**SSGMCE SHEGAON**

**DEPARTMENT OF ELECTRICAL ENGINEERING**

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# COURSE OUTCOMES OF ALL COURSES OF SECOND SEMESTER BE ELECTRICAL (ELECTRONICS & POWER)

## 1B1 ENGINEERING MATHEMATICS – II

After completing this course, student will be able to

1. Use matrices for solving system of simultaneous linear equations, Find Eigen values and Eigen vectors of the matrix. Find inverse of matrix by various methods
2. Find the Fourier expansion of periodic and non-periodic functions
3. Explain curve tracing with justification which are useful in applications of integration. Use technique of Differentiation under integral sign to evaluate integrals. Find Product of Vectors
4. Acquire knowledge about Gamma & Beta function, Reduction Formulae and rectification
5. Evaluate double integral and its application to find area
6. Evaluation and application of triple integrals in Engineering problems

## 1B2 ENGINEERING CHEMISTRY

After completing this course, student will be able to

1. Identify the various methods of water softening along with application of water and its quality parameters for the use of water in industry
2. Explain the various types of corrosion, its control methods and battery technology
3. Identify the various materials such as Cement, lubricant, Ceramics, Refractory, Nonmaterial
4. used for future technology with their application in day-to-day life
5. Identify the fuel for IC engines and their characteristics with respect to its working
6. To utilize the knowledge about polymer and engineering materials towards different applications
7. To provide the knowledge about Metallurgy and analytical techniques

**1B3 BASIC ELECTRICAL ENGINEERING**

After completing this course, student will be able to

1. Solve numerical on basic electric and magnetic circuits.
2. Apply AC fundamentals to analyse single phase & three phase circuits.
3. Explain the operating principles of various electrical machines
4. Explain the working of various measuring instruments and importance of earthing.

**1B4 ENGINEERING GRAPHICS**

After completing this course, student will be able to

1. read/prepare/understand the engineering drawings
2. create the projections and sectional views of 3D objects
3. draw the orthographic and isometric views of 3D objects
4. use graphics software to create Engineering drawings and represent engineering systems

**1B5 ENGLISH COMMUNICATION SKILLS LABORATORY**

After completing this course, student will be able to

1. The learning outcome of students will be assessed through assignments, tests and final exams and most importantly through practical performances.
2. Through these tests, it would be revealed that students are able to reproduce their understanding of concepts/principles of communication in English language.
3. Students can present themselves well in front of large audience on a variety of topics. Moreover, they get the knack for structured conversation to make their point of views clear to the listeners.