Diploma in Automobile Engineering

Syllabus Document

EFFECTIVE FROM ACADEMIC YEAR 2021-22

Program Summary

Duration of the Program: 03 Years

Program Vision

To produce professionally sound and responsible automobile engineers with the knowledge and skills in vehicle manufacturing, testing and maintenance of automobiles to meet ever changing needs of the global automotive industry and the society.

Program Outcome

- **Basic Knowledge/Skills**
  Apply the knowledge of mathematics, science fundamentals, and an engineering expertise to the solving of automotive engineering problems.

- **Technical Knowledge/Skills**
  Apply the knowledge of basics of automobile engineering, engineering mechanics, hydraulics and pneumatics, autotronics and manufacturing technology to find the solution of automotive engineering problems.

- **Software Skill and Project Skills**
  Identify and use appropriate engineering resources, current engineering and information technology tools to comprehend the limitations of automobile engineering operations.

- **Personality Traits and Ethics**
  Demonstrate the knowledge and necessity of sustainable development of professional solutions in societal and environmental situations.
  Apply common sense and commit themselves to professional ethics and engineering practices obligations and standards.

- **Soft Skills**
  Effectively communicate with the engineering community and society as a whole on the automotive engineering tasks, such as being able to understand and create good reports, to deliver effective presentations and clear directions.

Credit Scheme

S. No.	Subject Code	Course Titles	Hours/week			Total Credits
			Semester I			
			L	T	P	
1	AE-FC101	Applied Mathematics-I	3	1	0	4
2	AE-FC102	Basic Sciences*	4	0	2	5
3	AE-FC103	Basic Engineering Graphics	0	0	6	3
4	AE-FC104	Basic Engineering Workshop Technology	1	0	4	3
5	AE-HS101	Face The World (FTW) Skills -I	-	-	-	3
6	AE-HS102	English Communication-I	2	0	0	2
7	AE-HS103	Sports & Yoga	0	0	2	1
8	AE-PC101	Automotive Layouts And Systems	1	0	2	2
		TOTAL	11	1	16	23

*Basic Sciences includes Applied Physics and Applied Chemistry of 2.5 credits each

Semester II						
S. No.	Subject Code	Course Titles	Hours/week			Total Credits
			L	T	P	
1	AE-HS201	Face The World (FTW) Skills -II	-	-	-	1
2	AE-HS202	English Communication -II	0	0	2	1
3	AE-HS203	Environmental Studies	-	-	-	1
4	AE-FC201	Applied Mathematics-II*	3	1	0	4
5	AE-FC202	Engineering Drawing-2***	0	0	6	3
6	AE-PC201	Fundamentals Of Thermal Engineering	3	0	0	3
7	AE-PC202	Vehicle Servicing & Preventive Maintenance	3	0	0	3
8	AE-PC203	Computer Aided Drafting (Diploma Specific)	1	0	4	3
9	AE-PC204	Autoshop Practice & Preventive Maintenance	0	0	6	3
		TOTAL	10	1	18	22

Summer Industrial/In-house Training: After 2nd semester, students shall undergo Summer Training of 4 Weeks.

The syllabus of English Communication, Face the World Skills, EVS and Sports & Yoga are common across all the diploma programs and are given separately. The syllabus for Applied Mathematics I & II, Basic Sciences, Basic Engineering Workshop Technology and Basic Engineering Graphics are also given separately.