

Bachelor of Technology in Mechanical Engineering (Smart Manufacturing)

School of Mechanical Engineering

Programme Credit Structure		Credits	Professional Core Courses				40	
University Core Courses		60	BAMEE101	Manufacturing Processes	3	0	2	4
Professional Core Courses		60	BAMEE201	Mechanics of Materials	2	1	2	4
Professional Core		40	BAMEE202	Metallurgy and Mechanical Behaviour of Materials	3	0	2	4
Concentration		20						
Open Elective Courses		40	BAMEE203	Thermodynamics and Thermal Systems	3	0	2	4
Total Graded Credit Requirement		160	BAMEE204	Fluid Mechanics and Heat Transfer	2	1	2	4
			BAMEE205	Engineering Innovation and Modelling	1	1	4	4
University Core Courses		60	BAMEE301	Computer Aided Design and Manufacturing	3	0	2	4
	L T P C		BAMEE302	Design of Mechanical Systems	2	1	2	4
BAPHY100	Physics*	4	BAMEE303	Control Systems	2	1	2	4
BACHY100	Chemistry*	4	BAMEE304	Computational Engineering	2	1	2	4
BAMAT101	Multivariable Calculus and Differential Equations	3 0 2 4	Concentration					
BAMAT200	Mathematics II*	4	Smart Manufacturing				20	
BAEEE101	Basic Engineering	3 0 2 4	BAMEE208	Smart Manufacturing	3	0	2	4
BACSE101	Problem Solving Using Python	0 0 4 2	BAMEE307	Manufacturing Systems Design	3	0	2	4
BACSE102	Problem Solving Using Java	0 0 4 2	BAMEE308	Industrial Internet of Things	2	1	2	4
BAENG101	Technical English Communication	3 0 2 4	BAMEE310	Introduction to Cyber Physical Systems	3	0	2	4
BASTS101	Qualitative and Quantitative Skills Practice I	3 0 0 1	BAMEE313	Industrial Robotics	3	0	2	4
BASTS102	Qualitative and Quantitative Skills Practice II	3 0 0 1	Open Elective Courses				40	
BAFLC100	Foreign Language	1 0 2 2	Engineering Sciences Humanities Social Sciences Liberal Arts Economics Finance Management					
BAHSM100	Humanities, Social Science and Management	3 0 0 3	Ancillary (20 credits) - Students can opt for "Ancillary" in other disciplines by earning 20 credits from the courses listed in the Ancillary options under Open Elective. Ancillary details will be mentioned only on the transcript.					
BAHUM101	India Studies	1 0 0 1	Additional Concentration (20 credits) - Students can opt for "Additional Concentrations" in their own discipline by earning 20 credits from the courses listed in the Concentration options under Open Elective. Concentration details will be mentioned only on the transcript.					
BACHY101	Environmental Sciences	2 0 0 2	Minor (additional 20 credits) - Students can opt for a "Minor Degree" in other disciplines 20 credits in addition to the minimum credit requirement of the Undergraduate Degree from the courses listed in the Minor options					
BAHUM100	Ethics and Values*	2	Second Major (additional 40 credits) - Students can opt for a "Second Major" in other disciplines by earning 40 credits in addition to the minimum credit requirement of the Undergraduate Degree from the courses listed in the Second Major options.					
BAMGT101	Entrepreneurship	3 0 0 3						
BAMEE191	Basic Multidisciplinary Project	0 0 4 2						
BAMEE291	Innovative Design Project	0 0 4 2						
BAMEE391	Research / Design Project	0 0 6 3						
BAMEE491	Technical Answers for Real World Problems	1 0 4 3						
BAMEE399	Internship I	0 0 2 1						
BAMEE499	Internship II / Capstone Project	0 0 12 6						
BAENG100	Effective English Communication (NCC)	0 0 4 2						
BAEXC100	Extracurricular Activities (NCCM)	0 0 4 2						
*-Basket Details								
BAPHY101	Applied Physics for Engineers	3 0 2 4						
BACHY109	Applied Chemistry for Enginners	3 0 2 4						
BAMAT206	Linear Algebra and Integral Transforms	3 1 0 4						
BAHUM102	Ethics in Engineering	2 0 0 2						