	Demonstration of Important concepts using XST	PPT, Simulation using Xilinx integrated simulator and synthesis tool		PO1, PO2, PO3, PO10, PSO1
24	Digital Signal Processing Lab / 18ECL57			chalk and talk, modern tool Matlab	-	PO3, PO4, PO5, PO9, PO10, PO12
25	HDL Lab / 18ECL58		(i) Google Classroom (ii) Google Meet	Chalk and talk, PPT, Simulation in Xilinx, Implementation on FPGA Kit		PO: 1, 2, 3, 11, 12; PSO1
26	Environmental Studies / 18CIV59	-	-	(i) PPT in google meet (ii) Google Classroom	Environment Sustainability	PO: 1, 7, 8, 9, 10,
27	Digital Communication / 18EC61		Demonstration of modulation techniques using DPSK, QPSK kits	(i) Chalk and talk method, (ii) PPT in Google Meet (iii) Matlab Software (iv) Google classroom		PO1, PO2, PO3, PO10, PO11, PO12 PSO1, 2
28	Embedded Systems / 18EC62	Simulation of ARM Cortex Instructions & Programs using Keil Software	Simulation using Keil Software	(i) PPT in google meet (ii) Google Classroom (iii) Simulation using Keil Software	-	PO2, PO3, PO5, PSO1
29	Microwave and Antennas / 18EC63			Chalk and talk PPT, NPTEL		PO: 1, 2, 3, 4, 6, 7, 12 PSO1, PSO2
30	Professional Elective / 18EC646	Python Application and Programming / 18EC646	(i) Google Classroom (ii) Google Meet (iii) Jupiter note book			PO1 PO2 , PO10, PO11, PO9 PO12 PSO1, PSO2
31	Open Elective / 18EC65			(i) PPT in google meet (ii) Google Classroom		PO: 1, 2, 3, 4, 6, 7, 12 PSO1, PSO2
32	Embedded Systems Lab / 18ECL66		Simulation using Keil Software	Chalk and talk, PPT, Simulation using Keil		PO1 PO2 , PO3, PO5, PO9 PO10, PO12 PSO1, PSO2
33	Communication Lab / 18ECL67			(i) PPT in google meet (ii) Google Classroom		PO: 1, 2, 3, 4, 6, 7, 12 PSO1, PSO2
34	Microwaves and Antennas / 17EC71			Chalk and talk PPT, NPTEL		PO: 1, 2, 3, 4, 6, 7, 12 PSO1, PSO2
35	Digital Image Processing / 17EC72	simulation of enhancement technique in MATLAB	(i) Google Classroom (ii) Google Meet (iii) Matlab Simulation	Chalk and Talk PPT MATLAB Simulation		PO: 1, 2, 3, 10, 11, 12, PSO2
36	Power Electronics / 17EC73		(i) Google Classroom (ii) Google Meet	Online classes via Google meet platform, Practical sessions, Youtube and NPTEL videos		PO1, PO2, PO3, PO10, PO12, PSO1

37	Multimedia Communication / 17EC741		(i) Google Classroom (ii) Google Meet	Online classes via Google meet platform, Youtube and NPTEL videos		PO1,PO2,PO3,PO11,PO12,PSO1
38	Satellite Communication / 17EC755		(i) Google Classroom (ii) Google Meet	online google meet, Youtube	Environment Sustainability	PO1,PO2,PO3,PO4,PO10,PO11,PO12,PSO1,PSO2
39	Advanced Communication Lab / 17EC76		(i) Google Classroom (ii) Google Meet	(i) PPT in google meet (ii) Google Classroom		PO1,PO2,PO3,PO4,PO10,PO11,PO12,PSO1,PSO2
40	VLSI Lab / 17EC77		(i) Google Classroom (ii) Google Meet	Logical design & Verification Physical Design & verification using Cadence tool		PO1,PO2,PO3,PO4,PO10,PO11,PO12,PSO1,PSO2
41	Wireless Cellular and LTE 4G Broadband / 17EC81		(i) Google Classroom (ii) Google Meet	(i) PPT in google meet (ii) Google Classroom		PO1,PO2,PO3,PO4,PO10,PO11,PO12,PSO1,PSO2
42	Fiber Optics and Networks / 17EC82		(i) Google Classroom (ii) Google Meet	Online classes via Google meet platform, Youtube and NPTEL videos		PO1,PO2,PO12,PSO1,PSO2
43	Professional Elective / 17EC83	Machine learning algorithms are implemented in python	(i) Google Classroom (ii) Google Meet	(i) PPT in google meet (ii) Google Classroom		PO1,PO2,PO3,PO10,PO11,PO12
44	Internship / 17EC84		(i) Google Classroom (ii) Google Meet			PO1,PO2,PO3,PO4,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
45	Project Work / 17EC85		(i) Google Classroom (ii) Google Meet			PO1,PO2,PO3,PO4,PO5,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
46	Technical Seminar / 17EC86		(i) Google Classroom (ii) Google Meet			PO8,PO9,PO10,PO11,PO12,PSO1,PSO2

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