EXCEL ENGINEERING COLLEGE
(Autonomous)
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NBA (AERO, CSE, MECH, ECE), NAAC with "A⁺" and Recognised by UGC (2f &12B)
KOMARAPALAYAM - 637303

1.1.1Curriculadevelopedandimplementedhaverelevancetothelocal,national,regionalandglobalde velopmentalneedswhichrereflectedinProgrammeOutcomes(POs),Programme SpecificOutcomes(PSOs)andCourseOutcomes(COs)ofthevariousProgrammesofferedbytheInstituti on:

Classification/MappingofCoursewiththeirsocietalneeds

Coursecodeandname	Localneeds	RegionalNeeds	National Needs	GlobalNeeds
B.EBME Regulation2017				
BM8076-Electrical Safety and Quality Assurance	✓	✓		
BM8006-Ergonomics	✓			
BM8075-Brain Computer Interface and its Applications			✓	✓
EC8791-Embedded and Real time Systems	✓	✓		
GE8073-Fundamentals of Nanoscience		✓		
BM8079-Virtual Reality and Augmented Reality			✓	✓
BM8077-Hospital Waste Management	✓	✓		
GE8076-Professional Ethics in Engineering			✓	✓
BM8005-Neural Engineering	✓	✓		
BM8073-Biometric Systems	✓	✓		
BM8811-Project work	✓	✓		
BM8701-Diagnostic and Therapeutic Equipment - II	✓	✓		
EC8093-Digital Image Processing	✓	✓		
BM8702-Radiological Equipments	✓	✓		
BM8703-Rehabilitation Engineering	✓	✓		
MD8752-Physiological Modeling	✓	✓		
BM8004-Robotics in Medicine			✓	✓
CS8081-Internet of Things		✓	✓	
BM8078-Soft Computing Techniques	✓	✓		
GE8072-Foundation Skills in Integrated Product Development	✓	✓		
GE8071-Disaster Management			✓	✓

Subject				
MD8751-Hospital Training	✓	✓		
BM8601-Diagnostic and Therapeutic Equipment -I	✓	✓		
BM8651-Biomechanics	✓	✓		
GE8291-Environmental Science and Engineering			✓	✓
MD8091-Hospital Management	✓	✓		
EC8681-Microprocessors and Microcontrollers Laboratory	✓	✓		
BM8611-Diagnostic and Therapeutic Equipment Laboratory	✓	✓		
BM8612-Mini Project	✓	✓		
BM8074-Mini Project	✓	✓		
BM8074-Biosignal Processing		✓	✓	
BM8002-Artificial organs and Implants		✓	✓	
BM8071-Telehealth Technology		✓	✓	
BM8003-Biofluids and Dynamics		✓	✓	
GE8075-Intellectual Property Rights		✓	✓	
HS8581-Professional Communication	✓	✓		
EC8394-Analog and Digital Communication	✓	✓		
BM8501-Biocontrol Systems	✓	✓		
BM8502-Biomedical Instrumentation		✓	✓	
EC8553-Discrete-Time Signal Processing	✓	✓		
BM8071-Bio MEMS	✓	✓		

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Course				
EC8075-Nano Technology and Applications	✓	✓		
BM8072-Biometerials		✓	✓	
BM8001-Medical Optics		✓	✓	
GE8077-Total Quality Management		✓	✓	
GE8074-Human Rights		✓	✓	
B.E BME Regulation2020				
20MA402-Probability and Stochastic Process	✓	✓		
20BM401-Digital Electronics	✓	✓		
20BM402-Medical and Radiation Physics	✓	✓		
20BM403-Healthcare Data Analytics		✓	✓	
20BM404-Pathology and Microbiology		✓	✓	
20CS407-Data Structure using Object Oriented Programming	✓	✓		
20MC401-Soft Skills			✓	✓
20MA302-Partial Differential Equation and Linear Algebra	✓	✓		
20BM301-Signals and Systems for Bioengineers	✓	✓		
20BM302-Circuit Theory	✓	✓		
20BM303-Electronic Device and Circuits	✓	✓		
20BM304-Biosensors and Measurements	✓	✓		
20BM305-Human Anatomy and Physiology	✓	✓		
20BM306-Electronic Devices and Circuits Laboratory	✓	✓		
20MC301-Environmental Sciences		✓	✓	

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Course				
20MA201-Mathematics – II for Electrical Sciences	✓	✓		
20BM201-Biochemistry	✓	✓		
20ENE02-Advanced Communicative English			✓	✓
20ENE03-Hindi		✓	✓	
20ENE04-French			✓	✓
20ENE05-German			✓	✓
20CH202-Chemistry for Electrical Sciences	✓	✓		
20ME203-Engineering Graphics	✓	✓		
20BM202-Biochemistry Laboratory	✓	✓		
20MC202-Interpersonal Skills		✓	✓	
20MA101-Mathematics – I for Electrical Sciences	✓	✓		
20BM101-Basics of Electrical and Biomedical Engineering	✓	✓		
20ENE01-Communicative English	✓	✓		
20ENE02-Advanced Communicative English		✓	✓	
20PH102-Physics for Electrical Sciences	✓	✓		
20CS102-Problem Solving using Python		✓	✓	
20BM102-Biomedical Engineering Practices Laboratory	✓	✓		
20MC101-Induction Programme	✓	✓		

	Preparedby	Reviewedby	Approved By
SIGN			
NAME	Dr. G. PRAKASH	Dr. B. BALASUBRAMANIAN	

BME