**DON BOSCO INSTITUTE OF TECHONOLGY, KURLA, MUMBAI**

| Course Name: | Applied Mathematics II | |
|---|---|---|
| Course Code | FEC201 | |
| Faculty Name: | Pranjalee K.,Sonali J.,Pallavi M. | |
| Year | 1 | Sem | II |

| CO Number | Course Outcome |
|---|---|
| FEC 201.1 | Describe and identify exact and linear differential equations, standard curves, Beta and Gamma functions. |
| FEC 201.2 | Explain the applications of differential equations in engineering problems and plot the curves in different coordinate systems. |
| FEC 201.3 | Solve problems in ordinary differential equations and integral calculus analytically and numerically. |
| FEC 201.4 | Apply open source software to trace standard curves, solve problems in numerical differentiation and integration. |
| FEC 201.5 | Compare the integrals with the equations of Beta and Gamma functions. |

| Course Name: | Applied Physics II | |
|---|---|---|
| Course Code | FEC202 | |
| Faculty Name: | Jyoti Nimbhorkar and Sameer Hadkar | |
| Year | 1 | Sem | II |

| CO Number | Course Outcome |
|---|---|
| FEC 202.1 | Students will identify and understand the fundamental physical principles of topics like Interference, Diffraction, LASER, Fibre Optics and Charged particles in electric & magnetic field. They will understand electrodynamics, Maxwell's equations and their applications. |
| FEC 202.2 | Students will be able to integrate knowledge of the above mentioned Physics topics with their respective engineering disciplines to understand engineering devices and processes – a prerequisite to become successful engineer. |
| FEC 202.3 | Students will be able to apply fundamental principles of Physics to solve numericals and problems encouraging them to venture into the research field by assimilating knowledge of nanotechnology and the tools used in it. |
| FEC 202.4 | Students will be able to demostrate and / or communicate through tests and experiments conducted in the laboratory. |

| Course Name: | Applied Chemistry II | |
|---|---|---|
| Course Code | FEC 203 | |
| Faculty Name: | Kartiki B. and Anice M. | |
| Year | 1 | Sem | II |

| CO Number | Course Outcome |
|---|---|
| FEC 203.1 | Student will be able to define and explain the different engineering chemistry concepts and fundamentals especially in the field of corrosion science, fuels chemistry, green chemistry, materials science. |
| FEC 203.2 | Student will be able to reason out, justify and describe the various phenomenon and processes involved in the field of corrosion science, fuel chemistry , materials science and  will also be able to integrate it with various engineering disciplines. |
| FEC 203.3 | Student will be able to solve numerical problems based on their understanding of topic fuel. |
| FEC 203.4 | Student will be able to obtain data, analyze, interpret and infer on basis of experiments or given situation. |

| Course Name: | Engineering Drawing | |
|---|---|---|
| Course Code | FEC 204 | |
| Faculty Name: | Atul L, Juned A, Georgena  G | |
| 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 machine parts as per I.S |
| FEC 204.4 | Students will be able to draw the intricate of section of solid and development of surfaces for the given cutting plane |

| Course Name: | Structured Progamming Approach | |
|---|---|---|
| Course Code | FE C205 | |
| Faculty Name: | Deepali Kayande, Mahalaxmi Sridhar, Yogesh Gholap | |
| Year | 1 | Sem | II |

| CO Number | Course Outcome |
|---|---|
| FEC205.1 | Illustrate the basic terminology used in computer programming |
| FEC205.2 | Illustrate the concept of data types, variables and operators using C. |
| FEC205.3 | Design and Implement control statements and looping constructs in C. |
| FEC205.4 | Apply function concept on problem statements. |
| FEC205.5 | Demonstrate the use of arrays, strings, structures and files handling in C. |
| FEC205.6 | Demonstrate the dynamics of memory by the use of pointers to construct various data structures. |

| Course Name: | Communication Skills | |
|---|---|---|
| Course Code | FEC 206 | |
| Faculty Name: | Jeffi T, Renjith V, Vishal B | |
| 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, passive and active voice and summarization and comprehension skills |
| FEC 206.2 | Students will be able to explain_x000D_<br>a) the concept and meaning of communication, communication cycle, barriers to communication and methods and networks of communication_x000D_<br>b) principles of business letters and the parts and formats of business letter_x000D_<br>c) techniques to define objects and write instructions |
| FEC 206.3 | Students will be able to apply the knowledge of business letters to frame sentences and make use of the concept of active and passive voice while writing instructions and descriptions of process/object |
| FEC 206.4 | Students will be able to evaluate the principles of public speaking and communication in a speech using the given rubrics |
| FEC 206.5 | Students will be able to _x000D_<br>a) plan and develop a speech_x000D_<br>b) compose business letters_x000D_<br>c) design a blog |