

**PROGRAMME-DIPLOMA IN AUTOMOBILE ENGINEERING
PROGRAMME STRUCTURE
SCHEME AT A GLANCE**

Level	Name of Level	Number of Courses offered	Number of Courses to be Completed	TH	TU	PR	Total Hours	Total Credits	Marks
Level-1	Foundation Courses	09	09 Compulsory	16	01	18	35	26	950
Level-2	Basic Technology Courses	08	08 Compulsory	22	--	18	40	31	1025
Level-3	Allied Courses	08	05 (04 Compulsory & 01 Electives)	06	---	08	14	09	275
Level-4	Applied Technology Courses	06	06 Compulsory	12	--	12	59	32	900
Level-5	Diversified Courses	09	06 (05 Compulsory & 01 Elective)	15	---	12	27	21	850
TOTAL		39	32 Compulsory +02 Electives --- 34	71	01	68	177	120	4000
Audit courses		04	04	06	--	02	08	--	--
Grand Total		43	38	77	01	70	185	120	4000

Abbreviations:

TH: Theory, TU: Tutorial, PR: Practical.

**PROGRAMME-DIPLOMA IN AUTOMOBILE ENGINEERING
PROGRAMME STRUCTURE
LEVEL-1
FOUNDATION COURSES**

Sr. No.	Course Code	Course Title	Course Abbr.	TEACHING SCHEME					EXAMINATION SCHEME						
				TH	TU	PR	Hrs	Total Credits	Theory Paper		Test	PR	OR	TW	Total
									Hrs	Mark					
01	21101	Communication Skills	CMS	02	--	02	04	03	03	80	20	--	--	50	150
02	21102	Engineering Mathematics	EMT	03	--	--	03	03	03	80	20	--	--	--	100
03	21103	Applied Mathematics	AMT	03	--	--	03	03	03	80	20	--	--	--	100
04	21104	Applied Physics	PHY	03	--	02	05	04	02	80#	20#	--	--	50	150
05	21105	Applied Chemistry	CHY	03	--	02	05	04	02	80#	20#	--	--	50	150
06	21107	Engineering Graphics	EGR	--	--	04	04	02	--	--	--	--	--	50	50
07	21108	Engineering Mechanics	EMH	03	--	02	05	04	03	80	20	--	--	50	150
08	21109	Workshop Practice	WSP	--	--	04	04	02	--	--	--	--	--	50	50
09	21110	Introduction to IT System	ITS	--	--	02	02	01	--	--	--	--	--	50	50
TOTAL			--	16	01	18	35	26	--	480	120	--	--	350	950

Level: 1

Total courses : 09
Total Credits : 26
Total marks : 950

Abbreviations:

Abbr: Course Abbreviation, TH: Theory, TU: Tutorial, PR: Practical, OR: Oral, TW: Term Work, #: Online Examination

Course code Indication:

First two digits : Indicates last two digits of Year of Implementation of Curriculum
Third digit : Indicates Level.
Fourth and Fifth digit : Indicates Course Number.

Assessment of PR / OR / TW:

- 1) All orals and practical are to be assessed by external & internal examiners.
- 2) TW are to be assessed by internal examiners.

**PROGRAMME-DIPLOMA IN AUTOMOBILE ENGINEERING
PROGRAMME STRUCTURE
LEVEL-2
BASIC TECHNOLOGY COURSES**

Sr. No.	Course Code	Course Title	Course Abbr	TEACHING SCHEME					EXAMINATION SCHEME						
				TH	TU	PR	Hrs	Total Credits	Theory Paper		Test	PR	OR	TW	Total
									Hrs	Mark					
1	21210	Engineering Drawing	EDG	02	--	02	04	03	04	80	20	--	--	25	125
2	21211	Strength of Materials	SOM	03	--	02	05	04	03	80	20	--	--	25	125
3	21214	Manufacturing Processes	MPR	03	--	02	05	04	03	80	20	--	--	25	125
4	21249	Theory of Machines and Measurement	TMM	03	--	02	05	04	03	80	20	--	--	25	125
5	21250	Heat Power Engineering	HPE	03	--	02	05	04	03	80	20	--	--	25	125
6	21251	Automobile Transmission System	ATS	03	--	02	06	04	03	80	20	--	--	25	125
7	21252	Automobile System & Body Engineering	ASB	03	--	02	06	04	03	80	20	--	--	25	125
8	21253	Automobile Engineering Drawing	AED	02	--	04	06	04	04	80	20	--	--	50	150
TOTAL				22	--	18	44	31	26	640	160	--	--	225	1025

Level: 2

Total Courses : 08
Total Credits : 31
Total Marks : 1025

Abbreviations :

Abbr : Course Abbreviation, TH: Theory, TU: Tutorial, PR: Practical, OR: Oral, TW: Term Work

Assessment of PR / OR / TW:

- 1) All orals & practical are to be assessed by external & internal examiners.
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**PROGRAMME-DIPLOMA IN AUTOMOBILE ENGINEERING
PROGRAMME STRUCTURE
LEVEL-3
ALLIED COURSES**

Sr. No.	Course Code	Course Title	Course Abbr	TEACHING SCHEME					EXAMINATION SCHEME						
				TH	TU	PR	Hrs	Total Credits	Theory Paper		Test	PR	OR	TW	Total
									Hrs	Mark					
1	21301	Entrepreneurship and Startups	EPS	01	--	02	03	02	--	--	--	--	--	50	50
2	21303	Programing and Problem Solving	PPS	01	--	02	03	02	--	--	--	--	--	50	50
3	21308	Industrial Organization and Management	IOM	03	--	--	03	03	03	80	20	--	--	--	100
4	21309	Computer Aided Drafting	CDR	--	--	02	02	01	--	--	--	--	--	25	25
Elective I: Any ONE of the following															
5	21305	Artificial Intelligence	AIN	01	--	02	03	02	--	--	--	--	--	50	50
	21306	Internet of Things	IOT	01	--	02	03	02	--	--	--	--	--	50	50
	21310	Solid Modelling	SDM	01	--	02	03	02	--	--	--	--	--	50	50
	21317	Autotronics	AUT	01	--	02	03	02	--	--	--	--	--	50	50
TOTAL				06	---	08	14	09	03	80	20	---	---	175	275

Level: 3

Total Courses : 05
Total Credits : 10
Total Marks : 275

Abbreviations :

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Assessment of PR / OR / TW:

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**PROGRAMME-DIPLOMA IN AUTOMOBILE ENGINEERING
PROGRAMME STRUCTURE
LEVEL-4
APPLIED TECHNOLOGY COURSES**

Sr. No.	Course Code	Course Title	Course Abbr	TEACHING SCHEME					EXAMINATION SCHEME						
				TH	TU	PR	Hrs	Total Credits	Theory Paper		Test	PR	OR	TW	Total
									Hrs	Mark					
1	21410	Industrial Training	INT	--	--	--	35	14	--	--	--	--	100	100	200
2	21411	Project	PRO	--	--	04	04	02	--	--	--	--	50	50	100
3	21416	Advanced Manufacturing Processes	AMP	03	--	02	05	04	03	80	20	25	--	25	150
4	21445	Design of Automobile Components	DAC	03	--	02	05	04	04	80	20	---	25	25	150
5	21446	Automobile Engines	AEN	03	--	02	05	04	03	80	20	--	25	25	150
6	21447	Automobile Electrical and Electronics Systems	AES	03	--	02	05	04	03	80	20	--	25	25	150
TOTAL				12	--	12	59	32	13	320	80	25	225	250	900

Level: 4

Total Courses : 06
Total Credits : 32
Total Marks : 900

Abbreviations :

Abbr : Course Abbreviation, TH: Theory, TU: Tutorial, PR: Practical, OR: Work

Assessment of PR / OR / TW: Oral, TW: Term

- 1) All orals and practical are to be assessed by external & internal examiners.
- 2) TW are to be assessed by internal examiners.

Note: In plant Training and Seminar

PROGRAMME-DIPLOMA IN AUTOMOBILE ENGINEERING
PROGRAMME STRUCTURE
LEVEL-5
DIVERSIFIED COURSES

Sr. No.	Course Code	Course Title	Course Abbr	TEACHING SCHEME					EXAMINATION SCHEME						
				TH	TU	PR	Hrs	Total Credits	Theory Paper		Test	PR	OR	TW	Total
									Hrs	Mark					
01	21553	Transport Management	TMI	02	--	02	04	03	03	80	20	--	25	25	150
02	21554	Vehicle System Maintenance	VSM	03	--	02	05	04	03	80	20	--	25	25	150
03	21555	Electric Vehicles	ELV	03	--	02	05	04	03	80	20	--	--	25	125
04	21556	Industrial Fluid Power	IFP	02	--	02	04	03	03	80	20	--	--	25	125
05	21557	Advanced Automobile Engines	AAE	03	--	02	05	04	03	80	20	--	25	25	150
Elective II: Any One of the following															
06	21513	Farm Equipments and Machinery	FEM	02	--	02	04	03	03	80	20	---	--	50	150
	21558	Automobile Air Conditioning	AAC	02	--	02	04	03	03	80	20	---	--	50	150
	21559	Automobile Pollution	AUP	02	--	02	04	03	03	80	20	---	--	50	150
	21560	Automobile Infotronics	AIT	02	--	02	04	03	03	80	20	---	--	50	150
TOTAL				15	---	12	27	21	18	480	120	--	75	175	850

Level: 5

Total Courses : 06
Total Credits : 21
Total Marks : 850

Assessment of PR / OR / TW:

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**PROGRAMME-DIPLOMA IN AUTOMOBILE ENGINEERING
PROGRAMME STRUCTURE
AUDIT COURSES**

Sr. No.	Course Code	Course Title	Course Abbr	Contact Hours Per Week (TH)	Contact Hours Per Week (PR)	Total Contact Hours Per Week
1	21001	Environmental Science	EVS	2	--	2
2	21002	Sports and Yoga	SPY	--	2	2
3	21003	Essence of Indian Knowledge and Tradition	IKT	2	--	2
4	21004	Indian Constitution	ICT	2	--	2

Total Courses : 04

Total Credits : Nil

Total Marks : --

PROGRAMME-DIPLOMA IN AUTOMOBILE ENGINEERING

Courses for Award of Class

Sr. No.	Course code	Course Title	Course Abbr	TEACHING SCHEME				EXAMINATION SCHEME						
				TH	TU	PR	Total Credits	Theory Paper		Test	PR	OR	TW	Total
								Hrs	Mark					
01	21308	Industrial Organization and Management	IOM	03	--	--	03	03	80	20	--	--	--	100
02	21410	Industrial Training	INT	--	--	--	14	--	--	--	--	100	100	200
03	21411	Project	PRO	--	--	04	02	--	--	--	--	50	50	100
04	21445	Design of Automobile Components	DAC	03	--	02	04	04	80	20	---	25	25	150
05	21446	Automobile Engines	AEN	03	--	02	04	03	80	20		25	25	150
06	21447	Automobile Electrical and Electronics Systems	AES	03	--	02	04	03	80	20	--	25	25	150
07	21553	Transport Management	TMI	02	--	02	03	03	80	20	--	25	25	150
08	21554	Vehicle System Maintenance	VSM	03	--	02	04	03	80	20	--	25	25	150
09	21555	Electric Vehicles	ELV	03	--	02	04	03	80	20	--	--	25	125
10	21556	Industrial Fluid Power	IFP	02	--	02	03	03	80	20	--	--	25	125
11	21557	Advanced Automobile Engine	AAE	03	--	02	04	03	80	20	--	25	25	150
Any Two from Elective II														
12	21513	Farm Equipments and Machinery	FEM	02	--	02	03	03	80	20	---	---	50	150
	21558	Automobile Air Conditioning	AAC	02	--	02	03	03	80	20	---	---	50	150
	21559	Automobile Pollution	AUP	02	--	02	03	03	80	20	---	---	50	150
	21560	Automobile Infotronics	AIT	02	--	02	03	03	80	20	---	---	50	150
TOTAL				28	--	28	52	31	800	200	--	300	400	1700

Total Courses : 12
 Total Credits : 52
 Total Marks : 1700

Assessment of PR / OR / TW:

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**PROGRAMME-DIPLOMA IN AUTOMOBILE ENGINEERING
SAMPLE PATH
ENTRY LEVEL-10+**

**PROGRAMME-DIPLOMA IN AUTOMOBILE ENGINEERING
SAMPLE PATH
ENTRY LEVEL-10+**

Nature of Course	First Year		Second Year		Third Year		Total
	Odd Term	Even Term	Odd Term	Even Term	Odd Term	Even Term	
Compulsory	21101 (03) CMS [04]	21103 (03) AMT [03]	21211 (04) SOM [05]	21301 (02) EPS [03]	21411 (02) PRO [04]	21410 (14) INT [35]	
	21102 (03) EMT [03]	21104 (04) PHY [05]	21214 (04) MPR [05]	21308 (03) IOM [03]	21553 (03) TMI [04]		
	21105 (04) CHY [05]	21108 (04) EMH [05]	21447 (04) AES [05]	21416 (04) AMP [05]	21554 (04) VSM [05]		
	21107 (02) EGR [04]	21109 (02) WSP [04]	21249 (04) TMM [05]	21445 (04) DAC [05]	21556 (03) IFP [05]		
	21110 (01) ITS [02]	21309 (01) CDR [02]	21251 (04) ATS [05]	21446 (04) AEN [05]	21557 (04) AAE [05]		
	21303 (02) PPS [03]	21210 (03) EDG [04]	21253 (04) AED [06]	21252 (04) ASB [05]			
		21250 (04) HPE [05]		21555 (04) ELV [05]			
Total Hours []	21	28	31	31	23	35	171
Total Credit () (Compulsory)	15	21	24	22	19	14	115
Elective	--		Any ONE course from Elective I (21305 AIN, 21306 IOT, 21310 SDM, 21317 AUT) (02) [03]		Any ONE course from Elective II (21513 FEM, 21558 AAC, 21559 AUP, 21560 AIT) : (03) [04]		
Total Credit (Elective)	--	--	02	--	03	--	05
Audit courses	21001 EVS [2]	21002 SPY [2]		21003 IKT [2]	21004 ICT [2]		
Total Hours []	23	30	34	33	27	35	186
Total courses	06	07	07	07	06	01	34
Total Credit (Elective + Compulsory)	15	21	26	25	22	14	120
Grand Total of Credits							120