## Bachelor of Technology in Mechanical Engineering (Electric Vehicles) School of Mechanical Engineering

Programme Credit Structure	Cr	edits	BENG102P Technical Report Writing 0 0 2 1		
			BSTS101P Quantitative Skills Practice I 0 0 3 1.5		
Foundation Core Courses		54	BSTS102P Quantitative Skills Practice II 0 0 3 1.5		
Basic Sciences and Mathematics		24	BSTS201P Qualitative Skills Practice I 0 0 3 1.5		
Engineering Sciences		15	BSTS202P Qualitative Skills Practice II 0 0 3 1.5		
Humanities, Social Sciences and			BFLE200L Foreign Language 2 0 0 2		
Management (HSM)		15	BHSM200L HSM Elective 3 0 0 3		
<b>Discipline-linked Engineering Science Courses</b>	;	15			
Discipline Core Courses	Dissipling linked Engineering Science Courses 15				
Specialisation Elective Courses		21	Discipline-linked Engineering Science Courses 15		
Open Elective Courses		03	BMEE209L Materials Science and Engineer- 3 0 0 3		
Project and Internship		09	ing		
Total Graded Credit Requirement		151	BMEE209P Materials Science and Engineer- 0 0 2 1		
Non-Graded Credit Requirement		11	ing Lab		
			BMEE215L Engineering Optimization 3 1 0 4		
Dania Caianasa and Mathamatica		0.4	BMEE330L Control Systems 3 0 0 3		
Basic Sciences and Mathematics		24	BMEE330P Microcontrollers and Interfacing 0 0 2 1		
	T F		Lab		
<b>0 0</b> ,		3			
	0 2		BMEE407L Artificial Intelligence 2 1 0 3		
5 5 ,		3			
		2 1	Discipline Core Courses 49		
	0 0				
	0 2		BMEE202L Mechanics of Solids 3 0 0 3		
'	1 0	) 4	BMEE202P Mechanics of Solids Lab 0 0 2 1		
Transforms			BMEE203L Engineering Thermodynamics 2 1 0 3		
BMAT201L Complex Variables and Linear 3	1 0	) 4	BMEE204L Fluid Mechanics and Machines 3 0 0 3		
Algebra			BMEE204P Fluid Mechanics and Machines 0 0 2 1		
BMAT202L Probability and Statistics 3	0 0	3	Lab		
BMAT202P Probability and Statistics Lab 0	0 2	2 1	BMEE206P Machine Drawing Lab 0 0 4 2		
			BMEE207L Kinematics and Dynamics of 3 0 0 3		
Engineering Sciences		15	Machines		
Engineering Colonics		.0	BMEE207P Kinematics and Dynamics of 0 0 2 1		
BMEE102P Engineering Design Visualisa- 0	0 4	2	Machines Lab		
tion Lab			BMEE210L Mechatronics and Measurement 3 0 0 3		
	0 0	3	Systems		
Engineering			BMEE210P Mechatronics and Measurement 0 0 2 1		
5 5	0 2	2 1	Systems Lab		
Engineering Lab	-		BMEE301L Design of Machine Elements 3 1 0 4		
	1 0	3	BMEE302L Metal Casting and Welding 3 0 0 3		
	0 4		BMEE302P Metal Casting and Welding Lab 0 0 2 1		
	0 4		BMEE303L Thermal Engineering Systems 3 0 0 3		
Bool roof compater rogramming.ouva	•		BMEE303P Thermal Engineering Systems 0 0 2 1		
			Lab		
		4-	BMEE304L Metal Forming and Machining 3 0 0 3		
Humanities, Social Sciences and Management		15	BMEE304P Metal Forming and Machining 0 0 2 1		
BENG101N Effective English Communica- 0	0 4	2	Lab		
<del>-</del>	0 4	. 2	BMEE306L Computer Aided Design and Fi- 3 0 0 3		
tion (NGC)	0 0		nite Element Analysis		
<u> </u>	0 0		BMEE306P Computer Aided Design and Fi- 0 0 2 1		
tion  PENC101B Technical English Communics 0	0 0	) 1	nite Element Analysis Lab		
3	0 2	. 1	· <b>,</b>		
tion Lab					

BMEE401L	Computer Integrated Manufacturing	3	0	0	3	Open Elective Courses	03
BMEE401P	Computer Integrated Manufacturing Lab	0	0	2	1	Engineering Disciplines   Projects   Sciences   Ities   Social Sciences   Liberal Arts   Economics   It	
BMEE402L	Heat and Mass Transfer	3	0	0	3	Entrepreneurship   Management   Skills   Reading	'
BMEE402P	Heat and Mass Transfer Lab	0	0	2	1	2 th 2 to 2 h 1 to 20 to 2 h 2 to 2	
Specialisation Elective Courses					21	Project and Internship	9
Opeciansati	on Licetive dourses				۲.	BMEE399J Summer Industrial Internship	1
BMEE213E	Automotive Vehicles	2	0	2	3	BMEE497J Project-I	3
BMEE214E	Automotive Electricals and Elec-	2	0	2	3	BMEE498J Project-II / Internship	5
	tronics					BMEE499J One Semester Internship	14
BMEE325L	Internal Combustion Engines	3	0	0	3	BNILL 4000 One demester internalip	
	Vehicle Dynamics	2	0	2	3	Non-Graded Credit Requirement	11
BMEE328E	Hybrid and Electric Vehicles	2	0	2	3	4	
	Technology					BMEE101N Introduction to Engineering	1
BMEE329E	Noise, Vibration, and Harshness	2	0	2	3	BSSC101N Essence of Traditional Knowl-	2
BMEE404L	Design of Transmission Systems	2	1	0	3	edge	
BMEE409E	Computational Fluid Dynamics	2	0	2	3	BSSC102N Indian Constitution	2
BMEE413L	Design of Chassis Components	2	1	0	3	BEXC100N Extracurricular Activities	2
BMEE414L	Vehicle Body and Aerodynamics	3	0	0	3	BCHY102N Environmental Sciences	2
	Engineering					BHUM101N Ethics and Values	2
BMEE415L	Electrical Machines, Drives and Power Systems	3	0	0	3	•	
BMEE416L	Autonomous Vehicle Systems	3	0	0	3		
BMEE417L	Energy Storage and Management for Electric Vehicles	3	0	0	3		
BMEE418L	Materials for Electric and Hybrid Electric Vehicles	3	0	0	3		
BMEE419L	Electric Vehicle Testing and Certification	3	0	0	3		