

Department of Science & Humanities (First Year)

Course Outcomes

MSBTE prescribed syllabus, as per the Scheme 'G'

Semester – I

Abbreviation	Subject	Code
ENG –	English	(17101)
	<ol style="list-style-type: none">1) Understand English - the language as a medium of expressing oneself and being global language, use it in all spheres of life – Personal, Professional and Social.2) Developing the vocabulary.3) Learn and apply rules of grammar.4) Comprehend the given unseen paragraph.	
EPH –	Basic Physics	(17102)
	<ol style="list-style-type: none">1) Understand the method of selection of material for intended purpose.2) Application of knowledge of heat conductors (good and bad conductors of heat) in various engineering concepts.3) Understand the effect of interference between the waves of light.4) Application of knowledge of wave motion and resonance in various engineering applications.5) Application of concept photoelectric effect for application like Photoelectric cell and Solar cell.	
ECH –	Basic Chemistry	(17103)
	<ol style="list-style-type: none">1) Understand the concept of valence electron and valency of elements.2) Application of knowledge of electrolysis in engineering applications.3) Understand the formation process/reactions of various molecules.4) Application of the properties of metals and alloys in engineering field.5) Understand the use of non-metallic material in engineering field.	
BMS –	Basic Mathematics	(17104)
	<ol style="list-style-type: none">1) Apply the Cramer's rule and Matrix method to solve simultaneous equations in three variables.2) Use concept of allied angle, compound angle, multiple and sub-multiple angles to solve engineering problems.3) Use factorization and de-factorization formulae to solve examples.4) Understand the relationship of two variables.	

Semester – II

Abbreviation	Subject	Code
CMS –	Communication Skills	(17201)
	<ol style="list-style-type: none">1) Utilize the skills necessary to be a competent communicator.2) Select and apply the appropriate methods of communication in various situations.	
APH –	Applied Physics	(17210)
	<ol style="list-style-type: none">1) Understand laws and principles of electrical circuits.2) Classify solids on the basis of semiconductor band theory.3) Understand principles of Laser and its applications in engineering fields.4) Identify superconductor and its types.5) Understands applications of nanoparticles in engineering field.	
ACH –	Applied Chemistry	(17211)
	<ol style="list-style-type: none">1) Select proper type of cell based on the requirement in electronics and computer engineering.2) Apply knowledge of extraction, properties of copper and aluminium in engineering applications.3) Know various insulating or dielectric materials used in for electronic equipments and computers.4) Generalize different factors which affect atmospheric as well as electrochemical corrosion.	
EMS –	Engineering Mathematics	(17216)
	<ol style="list-style-type: none">1) Use complex numbers for representing different circuit component in complex form to determine performance of electrical circuit and machines.2) Apply rules and methods of differential calculus to solve problems.3) Apply various numerical methods to solve algebraic and simultaneous equations.	
DLS –	Development of Life Skills	(17010)
	<ol style="list-style-type: none">1) Understand and appreciate importance of life skills.2) Use self-analysis and apply techniques to develop personality.3) Use different search techniques for gathering information and working effectively.4) Improve the presentation skills.	