		DON BO	OSCO INSTITUTE O	OF TECHNOLOGY, KURLA, MUMBAI
	FE (BAS	SIC SCIENC	ES AND HUMANITI	(ES) DEPARTMENT, (EVEN SEMESTER, 2020-21)
Course Name:	Engineering Ma	thematics II		
Course Code	FEC201			
	Dr. Revathy S.,	Mr. Satyanar	ayana N and	
Faculty Name:	Ms. Pallavi M	-		
Year	1	Sem	II	
CO Number				Course Outcome
				esenting standard curves in Cartesian and polar coordinate systems (ii) Identify the
FEC201.1				ify standard form of exact and linear differential equations
FEC201.2	particular integral techniques (iv) Pl of coordinate syst	l (ii) Solve the lot the standar tem	e ntegrals with the equal d curves in Cartesian at	nation in appropriate form, obtain integrating factor, complementary function and ations of Beta and Gamma functions (iii) Solve definite integrals using numerical nd Polar oordinate system, locate the region, change order of integration, transformation
FEC201.3	mechanical engin	eering proble	ms	ferential equations using appropriate method and apply it in solving electrical and
FEC201.4	involving the alc integrals (iii) Ana	ulation of leng llyzing error in	gth of a curve, the area avolved using numerica	gral Calculus (single, double and triple integrals) to solve a variety of practical problems and volume bounded by the curves etc. (ii) Apply the principle of DUIS in solving al techniques for evaluating integrals CILAB to trace standard curves, to solve initial value problems and to solve the first order
FEC201.5	differential equati			TLAB to trace standard curves, to solve initial value problems and to solve the first order
FEC201.6	Perform mini pro	jects based on	Application of Mather	matics
Course Name:	Engineering Phy	sics II		
Course Code	FEC202			
Faculty Name:	Dr. Vinod Gokar	rna and Mr.S	ameer Hadkar	
Year	1	Sem	II	
CO Number				Course Outcome
FEC202.1	development tof n developments, an	nodern commund basics of ser	unication technology, b nsing techniques for ph	cepts of core Physics topics like diffraction, fourndation for laser and fibre optics in the basics of electrodynamics, fundamental of relativity, scope of nanotechnology in modern by a significant instruments in mordern instrumentations.
FEC202.2	the developmen to modern developm	of modern cornents, and bas	nmunication technologics of sensing technique	asic concepts of Physics topics like diffraction, fourndation for laser and fibre optics in sy, basics of electrodynamics, fundamental of relativity, scope of nanotechnology in es for physical instruments in mordern instrumentations.
FEC202.3	through slits and	applications, fundamental of	fourndation for laser an of relativity, scope of na	ad explain the principles involved with their engineering disciplines like diffraction and fibre optics in the development of modern communication technology, basics of anotechnology in modern developments, and basics of sensing techniques for physical

				es and apply the fundamental principles of Physics to solve numericals and problems purndation for laser and fibre optics in the developmen tof modern communication		
				f relativity, scope of nanotechnology in modern developments, and basics of sensing		
FEC202.4	techniques for ph	nysical instrum	ents in mordern instrui	mentations.		
				ne experiment performed in topics like diffraction through slits and applications,		
				en tof modern communication technology, basics of electrodynamics, fundamental of		
FEC202.5	relativity, scope of instrumentations		ogy in modern develop	oments, and basics of sensing techniques for physical instruments in mordern		
FEC202.5			mini projects which y	will encourage engineering students to venture into the research field.		
FEC202.0	Students will be	able to periorii	i illilii projects willen v	will encourage engineering students to venture into the research field.		
Course Name:	Engineering Ch	emistry II				
Course Code	FEC203					
Faculty Name:	Ms.Kartiki B.					
Year	1	Sem	II			
CO Number				Course Outcome		
				ntal concepts in the field of corrosion science, fuels chemistry, green chemistry,		
FEC 203.1	spectroscopy and					
EEC 403 4				pectroscopy, green chemistry and will be able to state the properties, advantages, uses of		
FEC 203.2				route of synthesis and spectroscopic methods		
FEC 203.3				isms, fuel quality, green sythesis routes, various types of spectroscopy. ethods for corrosion. Students will be able to justify the need for use of biodiesel/biofuel		
FEC 203.4	and reason out th	ne characteristic	properties required.			
FEC 203.5	Students will be	able to analyze	data, solve numerical	problems based on fuel quality and combustion, Nernst equations and atom economy.		
	Seminar/Group Activity: Students will be able to review research literature, analyse complex problems, present new concepts, ideas, propose					
FEC 203.6	hypothesis, desig	n experiments.		T T T T T T T T T T T T T T T T T T T		
Course Name:	Engineering Gr					
Course Name: Course Code	Engineering Gr FEC204	aphics				
Course Name: Course Code Faculty Name:	Engineering Gr FEC204 Mr. Hemant H.	aphics				
Course Name: Course Code Faculty Name: Year	Engineering Gr FEC204	aphics	II	Course Outcome		
Course Name: Course Code Faculty Name: Year CO Number	Engineering Gr FEC204 Mr. Hemant H.	aphics	II	Course Outcome asics of engineering conventions in engineering drawing as per LS		
Course Name: Course Code Faculty Name: Year CO Number FEC 204.1	Engineering Gr FEC204 Mr. Hemant H. 1 Students will be	Sem able to reprodu	II uce and interpret the ba	asics of engineering conventions in engineering drawing as per I.S		
Course Name: Course Code Faculty Name: Year CO Number	Engineering Gr FEC204 Mr. Hemant H. 1 Students will be a	Sem able to reproduable to demons	II uce and interpret the bastrate the understandir	asics of engineering conventions in engineering drawing as per I.S ng of the fundamental of projection drawing		
Course Name: Course Code Faculty Name: Year CO Number FEC 204.1 FEC 204.2 FEC 204.3	Engineering Gr FEC204 Mr. Hemant H. 1 Students will be a	Sem able to reproduable to demonsable to apply the	II uce and interpret the bastrate the understanding the basics of projection	asics of engineering conventions in engineering drawing as per I.S		
Course Name: Course Code Faculty Name: Year CO Number FEC 204.1 FEC 204.2 FEC 204.3 FEC 204.4	Engineering Gr FEC204 Mr. Hemant H. 1 Students will be a students will be a isometric view of Students will be a students wil	Sem able to reproduable to demons able to apply the machine parts able to draw the	II Ice and interpret the bastrate the understanding the basics of projection as per I.S e intricate of section o	asics of engineering conventions in engineering drawing as per I.S ng of the fundamental of projection drawing drawing to prepare orthographic views, sectional orthographic views and f solid and development of surfaces for the given cutting plane		
Course Name: Course Code Faculty Name: Year CO Number FEC 204.1 FEC 204.2 FEC 204.4 FEC 204.5	Engineering Gr FEC204 Mr. Hemant H. 1 Students will be a students will be a isometric view of Students will be a students will	Sem able to reproduable to demons able to apply the formachine parts able to draw the able to use CA	II uce and interpret the bastrate the understanding the basics of projection is as per I.S e intricate of section on D tool to draw different	asics of engineering conventions in engineering drawing as per I.S ng of the fundamental of projection drawing drawing to prepare orthographic views, sectional orthographic views and f solid and development of surfaces for the given cutting plane t views of a 3D object		
Course Name: Course Code Faculty Name: Year CO Number FEC 204.1 FEC 204.2 FEC 204.3 FEC 204.4	Engineering Gr FEC204 Mr. Hemant H. 1 Students will be a students will be a isometric view of Students will be a students will	Sem able to reproduable to demons able to apply the formachine parts able to draw the able to use CA	II Ice and interpret the bastrate the understanding the basics of projection as per I.S e intricate of section o	asics of engineering conventions in engineering drawing as per I.S ng of the fundamental of projection drawing drawing to prepare orthographic views, sectional orthographic views and f solid and development of surfaces for the given cutting plane t views of a 3D object		

Course Name:	C Programming	:			
Course Code	FEC205				
Faculty Name:	Ms.Deepali K. ,N	Ms. Anagha S	•		
Year	1	Sem	II		
CO Number				Course Outcome	
FEC 205.1	Formulate simple	algorithms fo	or arithmetic, logical pr	oblems and translate them to programs in C language	
FEC 205.2	 		ograms comprising of o		
FEC 205.3			ctions and synthesize a		
FEC 205.4			strings and structures in	<u> </u>	
FEC 205.5			<u> </u>	ers and their applications	
FEC 205.6	Propose a solutio	n to unknown	problem at FE level		
Course Name:	Professional Con	mmunication	and Ethics-I		
Course Code	FEC206				
Faculty Name:	Mr. Sachin Sugh				
Year	1	Sem	II		
CO Number				Course Outcome	
FEC 206.1	andsummarizatio Students will be a	Students will be able to recall and define concepts in grammar which include subject-verb agreement, articles, misplaced modifiers and summarization and comprehension skills Students will be able to explain a) the concept and meaning of communication, communication cycle, barriers to communication, and methods of communication b) rinciples of business letters and the parts and formats of businessletters c) summarize and paraphrase the given text /			
FEC 206.2	passages	, 1		, , , , , , , , , , , , , , , , , , , ,	
FEC 206.3	businessletters, ir	structions and	describing objects and		
FEC 206.4				f development and make use of social etiquettes in professional arena.	
FEC 206.5			he given rubric to evalu	uate the principles of public speaking and communication in a speech	
FEC 206.6	Students will be a a) plan and devel-b) compose busin	op a speech			
Course Name:	Engineering Phy	zsics II	1		
Course Code	FEL201	3103 11			
Faculty Name:	Dr. Vinod Gokai	rna and Mr S	ameer Hadkar	1	
Year	1	Sem	II		
CO Number		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		Course Outcome	
FEL 201.1	Students will hav	e strong skills	in experimental metho		
FEL 201.2	Students will dev			L Az es.	
I LL EVII	Stadelite Will dev	trop proorem	Jornay Jimis.		
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Course Name:	Engineering Ch	emistry II				
Course Code	FEL202					
Faculty Name:	Ms.Kartiki B.					
Year	1	Sem	II			
CO Number				Course Outcome		
				perties and fundamental concepts related to coal analysis, green synthesis of drugs,		
FEL 202.1				metry/flash point / acid value of oil and corrosion study.		
				ss involved in determining the moisture content of coal, green synthesis of aspirin, emf of		
EEL 202.2		emental deteri	mination by flame phot	ometry, /flash point / acid value of oil/ quantitative analysis using potentiometry and		
FEL 202.2	corrosion study.	ماماه ده میسامند	. 41	ns and processes involved in the determining the moisture content of coal, green		
				determination by flame photometry, /flash point / acid value of oil, quantitative analysis		
FEL 202.3	using potentiome			acternination by fiame photometry, mash point acter value of on, quantitative analysis		
1222020				d for determining the moisture content of coal, green synthesis of aspirin, emf of Cu-Zn		
				flash point / acid value of oil, quantitative analysis using potentiometry and corrosion		
FEL 202.4	study					
FEL 202.5	Students will be a	able to perform	n experiments, obtain c	lata, solve numerical problems, analyze data and draw inference on basis of their		
Course Name:	Engineering Gra	aphics				
Course Code	FEL203					
Faculty Name:	Mr. Hemant H.	And Mr. Sach				
Year	1	Sem	II			
CO Number				Course Outcome		
FEL 203.1		Students will be able to reproduce and interpret the basics of engineering conventions in engineering drawing as per I.S				
FEL 203.2	Students will be able to demonstrate the understanding of the fundamental of projection drawing					
FEL 203.3		tudents will be able to apply the basics of projection drawing to prepare orthographic views, sectional orthographic views and				
FEL 203.3	isometric view of machine parts as per I.S Students will be able to draw the intricate of section of solid and development of surfaces for the given cutting plane					
FEL 203.5	Students will be able to draw the intricate of section of solid and development of surfaces for the given cutting plane Students will be able to use CAD tool to draw different views of a 3D object.					
FEL 203.6	Students will be able to use CAD tool to draw different views of a 3D object. Students will be able to use CAD tools to draw an object in 3D.					
1 LL 200.0	Otadents will be a	dbic to use or	to tools to draw all obj			
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Course Name:	C Programming	ī				
Course Name: Course Code	C Programming FEL204	5				
Course Code	FEL204					
			II			
Course Code Faculty Name:	FEL204 Ms.Deepali K. ,	Ms. Anagha S		Course Outcome		
Course Code Faculty Name: Year	FEL204 Ms.Deepali K. ,	Ms. Anagha S Sem	П	Course Outcome		
Course Code Faculty Name: Year CO Number	FEL204 Ms.Deepali K. ,N	Ms. Anagha S Sem lgorithms to a	program	Course Outcome		

FEL 204.4	Represent data in arrays, strings and structures and manipulate them through a program.					
FEL 204.5	Declare pointers and demonstrate call by reference concept.					
FEL 204.6	Propose a solution to unknown problem at FE level					
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		1				
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