



EXCEL ENGINEERING COLLEGE

(Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NBA (AERO, CSE, ECE, MECH), NAAC with "A+" and Recognised by UGC (2f & 12B)

KOMARAPALAYAM – 637303

Academic Year 2022 - 2023

1.1.1 Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution:

Classification / Mapping of Course with their societal needs

Course code and name	Local needs	Regional Needs	National Needs	Global Needs
B.E SFE Regulation 2020				
20MA105 - Mathematics – I for Mechanical Sciences		✓	✓	✓
20EC103 - Basics of Electrical and Electronics Engineering	✓		✓	✓
20SF101 - Fire Engineering Fundamentals	✓		✓	✓
20CH103 - Chemistry for Mechanical Sciences		✓	✓	✓
20ME101 - Engineering Graphics			✓	✓
20MC101 - Induction Programme	✓		✓	✓
20ENE01 - Communicative English	✓	✓	✓	✓
20ENE02 - Advanced Communicative English	✓	✓	✓	✓
20MA205 - Mathematics – II for Mechanical Sciences			✓	✓
20ME201 - Engineering Mechanics			✓	✓
20PH203 - Physics for Mechanical Sciences			✓	✓
20CS201 - Problem Solving using Python			✓	✓
20SF201 - Safety Engineering Practices Laboratory	✓		✓	✓
20ENE03 – Hindi	✓		✓	✓
20ENE04 – French			✓	✓
20ENE05 – German			✓	✓
20MA301 - Transforms and Boundary Value Problems			✓	✓
20SF301 - Principles of Safety Management	✓		✓	✓
20SF302 - Principles of Chemical Process			✓	✓
20SF303 - Manufacturing Technology and Safety Management			✓	✓
20SF304 - Safety in Electrical Systems	✓		✓	✓
20SF305 - Fluid Mechanics and Fluid Flow Machinery			✓	✓
20SF306 - Safety Elements Drawing			✓	✓
20SF307 - Manufacturing Technology Laboratory			✓	✓
20MC302 - Interpersonal skills	✓	✓	✓	✓
20MA401 - Numerical Analysis and Statistics			✓	✓
20SF401 - Basic concepts of Fire Engineering	✓		✓	✓
20SF402 - Strength of Materials			✓	✓
20SF403 - Thermal Engineering		✓	✓	✓
20SF404 - Professional Ethics and Human Values	✓	✓	✓	✓
20SF405 - Occupational Health and First Aid	✓	✓	✓	✓
20SF406 - Thermal Engineering Laboratory		✓	✓	✓



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20SF407 - Electrical Safety Laboratory	✓		✓	✓
20MC401 - Soft Skills	✓	✓	✓	✓
20SF501 - Design of Fire Protection Systems			✓	✓
20SF502 - Equipments of Fire Engineering			✓	✓
20SF503 - Chemical Process Safety			✓	✓
20SF304 - Safety in Construction	✓		✓	✓
20SF305 - Fire safety Engineering Laboratory	✓		✓	✓
20SF306 - Chemical Engineering Laboratory			✓	✓
20SF601 - Process Instrumentation and Control			✓	✓
20SF602 - Hazard Control In Manufacturing			✓	✓
20SF603 - Legal aspects of Safety	✓		✓	✓
20SF604 - Environmental Laboratory	✓	✓	✓	✓
20SF605 - Mini Project			✓	✓
20SF606 - Internship	✓	✓	✓	✓
20SFE01 - Industrial Noise and Vibration Control		✓	✓	✓
20SFE02 - Introductory Design of Structures			✓	✓
20SFE03 - Computational Fluid Dynamics			✓	✓
20SFE04 - Plant Layout and Materials Handling		✓	✓	✓
20SFE05 - Work Study and Ergonomics		✓	✓	✓
20SFE06 - Human Factors in Engineering		✓	✓	✓
20SFE07 - Power Plant Engineering		✓	✓	✓
20SFE08 - Industrial Ecology		✓	✓	✓
20SFE21 - Fluid Power Safety			✓	✓
20SFE22 - Safety in Health Care-Waste Management	✓	✓	✓	✓
20SFE23 - Reliability Engineering			✓	✓
20SFE24 - 3D Printing Technology			✓	✓
20SFE25 - Maintenance Engineering	✓	✓	✓	✓
20SFE26 - Safety in Mines			✓	✓
20SFE27 - Safety in Textile Industry			✓	✓
20SFE28 - Computer Aided Hazard Analysis			✓	✓
20SFE29 - Safety in Engineering Industry		✓	✓	✓
20SFE30 - Legal Aspects of HSE		✓	✓	✓
20SFE31 - Safety in Bio Engineering		✓	✓	✓
20SFE41 - Explosives Technology and Safety	✓	✓	✓	✓
20SFE42 - Fire Dynamics		✓	✓	✓
20SFE43 - Life Safety in Building Fire	✓		✓	✓
20SFE44 - Design of Fire Fighting and Protection Systems			✓	✓
20SFE45 - Fire Risk Calculations			✓	✓



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20SFE46 - Fire and Arson Investigation			✓	✓
20SFE47 - Automobile Engineering and Safety	✓	✓	✓	✓
20SFE48 - Fireworks Safety	✓	✓	✓	✓
20SFO01 - Food and Bio-safety	✓	✓	✓	✓
20SFO02 - Disaster management	✓	✓	✓	✓
20SFO03 - Personality Management	✓	✓	✓	✓
20SFO04 - First Aid and Emergency Procedures	✓	✓	✓	
20SFO05 - Principles of Industrial management			✓	✓
20SFO06 - Industrial Safety and Environment Acts			✓	✓
20SFA01 - Intellectual Property Rights			✓	✓
20SFA02 - Statistical Methods for Engineers*		✓	✓	✓
20SFA03 - Factories Act		✓	✓	✓
20SFA04 - CNC Programming			✓	✓
20SFA05 - Fire Extinguisher	✓	✓	✓	✓
20MEA01 - Lean Manufacturing			✓	✓
20MEA03 - Processing Tooling Assembly and Testing			✓	✓
	Prepared by	Reviewed by	Approved By	
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