

## B. Tech MECHANICAL ENGINEERING ROAD MAP of 2023 – 2027

1 - 1	MA101BS Matrices and Calculus	PH102BS Applied Physics	ME103ES C Programmin g and Data Structures	ME104E S Enginee ring Worksh op	EN105HS English for Skill Enhance ment	ME106ES Elements of Mechanical Engineering	PH107BS Applied Physics Laboratory	CS109ES C Programmi ng and Data Structures Laboratory	EN109HS English Language and Communi cation Skills Laboratory	*MC110 Environme ntal Science		
1 - 2	MA201BS Ordinary Differential Equations and Vector Calculus	CH202BS Engineeri ng Chemistr y	ME203ES Computer Aided Engineering Graphics	ME204E S Enginee ring Mechan ics	ME205PC Engineering Materials	ME206ES Python Programming Laboratory	CH207BS Engineering Chemistry Laboratory	ME208PC Fuels & Lubricants Laboratory				
2 - 1	MA305BS Probabilit y, Statistics & Complex Variables	ME302 PC Mechan ics of Solids	ME303PC Metallurgy & Material Science	ME304PC Productio n Technolog y	ME305PC Thermody namics	ME306PC Production Technology Laboratory	ME307PC Material Science & Mechanics of Solids Laboratory	ME308PC Computer Aided Machine Drawing	*MC309 Constitutio n of India			
2 - 2	EE401ES Elements of Electrical and Electronics Engineering	ME402P C Kinemati cs of Machinery	ME403 PC Fluid Mechan ics & Hydrau lic Machin es	ME404P C IC Engines & Gas Turbines	ME40 5PC Instru mentation and Control Systems	EE407ES Elements of Electrical and Electronics Engineering Laboratory	ME406PC Fluid Mechanics & Hydraulic Machines Laboratory	ME408PC Instrumen tation and Control Systems Laboratory	ME409PC Real-time Research Project/ Field- Based Project	*MC410 Gender Sensitizati on Lab		
3 - 1	ME501PC Dynamics of Machinery	ME502P C Design of Machine Elements	ME50 3PC Metrolo gy & Machi ne Tools	SM504M S Business Economic s & Financial Analysis	ME505P C Steam Power & Jet Propulsio n	ME506 PC CAD/C AM	ME507PC Thermal Engineerin g Laboratory	ME508P C Metrology & Machine Tools Laboratory	ME509P C Kinematic s & Dynamics Laboratory	*MC510 Intellectual Property Rights		
3 - 2	ME60 1PC Machi ne Desig n	ME602P C Heat Transfer	ME60 3PC Finite Elemen t Metho ds	Professio nal Elective – I	Open Elective - I	ME604PC Heat Transfer Lab	ME605PC Computer Aided Engineerin g Laboratory	EN608HS Advance d English Communi cation Skills Laboratory	ME607P C Industry Oriented Mini Project/ Internship	*MC609 Environme ntal Science		

4 - 1	ME701PC Industrial Management	ME702PC Refrigeration & Air Conditioning	Professional Elective - II	Professional Elective - III	Professional Elective - IV	Open Elective - II	ME703PC Project Stage - I					
4 - 2	Professional Elective - V	Professional Elective - VI	Open Elective - III	ME801PC Project Stage - II								