

DON BOSCO INSTITUTE OF TECHNOLOGY, KURLA, MUMBAI**FE (BASIC SCIENCES AND HUMANITIES) DEPARTMENT, (EVEN SEMESTER, 2022-23)**

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, foundation for laser and fibre optics		
FEC202.2	Students will be able to understand and describe the basic concepts of Physics topics like diffraction, foundation 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 demonstrate 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	Students will be able to define and recall the fundamental concepts in the field of corrosion science, fuels chemistry, green chemistry,		
FEC 203.2	Students will be able to state principles of corrosion, spectroscopy, green chemistry and will be able to state the properties,		

FEC 203.3	Students will be able to explain the corrosion mechanisms, fuel quality, green synthesis routes, various types of spectroscopy.		
FEC 203.4	Students will be able to suggest appropriate control methods for corrosion. Students will be able to justify the need for use of		
FEC 203.5	Students will be able to analyze data, solve numerical problems based on fuel quality and combustion, Nernst equations and atom		
FEC 203.6	Seminar/Group Activity : Students will be able to review research literature, analyse complex problems, present new concepts, ideas,		
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 and isometric 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 concepts related to coal analysis, green synthesis of		
FEL 202.2	Students will be able to describe the procedure/ process involved in determining the moisture content of coal, green synthesis of		
FEL 202.3	Students will be able to explain the various mechanisms and processes involved in the determining the moisture content of coal, green		
FEL 202.4	Students will be able to reason out and justify the need for determining the moisture content of coal, green synthesis of aspirin, emf of		
FEL 202.5	Students will be able to perform experiments, obtain data, solve numerical problems, analyze data and draw inference on basis of their		
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 and isometric 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		