DON BOSCO INSTITUTE OF TECHNOLOGY, KURLA, MUMBAI				
FE (BASIC SCIENCES AND HUMANITIES) DEPARTMENT, (EVEN SEMESTER, 2021-22)				
Course Name:	**Engineering Mathematics II**			
Course Code	**FEC201**			
Faculty Name:	**Ms. Sonali J. and Mr. Somnath P.**			
Year	**1**	**Sem**	**II**	
CO Number	**Course Outcome**			
FEC201.1	Students will be able to (i) Identify the equations representing standard curves in Cartesian and polar coordinate systems (ii) Identify			
FEC201.2	Students will be able to (i) Reduce the differential equation in appropriate form, obtain integrating factor, complementary function and			
FEC201.3	Student will be able to solve problems in ordinary differential equations using appropriate method and apply it in solving electrical			
FEC201.4	Student will be able to (i) Apply the principles of Integral Calculus (single, double and triple integrals) to solve a variety of practical			
FEC201.5	Students will be able to solve the differential equation by reducing it to appropriate form.			
FEC201.6	Student will be able to apply open source software SCILAB to trace standard curves, to solve initial value problems and to solve the			

Course Name:	**Engineering Physics II**			
Course Code	**FEC202**			
Faculty Name:	**Dr. Vinod Gokarna and Mr. Sameer Hadkar**			
Year	**1**	**Sem**	**II**	
CO Number	**Course Outcome**			
FEC202.1	Students will be able to grasp and recall the basic concepts of core Physics topics like diffraction, fourndation for laser and fibre optics			
FEC202.2	Students will be able to understand and describe the basic concepts of Physics topics like diffraction, fourndation for laser and fibre			
FEC202.3	Students will be able to relate, integrate knowledge and explain the principles involved with their engineering disciplines like			
FEC202.4	Students will be able to review, elucidate with examples and apply the fundamental principles of Physics to solve numericals and			
FEC202.5	Students will be able to demostrate and conclude on the experiment performed in topics like diffraction through slits and applications,			
FEC202.6	Students will be able to perform mini projects which will encourage engineering students to venture into the research field.			

Course Name:	**Engineering Chemistry II**			
Course Code	**FEC203**			
Faculty Name:	**Ms.Kartiki B. and Ms. Anice M**			
Year	**1**	**Sem**	**II**	
CO Number	**Course Outcome**			
FEC 203.1	Student will be able to define and recall the different engineering chemistry concepts, principles and fundamentals especially in the			
FEC 203.2	Student will be able to describe and explain different engineering concepts and properties involved in the study of fuel chemistry,			

FEC 203.3	Student will be able to reason out and justify the various phenomenon and processes involved in the field of corrosion studies, fuel			
FEC 203.4	Student will be able to analyze experimental data and perform experiment, solve problems and draw inference on basis of their			
FEC 203.5	Student will be able to choose an fuel appropriate,corrosion protection method. Student will be able to comment on and justify the			
FEC 203.6	Seminar/Group Activity : Student will be able to complete a mini project in Engineering Chemistry			
Course Name:	**Engineering Graphics**			
Course Code	**FEC204**			
Faculty Name:	**Mr. Hemant H. and Mr. Sachin S.**			
Year	**1**	**Sem**	**II**	
CO Number	**Course Outcome**			
FEC 204.1	Students will be able to reproduce and interpret the basics of engineering conventions in engineering drawing as per I.S			
FEC 204.2	Students will be able to demonstrate the understanding of the fundamental of projection drawing			
FEC 204.3	Students will be able to apply the basics of projection drawing to prepare orthographic views, sectional orthographic views andisometric view of n			
FEC 204.4	Students will be able to draw the intricate of section of solid and development of surfaces for the given cutting plane			
FEC 204.5	Students will be able to use CAD tool to draw different views of a 3D object			
FEC 204.6	Students will be able to use CAD tools to draw an object in 3D.			
Course Name:	**C Programming**			
Course Code	**FEC205**			
Faculty Name:	**Mr. Imran M. and Ms. Mrudul A.**			
Year	**1**	**Sem**	**II**	
CO Number	**Course Outcome**			
FEC 205.1	Formulate simple algorithms for arithmetic, logical problems and translate them to programs in C language			
FEC 205.2	Implement, test and execute programs comprising of control structures			
FEC 205.3	Decompose a problem into functions and synthesize a complete program.			
FEC 205.4	Demonstrate the use of arrays, strings and structures in C language.			
FEC 205.5	Illustrate the concepts of structures, unions, and pointers and their applications			
FEC 205.6	Propose a solution to unknown problem at FE level			
Course Name:	**Professional Communication and**			
Course Code	**FEC206**			
Faculty Name:	**Mr. Sachin Sughave and Mr. Dipak**			
Year	**1**	**Sem**	**II**	

CO Number	Course Outcome
FEC 206.1	Students will be able to recall and define concepts in grammar which include subject-verb agreement, articles, misplaced modifiers
FEC 206.2	Students will be able to explain a) the concept and meaning of communication, communication cycle,barriers to communication ,and
FEC 206.3	Students will be able to make use of appropriate grammatical concepts and principles of effective communication while writing
FEC 206.4	Students will be able to identify the importance of self development and make use of social etiquettes in professional arena.
FEC 206.5	Students will be able to apply the given rubric to evaluate the principles of public speaking and communication in a speech
FEC 206.6	Students will be able to

Course Name:	**Engineering Physics II**			
Course Code	**FEL201**			
Faculty Name:	**Dr. Vinod Gokarna and Mr.Sameer Hadkar**			
Year	**1**	**Sem**	**II**	

CO Number	Course Outcome
FEL 201.1	Students will be able to perform the experiments based on diffraction through slits using Laser source and analyze the results
FEL 201.2	Students will be able to perform the experiments using optical fibre to measure numerical aperture
FEL 201.3	Students will be able to perform the experiments using ultrasonic distance meter.
FEL 201.4	Students will be able to perform the experiments using Laser source and analyze the results
FEL 201.5	

Course Name:	**Engineering Chemistry II**			
Course Code	**FEL202**			
Faculty Name:	**Ms.Kartiki B. and Ms. Anice M**			
Year	**1**	**Sem**	**II**	

CO Number	Course Outcome
FEL 202.1	Students will be able to define and recall different properties and fundamental
FEL 202.2	Students will be able to describe the procedure/ process involved in determining
FEL 202.3	Students will be able to explain the various mechanisms and processes involved
FEL 202.4	Students will be able to reason out and justify the need for determining the
FEL 202.5	Students will be able to perform experiments, obtain data, solve numericalproblems,

Course Name:	**Engineering Graphics**			
Course Code	**FEL203**			
Faculty Name:	**Mr. Hemant H. and Mr. Sachin S.**			
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	Students will be able to apply the basics of projection drawing to prepare orthographic views, sectional orthographic views andisometric view of n
FEL 203.4	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 use CAD tool to draw different views of a 3D object.
FEL 203.6	Students will be able to use CAD tools to draw an object in 3D.

Course Name:	**C Programming**			
Course Code	**FEL204**			
Faculty Name:	**Mr. Imran M., Ms. Sana S. and Ms.**			
Year	**1**	**Sem**	**II**	

CO Number	Course Outcome
FEL 204.1	Translate given algorithms to a program
FEL 204.2	Correct syntax and logical errors.
FEL 204.3	Write iterative as well as recursive programs.
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

Course Name:	**Professional Communication and**			
Course Code	**FEL205**			
Faculty Name:	**Mr. Sachin Sughave and Mr. Dipak**			
Year	**1**	**Sem**	**II**	

CO Number	Course Outcome
FEL 205.1	Students will be able to recall and define concepts in grammar which include subject-verb agreement, articles, misplaced modifiers
FEL 205.2	Students will be able to explain a) the concept and meaning of communication, communication cycle,barriers to communication ,and
FEL 205.3	Students will be able to make use of appropriate grammatical concepts and principles of effective communication while writing
FEL 205.4	Students will be able to identify the importance of self development and make use of social etiquettes in professional arena.
FEL 205.5	Students will be able to apply the given rubric to evaluate the principles of public speaking and communication in a speech
FEL 205.6	Students will be able to a) plan and develop a speech b) compose business letters