

Semester	Category Code	Course Code	Course Name	Theory	Tutorial	Practical	Hrs	Credits
Semester III	BSC	20MA202T	Mathematics - III	3	1	0	4	4
	PCC	20AE201T	Thermodynamics & Fluid Flow	3	0	0	3	3
	PCC	20AE201P	Thermodynamics & Fluid Flow - Lab.	0	0	2	2	1
	PCC	20ME202T	Strength of Material	3	0	0	3	3
	PCC	20ME202P	Strength of Material - Lab.	0	0	2	2	1
	PCC	20ME203T	Mechanical Measurements & Metrology	3	0	0	3	3
	PCC	20ME203P	Mechanical Measurements & Metrology - Lab.	0	0	2	2	1
	PCC	20AE202P	Geometric Modeling - Lab.	0	0	4	4	2
	OE	Open Elective - I						
	20AE203T	Automotive Chassis & Components	3	0	0	3	3	
HSC	20HS201P	Communication Skills - II	0	0	2	2	1	
				<b>15</b>	<b>1</b>	<b>12</b>	<b>28</b>	<b>22</b>
Semester IV	PCC	20AE204T	Theory of Machines	3	0	0	3	3
	PCC	20AE204P	Theory of Machines - Lab.	0	0	2	2	1
	PCC	20AE205T	Materials Technology	3	0	0	3	3
	PCC	20AE205P	Materials Technology - Lab.	0	0	2	2	1
	PCC	20AE206T	Automotive Chassis & Components	3	0	0	3	3
	PCC	20AE206P	Automotive Chassis & Components - Lab.	0	0	2	2	1
		Professional Core Elective - I						
	PCE	20AE207T	Automotive Fuels & Lubricants	3	0	0	3	3
		20AE208T	IC Engine Emissions & Control					
		Open Elective - II						
	OE	20AE209T	Connected Cars & Recent Advancements	3	0	0	3	3
	IND	20IF201T	Industry 4.0	2	0	0	2	2
IND	20IF201P	Industry 4.0 - Lab.	0	0	2	2	1	
Project	20TP210	Industrial Orientation	0	0	0	0	1	
				<b>17</b>	<b>0</b>	<b>8</b>	<b>25</b>	<b>22</b>
Semester V	PCC	20AE301T	Manufacturing Technology	3	0	0	3	3
	PCC	20AE301P	Manufacturing Technology - Lab.	0	0	2	2	1
	PCC	20AE302T	Design of Machines Elements	3	0	0	3	3
	PCC	20AE302P	Design of Machines Elements - Lab.	0	0	2	2	1
	PCC	20AE303T	Automotive Power Train Systems	3	0	0	3	3
	PCC	20AE303P	Automotive Power Train Systems - Lab.	0	0	2	2	1
		Professional Core Elective - II						
	PCE	20AE304T	Automotive HVAC	3	0	0	3	3
		20AE305T	Special Vehicles					
		Open Elective - III						
OE	20AE306T	Vehicle Manufacturing	3	0	0	3	3	
HSC	20HS301P	Communication Skills - III	0	0	2	2	1	
				<b>15</b>	<b>0</b>	<b>8</b>	<b>23</b>	<b>19</b>
Semester VI	PCC	20AE307T	Automotive Transmission	3	0	0	3	3
	PCC	20AE307P	Automotive Transmission - Lab.	0	0	2	2	1
	PCC	20AE308T	Vehicle Dynamics	3	0	0	3	3
	PCC	20AE308P	Vehicle Dynamics - Lab.	0	0	2	2	1
	PCC	20AE309T	Finite Element Analysis	3	0	0	3	3
	PCC	20AE309P	Finite Element Analysis - Lab.	0	0	2	2	1
	PCC	20AE310P	Automotive Design - Lab.	0	0	4	4	2
		Professional Core Elective - III						
	PCE	20AE311T	Electric & Hybrid Vehicles	3	0	0	3	3
		20AE312T	Ergonomics & Styling					
		20AE313T	Connected Cars & Recent Advancements					
		20AE314T	Two & Three Wheeler Technology					
		20AE315T	Wheel & Tyre Technology					
		Open Elective - IV						
OE	20AE316T	Special Vehicles	3	0	0	3	3	
Project	20TP310	Industrial Training / IEP	0	0	0	0	2	
				<b>15</b>	<b>0</b>	<b>10</b>	<b>25</b>	<b>22</b>

Semester	Category Code	Course Code	Course Name	Theory	Tutorials	Practical	Hrs	Credits	
Semester VII	PCC	20AE401T	Automotive Electricals & Electronics	3	0	0	3	3	
	PCC	20AE401P	Automotive Electricals & Electronics - Lab.	0	0	2	2	1	
	PCC	20AE402T	Vehicle Safety	3	0	0	3	3	
	PCC	20AE402P	Vehicle Safety - Lab.	0	0	2	2	1	
	PCE	Professional Core Elective - IV							
		20AE403T	Computer Aided Design & Manufacturing		3	0	0	3	3
		20AE403P	Computer Aided Design & Manufacturing - Lab.		0	0	2	2	1
		20AE404T	Advanced Manufacturing Technology		3	0	0	3	3
		20AE404P	Advanced Manufacturing Technology - Lab.		0	0	2	2	1
		20AE405T	Heat and Mass Transfer		3	0	0	3	3
		20AE405P	Heat and Mass Transfer - Lab.		0	0	2	2	1
	Professional Core Elective - V								
		20AE406T	Machine Design		3	0	0	3	3
		20AE406P	Machine Design - Lab.		0	0	2	2	1
		20AE407T	Vehicle Testing & Automotive Standards		3	0	0	3	3
		20AE407P	Vehicle Testing & Automotive Standards - Lab		0	0	2	2	1
	PCE	Professional Core Elective - VI							
20AE408T		Operations Research		3	0	0	3	3	
20AE409T		Vehicle Aerodynamics							
20AE410T		Noise, Vibration & Harshness							
20AE411T		Automotive Control Engineering							
20AE412T		Automotive Manufacturing & Marketing							
Project	20TP410	Seminar & Technical Writing							0
				<b>24</b>	<b>0</b>	<b>18</b>	<b>42</b>	<b>33</b>	
Semester VIII	Project	20TP420	Major Project / Comprehensive Project	0	0	0	0	13	
	<b>Sr No</b>	<b>Code</b>	<b>Component</b>						
	1	<b>HSC</b>	Humanities & Social Science Including Management Courses						
	2	<b>BSC</b>	Basic Science Courses						
	3	<b>ESC</b>	Engineering Science Courses including Workshop, drawing, Basic of Electrical, Basic of Mechanical, Computer etc...						
	4	<b>IND</b>	Industry 4.0 Course						
	5	<b>PCC</b>	Professional Core Courses						
	6	<b>PCE</b>	Professional Elective Courses related to chosen specialization						
	7	<b>OE</b>	Open Elective Subjects from Other technical / emerging subjects						
	8	<b>Project</b>	Project work, Seminar or Internship in Industry or elsewhere						