SCHEME OF STUDIES
Mechanical Engineering (Specialization in Automotive)

Batch 2018
FIRST YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	Automotive Engineering			
FALL 2018	PH-122 Applied Physics	3	1	4
	AU-113 Introduction to Automotive Systems	2	0	2
	HS-104 Functional English	3	0	3
	MT-114 Calculus	3	0	3
	HS-105 Pakistan Studies OR	2	0	2
	HS-127 Pakistan Studies (for Foreigner)			
	ME-104 Workshop Practice	0	2	2
	ME-106 Statistics	2	1	3
SPRING 2019	ME-112 Thermodynamics	3	0	3
	AU-112 Engineering Drawing and Computer Graphics	2	1	3
	EE-118 Basic Electricity and Electronics	3	1	4
	CY-109 Applied Chemistry	3	1	4
	HS-220 Chinese Language-I	NC		

Batch 2019
FIRST YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	Automotive Engineering			
FALL 2019	PH-122 Applied Physics	3	1	4
	AU-113 Introduction to Automotive Systems	2	0	2
	HS-104 Functional English	3	0	3
	MT-114 Calculus	3	0	3
	HS-105 Pakistan Studies OR	2	0	2
	HS-127 Pakistan Studies (for Foreigner)			
	ME-104 Workshop Practice	0	2	2
	ME-106 Statistics	2	1	3
SPRING 2020	ME-112 Thermodynamics	3	0	3
	AU-112 Engineering Drawing and Computer Graphics	2	1	3
	EE-118 Basic Electricity and Electronics	3	1	4
	CY-109 Applied Chemistry	3	1	4
	HS-220 Chinese Language-I	NC		

Batch 2020
FIRST YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	Automotive Engineering			
FALL 2020	PH-122 Applied Physics	3	1	4
	AU-113 Introduction to Automotive Systems	2	0	2
	HS-104 Functional English	3	0	3
	MT-114 Calculus	3	0	3
	HS-105 Pakistan Studies OR	2	0	2
	HS-127 Pakistan Studies (for Foreigner)			
	ME-104 Workshop Practice	0	2	2
	ME-106 Statistics	2	1	3
SPRING 2021	ME-112 Thermodynamics	3	0	3
	AU-112 Engineering Drawing and Computer Graphics	2	1	3
	EE-118 Basic Electricity and Electronics	3	1	4
	CY-109 Applied Chemistry	3	1	4
	HS-220 Chinese Language-I	NC		
	HS-200 Community Service	NC		

Batch 2021
FIRST YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	Automotive Engineering			
FALL 2021	PH-122 Applied Physics	3	1	4
	AU-113 Introduction to Automotive Systems	2	0	2
	HS-104 Functional English	3	0	3
	MT-114 Calculus	3	0	3
	HS-105 Pakistan Studies OR	2	0	2
	HS-127 Pakistan Studies (for Foreigner)			
	ME-104 Workshop Practice	0	2	2
	ME-106 Statistics	2	1	3
SPRING 2022	ME-112 Thermodynamics	3	0	3
	AU-112 Engineering Drawing and Computer Graphics	2	1	3
	EE-118 Basic Electricity and Electronics	3	1	4
	CY-109 Applied Chemistry	3	1	4
	Changed with vide Resolution No.AC-168			

Batch 2022
FIRST YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	Automotive Engineering			
FALL 2022	PH-122 Applied Physics	3	1	4
	AU-113 Introduction to Automotive Systems	2	0	2
	HS-104 Functional English	3	0	3
	MT-114 Calculus	3	0	3
	HS-105 Pakistan Studies OR	2	0	2
	HS-127 Pakistan Studies (for Foreigner)			
	ME-104 Workshop Practice	0	2	2
	ME-106 Statistics	2	1	3
SPRING 2023	ME-112 Thermodynamics	3	0	3
	AU-112 Engineering Drawing and Computer Graphics	2	1	3
	EE-118 Basic Electricity and Electronics	3	1	4
	CY-109 Applied Chemistry	3	1	4
	Changed with vide Resolution No.AC-168			

Batch 2023
FIRST YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	*** Mechanical Engineering (Specialization in Automotive)**			
FALL 2023	AU-113 Introduction to Automotive Systems	2	0	2
	EA-104 Functional English	3	0	3
	MT-114 Calculus	3	0	3
	ES-105 Pakistan Studies OR	2	0	2
	ES-127 Pakistan Studies (for Foreigner)			
	ME-104 Workshop Practice	0	2	2
	ME-106 Statistics	2	1	3
SPRING 2024	ME-112 Thermodynamics	3	0	3
	AU-112 Engineering Drawing and Computer Graphics	2	1	3
	EE-118 Basic Electricity and Electronics	3	1	4
	CY-109 Applied Chemistry	3	1	4
	Changed with vide Resolution No.AC-169			

Batch 2024
FIRST YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	*** Mechanical Engineering (Specialization in Automotive)**			
FALL 2024	CY-111 Applied Chemistry	2	0	2
	MT-114 Calculus	3	0	3
	EE-124 Basic Electricity and Electronics	2	1	3
	ME-111 Engineering Drawing	2	1	3
	ME-104 Workshop Practice	0	2	2
	ME-113 Computer Aided Drawing	0	1	1
SPRING 2025	PH-112 Applied Physics	2	1	3
	EA-111 Functional English	2	0	2
	ME-112 Thermodynamics	3	0	3
	ME-115 Statics	3	0	3
	ME-214 Computer Programming & Applications	2	1	3
	ES-105 Pakistan Studies OR	2	0	2
	ES-127 Pakistan Studies (for Foreigners)			
	Changed with new nomenclature vide Resolution No. AC-164.5(iv)			

Batch 2025
FIRST YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	*** Mechanical Engineering (Specialization in Automotive)**			
FALL 2025	CY-110 Applied Chemistry for Engineers	2	1	3
	MT-116 Calculus and Analytical Geometry	3	0	3
	ES-105 Pakistan Studies OR	2	0	2
	ES-127 Pakistan Studies (for Foreigners)	2	0	2
	EA-128 Functional English	3	0	3
	ME-118 Engineering Drawing	1	1	2
	ME-119 Thermodynamics-I	3	0	3
	CY-100 Essentials of Chemistry	NC		
SPRING 2026	ES-206 Islamic Studies OR	2	0	2
	ES-209 Ethical Behaviour	2	0	2
	MT-221 Linear Algebra & Ordinary Differential Equations	3	0	3
	ES-108 Ideology and Constitution of Pakistan	2	0	2
	MF-101 IT Fundamentals and Applications	2	1	3
	EE-210 Basic Electrical and Electronics Engineering	2	1	3
	ME-120 Statics	3	0	3
	Changed with vide Resolution No. AC-168.5(iv)			

Batch 2018
SECOND YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	Automotive Engineering			
FALL 2019	AU-201 Automotive Power Plants	3	1	4
	AU-212 Computer Programming and Applications	2	1	3
	AU-225 Fundamentals of Analogue and Digital Electronics	2	1	3
	MT-223 Ordinary Differential Equations & Fourier Series	3	0	3
	ME-209 Materials & Metallurgy	3	1	4
	AU-203 Statistics & Quality Control	3	0	3
	HS-221 Chinese Language-II	NC		
SPRING 2020	ME-213 Dynamics	2	1	3
	ME-202 Solid Mechanics-I	3	1	4
	AU-231 Manufacturing Engineering-I	3	0	3
	AU-222 Automobile Instrumentation	2	1	3
	ME-204 Fluid Mechanics-I	3	1	4
	HS-205 Islamic Studies OR	2	0	2
	HS-209 Ethical Behaviour (for Non-Muslims)			

Batch 2019
SECOND YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	Automotive Engineering			
FALL 2020	AU-201 Automotive Power Plants	3	1	4
	AU-212 Computer Programming and Applications	2	1	3
	AU-225 Fundamentals of Analogue and Digital Electronics	2	1	3
	MT-223 Ordinary Differential Equations & Fourier Series	3	0	3
	ME-209 Materials & Metallurgy	3	1	4
	AU-203 Statistics & Quality Control	3	0	3
	HS-221 Chinese Language-II	NC		
SPRING 2021	ME-213 Dynamics	2	1	3
	ME-202 Solid Mechanics-I	3	1	4
	AU-231 Manufacturing Engineering-I	3	0	3
	AU-222 Automobile Instrumentation	2	1	3
	ME-204 Fluid Mechanics-I	3	1	4
	HS-205 Islamic Studies OR	2	0	2
	HS-209 Ethical Behaviour (for Non-Muslims)			

Batch 2020
SECOND YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	Automotive Engineering			
FALL 2021	AU-201 Automotive Power Plants	3	1	4
	AU-212 Computer Programming and Applications	2	1	3
	AU-225 Fundamentals of Analogue and Digital Electronics	2	1	3
	MT-223 Ordinary Differential Equations & Fourier Series	3	0	3
	ME-209 Materials & Metallurgy	3	1	4
	AU-203 Statistics & Quality Control	3	0	3
	HS-221 Chinese Language-II	NC		
SPRING 2022	ME-213 Dynamics	2	1	3
	ME-202 Solid Mechanics-I	3	1	4
	AU-231 Manufacturing Engineering-I	3	0	3
	AU-222 Automobile Instrumentation	2	1	3
	ME-204 Fluid Mechanics-I	3	1	4
	HS-205 Islamic Studies OR	2	0	2
	HS-209 Ethical Behaviour (for Non-Muslims)			

Batch 2021
SECOND YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	Automotive Engineering			
FALL 2022	***AU-241 Automotive Propulsion**	**3**	**1**	**4**
	AU-212 Computer Programming and Applications	2	1	3
	AU-225 Fundamentals of Analogue and Digital Electronics	2	1	3
	MT-223 Ordinary Differential Equations & Fourier Series	3	0	3
	***ME-222 Dynamics**	**3**	**0**	**3**
	***HS-205 Islamic Studies OR**	**2**	**0**	**2**
	***HS-209 Ethical Behaviour (for Non-Muslims)**			
SPRING 2023	***IM-209 Mechanics of Materials**	**3**	**1**	**4**
	***ME-311 Manufacturing Processes**	**3**	**1**	**4**
	***EE-376 Feedback Control Systems**	**3**	**0**	**3**
	***MT-330 Applied Probability & Statistics**	**2**	**1**	**3**
	***ME-209 Materials & Metallurgy**	**3**	**1**	**4**
	HS-200 Community Service	NC		
	Changed with vide Resolution No.AC-168			

* Vide Resolution No. AC-157.3(iv)

Batch 2022
SECOND YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	Automotive Engineering			
FALL 2023	AU-241 Automotive Propulsion	3	1	4
	AU-212 Computer Programming and Applications	2	1	3
	AU-225 Fundamentals of Analogue and Digital Electronics	2	1	3
	MT-223 Ordinary Differential Equations & Fourier Series	3	0	3
	ME-222 Dynamics	3	0	3
	ES-205 Islamic Studies OR	2	0	2
	ES-209 Ethical Behaviour (for Non-Muslims)			
SPRING 2024	IM-209 Mechanics of Materials	3	1	4
	ME-311 Manufacturing Processes	3	1	4
	EE-376 Feedback Control Systems	3	0	3
	MT-330 Applied Probability & Statistics	2	1	3
	ME-209 Materials & Metallurgy	3	1	4
	EA-200 Community Service	NC		
	Changed with vide Resolution No.AC-168			

Batch 2023
SECOND YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	*** Mechanical Engineering (Specialization in Automotive)**			
FALL 2024	MT-223 Ordinary Differential Equations & Fourier Series	3	0	3
	ME-221 Fluid Mechanics - I	3	0	3
	ME-222 Dynamics	3	0	3
	AU-251 Automotive Propulsion	3	1	4
	ME-220 Manufacturing Processes - I	3	1	4
	ME-113 Computer Aided Drawing	0	1	1
	MT-330 Applied Probability & Statistics	2	1	3
	ME-218 Solid Mechanics - I	3	0	3
	ME-209 Materials & Metallurgy	3	1	4
SPRING 2025	ES-205 Islamic Studies OR	2	0	2
	ES-209 Ethical Behaviour			
	ME-219 Mechanics of Machine	3	0	3
	EA-208 Business Communication & Ethics	3	0	3
	EA-200 Community Service	NC		
	Changed with vide Resolution No.AC-169			

Batch 2024
SECOND YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	*** Mechanical Engineering (Specialization in Automotive)**			
FALL 2025	MT-223 Ordinary Differential Equations & Fourier Series	3	0	3
	ME-221 Fluid Mechanics - I	3	0	3
	ME-222 Dynamics	3	0	3
	AU-251 Automotive Propulsion	3	1	4
	ME-220 Manufacturing Processes - I	3	1	4
	ME-113 Computer Aided Drawing	0	1	1
	MT-330 Applied Probability & Statistics	2	1	3
	ME-218 Solid Mechanics - I	3	0	3
	ME-209 Materials & Metallurgy	3	1	4
SPRING 2026	***ES-206 Islamic Studies OR**	**2**	**0**	**2**
	ES-209 Ethical Behaviour			
	ME-219 Mechanics of Machine	3	0	3
	EA-208 Business Communication & Ethics	3	0	3
	EA-200 Community Service	NC		
	Changed with new nomenclature vide Resolution No. AC-164.5(iv)			

* Changed Vide Resolution No.AC-164.5(vi)

Batch 2025
SECOND YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	*** Mechanical Engineering (Specialization in Automotive)**			
FALL 2026	ME-226 Dynamics	2	0	2
	ME-223 Engineering Mechanics Lab	0	1	1
	MF-201 Civics and Community Engagement	2	0	2
	ME-228 Workshop Practice	0	1	1
	ME-113 Computer Aided Drawing	0	1	1
	ME-229 Materials Engineering	2	0	2
	MT-232 Advanced Calculus & Transformations	2	0	2
	ME-227 Mechanics of Materials-I	3	0	3
	MT-231 Thermodynamics-II	2	0	2
SPRING 2027	MT-233 Probability & Statistics	2	0	2
	MT-334 Numerical Methods for Engineers	3	0	3
	MT-336 Statistics and Numerical Methods Lab	0	1	1
	ME-219 Mechanics of Machines	3	0	3
	ME-235 Fluid Mechanics-I	3	0	3
	ME-234 Applied Programming for Mechanical Engineers	1	1	2
	ME-233 Manufacturing Processes	3	0	3
	ME-232 Materials and Manufacturing Lab	0	1	1
	MF-205 Community Service	NC		
	Changed with vide Resolution No. AC-168.5(iv)			

Batch 2018
THIRD YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	Automotive Engineering			
FALL 2020	AU-313 Combustion, Emission and Pollution	3	0	3
	AU-311 Manufacturing Engineering-II	3	1	4
	ME-313 Solid Mechanics-II	3	0	3
	MT-332 Advanced Calculus & Linear Algebra	3	0	3
	HS-304 Business Communication & Ethics	3	0	3
	AU-314 Vehicle Dynamics	2	0	2
	AU-315 Design of Machine Elements	3	0	3
	MT-442 Numerical Methods	3	0	3
SPRING 2021	ME-314 Fluid Mechanics-II	3	0	3
	ME-306 Mechanical Vibrations	3	1	4
	MF-303 Applied Economics for Engineers	3	0	3

Batch 2019
THIRD YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	Automotive Engineering			
FALL 2021	AU-313 Combustion, Emission and Pollution	3	0	3
	AU-311 Manufacturing Engineering-II	3	1	4
	ME-313 Solid Mechanics-II	3	0	3
	MT-332 Advanced Calculus & Linear Algebra	3	0	3
	HS-304 Business Communication & Ethics	3	0	3
	AU-314 Vehicle Dynamics	2	0	2
	AU-315 Design of Machine Elements	3	0	3
	MT-442 Numerical Methods	3	0	3
SPRING 2022	ME-314 Fluid Mechanics-II	3	0	3
	ME-306 Mechanical Vibrations	3	1	4
	MF-303 Applied Economics for Engineers	3	0	3

Batch 2020
THIRD YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	Automotive Engineering			
FALL 2022	AU-313 Combustion, Emission and Pollution	3	0	3
	AU-311 Manufacturing Engineering-II	3	1	4
	ME-313 Solid Mechanics-II	3	0	3
	MT-332 Advanced Calculus & Linear Algebra	3	0	3
	HS-304 Business Communication & Ethics	3	0	3
	AU-314 Vehicle Dynamics	2	0	2
	AU-315 Design of Machine Elements	3	0	3
	MT-442 Numerical Methods	3	0	3
SPRING 2023	ME-314 Fluid Mechanics-II	3	0	3
	ME-306 Mechanical Vibrations	3	1	4
	MF-303 Applied Economics for Engineers	3	0	3

Batch 2021
THIRD YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	Automotive Engineering			
FALL 2023	AU-313 Combustion, Emission and Pollution	3	0	3
	MT-332 Advanced Calculus & Linear Algebra	3	0	3
	****EA-304 Business Communication & Ethics**	**3**	**0**	**3**
	***AU-317 Fluid Mechanics**	**3**	**0**	**3**
	***AU-331 Automotive Embedded System**	**2**	**0**	**2**
	***AU-315 Design of Machine Elements**	**3**	**0**	**3**
	***AU-312 Modeling & Simulation Lab**	**0**	**1**	**1**
SPRING 2024	***AU-322 Vehicle Noise & Vibration**	**3**	**0**	**3**
	MF-303 Applied Economics for Engineers	3	0	3
	***AU-316 Vehicle Ride & Handling Lab**	**0**	**1**	**1**
	***AU-332 Automobile Instrumentation**	**2**	**1**	**3**
	***ME-315 Heat & Mass Transfer**	**3**	**1**	**4**
	***AU-333 Chasis System Design**	**2**	**0**	**2**
	EA-### Social Elective	2	0	2
	****EA/ES Foreign Language-I**			
	Changed with vide Resolution No.AC-168			

* Vide Resolution No. AC-157.3(iv)

Batch 2022
THIRD YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	Automotive Engineering			
FALL 2024	ME-317 Manufacturing Processes - II	3	1	4
	ME-213 Computer Aided Drawing	0	1	1
	ME-302 Solid Mechanics - II	3	1	4
	ME-221 Fluid Mechanics - I	3	0	3
	ME-219 Mechanics of Machine	3	0	3
	AU-332 Automobile Instrumentation	2	1	3
	MG-481 Entrepreneurship	3	0	3
SPRING 2025	AU-323 Vehicle Noise & Vibration	3	0	3
	MT-332 Advanced Calculus & Linear Algebra	3	0	3
	MF-303 Applied Economics for Engineers	3	0	3
	ME-323 Machine Design	3	0	3
	ME-318 Heat & Mass Transfer	3	0	3
	AU-333 Chasis System Design	2	0	2
	ME-437 Machine Design and Vibration Lab	0	1	1
	EA/ES Foreign Language-I	NC		
	Changed with vide Resolution No.AC-168			

Batch 2023
THIRD YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	*** Mechanical Engineering (Specialization in Automotive)**			
FALL 2025	AU-371 Manufacturing Processes-II	2	1	3
	ME-214 Computer Programming & Applications	2	1	3
	AU-372 Solid Mechanics-II	2	1	3
	ME-316 Fluid Mechanics-II	3	1	4
	EA-225 Fundamentals of Analogue & Digital Electronics	2	1	3
	EA-### Social Science (Elective)	2	0	2
	EE-402 Control Engineering	2	0	2
	MT-332 Advanced Calculus & Linear Algebra	3	0	3
SPRING 2026	ME-323 Machine Design	3	0	3
	ME-318 Heat & Mass Transfer	3	0	3
	AU-323 Vehicle Noise & Vibration	3	0	3
	ME-437 Machine Design & Vibration Lab	0	1	1
	AU-339 Chassis System Design	2	1	3
	EA/ES Foreign Language-I	NC		
	Changed with vide Resolution No.AC-169			

Batch 2024
THIRD YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	*** Mechanical Engineering (Specialization in Automotive)**			
FALL 2026	ME-317 Manufacturing Processes - II	3	1	4
	MT-332 Advanced Calculus & Linear Algebra	3	0	3
	ME-302 Solid Mechanics - II	3	1	4
	ME-316 Fluid Mechanics-II	3	1	4
	### Social Science (Elective)	2	0	2
	AU-350 Analogue & Digital Electronics	2	0	2
	EE-376 Feedback Control Systems	3	0	3
SPRING 2027	MF-303 Applied Economics for Engineers	3	0	3
	ME-323 Machine Design	3	0	3
	ME-318 Heat & Mass Transfer	3	0	3
	AU-323 Vehicle Noise & Vibration	3	0	3
	ME-437 Machine Design and Vibration Lab	0	1	1
	AU-333 Chasis System Design	2	0	2
	EA/ES Foreign Language-I	NC		
	Changed with new nomenclature vide Resolution No. AC-164.5(iv)			

Batch 2025
THIRD YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	*** Mechanical Engineering (Specialization in Automotive)**			
FALL 2028	AU-422 Automotive Transmission & Drives	2	0	2
	ME-334 Refrigeration & Air Conditioning	3	0	3
	ME-320 RAC and Heat Transfer Lab	0	1	1
	XX- XXX Technical Elective-I	2	0	2
	ME-441 Finite Element Methods	2	1	3
	IM-323 Project Management	2	0	2
	EA/ES Foreign Language-II	NC		
SPRING 2029	AU-445 Electric & Hybrid Vehicles	2	0	2
	MG-485 Entrepreneurship	2	0	2
	ME-443 Health, Safety & Environment	1	0	1
	AU-498 Automotive Engineering Design Project	0	3	3
	ME-438 AI and Internet of Things	2	1	3
	XX- XXX Technical Elective-II			
	XX- XXX Arts & Humanities Elective			
	XX- XXX Social Science Elective			
	Changed with vide Resolution No. AC-168.5(iv)			

Batch 2018
FINAL YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	Automotive Engineering			
FALL 2021	AU-415 Vehicle Design	2	0	2
	AU-416 Mechatronics	3	1	4
	AU-### Elective Course	3	0	3
	ME-315 Heat & Mass Transfer	3	1	4
	AU-442 FEM and FVM: Applications in Automotive Engin	2	1	3
	AU-499 Automotive Engineering Project	0	3	3
SPRING 2022	AU-431 Vehicle Thermal Management	3	0	3
	AU-422 Automotive Transmission & Drives	2	0	2
	AU-441 Product Development and Operations Managem	2	0	2
	AU-499 Automotive Engineering Project	0	3	3
	MG-481 Entrepreneurship	3	0	3

* Duration one academic year: Requires literature survey and preliminary work during this Semester

Batch 2019
FINAL YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	Automotive Engineering			
FALL 2022	AU-415 Vehicle Design	2	0	2
	AU-416 Mechatronics	3	1	4
	AU-### Elective Course	3	0	3
	ME-315 Heat & Mass Transfer	3	1	4
	AU-442 FEM and FVM: Applications in Automotive Engin	2	1	3
	AU-499 Automotive Engineering Project	0	3	3
SPRING 2023	AU-422 Automotive Transmission & Drives	2	0	2
	AU-441 Product Development and Operations Managem	2	0	2
	AU-499 Automotive Engineering Project	0	3	3
	MG-481 Entrepreneurship	3	0	3

* Duration one academic year: Requires literature survey and preliminary work during this Semester

Batch 2020
FINAL YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	Automotive Engineering			
FALL 2023	AU-415 Vehicle Design	2	0	2
	AU-416 Mechatronics	3	1	4
	AU-### Elective Course	3	0	3
	ME-315 Heat & Mass Transfer	3	1	4
	AU-442 FEM and FVM: Applications in Automotive Engin	2	1	3
	AU-499 Automotive Engineering Project	0	3	3
SPRING 2024	AU-422 Automotive Transmission & Drives	2	0	2
	AU-441 Product Development and Operations Managem	2	0	2
	AU-499 Automotive Engineering Project	0	3	3
	MG-481 Entrepreneurship	3	0	3

* Duration one academic year: Requires literature survey and preliminary work during this Semester

Batch 2021
FINAL YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	Automotive Engineering			
FALL 2024	****AU-422 Automotive Transmission & Drives**	**2**	**0**	**2**
	****ME-485 Refrigeration & Air Conditioning**	**3**	**1**	**4**
	****ME-317 Manufacturing Processes - II**	**3**	**1**	**4**
	***AU-###* Technical Elective-I**	**3/2**	**1/0**	**3**
	AU-499 Automotive Engineering Project	0	3	3
	EA/ES Foreign Language-II			
SPRING 2025	***AU-438 Electric & Hybrid Electric Vehicles**	**2**	**0**	**2**
	****ME-435 Operations Management**	**3**	**0**	**3**
	****MT-441 Advanced Mathematical Techniques**	**3**	**0**	**3**
	AU-499 Automotive Engineering Project	0	3	3
	***XX-### Technical Elective-II**	**3/2**	**1/0**	**3**
	****ME-219 Mechanics of Machine**	**3**	**0**	**3**
	Changed with vide Resolution No.SYN-213.6(a)(i)			

Batch 2022
FINAL YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	Automotive Engineering			
FALL 2025	AU-424 Design for Manufacturing	2	0	2
	AU-###* Technical Elective – I	3	0	3
	AU-425 Thermal Management for Automotive	2	0	2
	XX-### Management Elective	2	0	2
	ME-435 Operations Management	3	0	3
	ME-316 Fluid Mechanics – II	3	1	4
	AU-499 Automotive Engineering Project	0	3	3
	AU-331 Automotive Embedded Systems	2	0	2
	AU-312 Modeling & Simulation Lab	0	1	1
	EA/ES Foreign Language-II	NC		
SPRING 2026	AU-438 Electric & Hybrid Electric Vehicles	2	0	2
	AU-430 Quality Management & Reliability	2	0	2
	AU-428 Automotive Health Safety & Environment	2	0	2
	AU-499 Automotive Engineering Project	0	3	3
	XX-### Technical Elective – II	3	0	3
	EA-304 Business Communication & Ethics	3	0	3
	AU-316 Vehicle Ride & Handling Lab	0	1	1
	XX-### Social Science (Elective)	2	0	2
	AU-313 Combustion, Emission and Pollution	3	0	3
	Changed with vide Resolution No.SYN-213.6(a)(i)			

Batch 2023
FINAL YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
	*** Mechanical Engineering (Specialization in Automotive)**			
FALL 2026	AU-422 Automotive Transmission & Drives	2	0	2
	ME-319 Refrigeration & Air Conditioning	3	0	3
	ME-438 AI and Internet of Things	2	1	3
	ME-320 RAC and Heat Transfer Lab	0	1	1
	AU-499 Automotive Engineering Project	0	3	3
	XX-### Technical Elective-I	2	0	2
	MF-304 Engineering Economics	2	0	2