INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY

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IGNOU

M.Tech. IN ADVANCED INFORMATION TECHNOLOGY WITH SPECIALIZATION IN AUTOMOTIVE ENGINEERING AND e-MANUFACTURING (MTECHAE)

2 years, full-time and residential

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FOCUS AREAS
▶ Hybrid Engines
▶ Automotive Electronics
▶ Powertrain System

"The automotive industry is huge and requires a vast array of different skills in place if we are going to remain competitive. With this diversity of skills needs 'one size fits all' is definitely not an option and the industry driven Automotive Skills is the right organization to develop and deliver what the industry demands." - Christopher Macgowan, Chief Executive, The Society of Motor Manufacturers and Traders

India has emerged as the automobile manufacturing and automotive service hub of the world in last two decades. India is the fourth largest exporter of automobiles in the world and has surpassed China in the Asian market. Indian automobile companies have expanded their operation across the globe and at the same time owing to India's growing economic prowess automobile MNCs have shifted or started their design and manufacturing operations to India. By 2009 India has emerged as the largest manufacturer of small cars in the world. The paradigm shift taking place in the auto industry has created opportunities to visualize and materialize innovative designs to address the challenges in the 21st Century. This program has been designed to provide students with necessary foundation in automobile engineering to pursue research and to explore new horizons.

ELIGIBILITY

Graduates / Postgraduates with a Bachelors Degree in Engineering / Technology in Automobile / Aeronautical/ Mechanical / Production / Mechatronics (with minimum 55 percent marks or equivalent grades)

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COURSE STRUCTURE

SEMESTER	CODE	COURSE NAME	CREDITS
SEMESTER I			
	MINI-001	Engineering Sciences I	6
	MINI-060	Body and Chassis Design	6
	MINI-061	Mechanical Systems	6
	MINI-062	Electrical Systems	6
	MINI-063	Vehicle Dynamics	6
	MINI-064	Power Train Systems	6
	MINI-065	Seminar	4
	MIN-001	Life Skill Development I	6
		Total	46
SEMESTER II			
	MINI-006	Engineering Sciences II	6
	MINI-066	Vehicle Engine Technology	6
	MINI-067	Control System	6
	MINI-068	CAD / CAM / CAE / Matlab	6
	MINI-069	Hybrid and Electrical Vehicle	6
	MINI-070	Emission Control System	6
	MIN-002	Life Skill Development II	6
		Total	42
SEMESTER III			
	MINP-015	Project Phase I	36
SEMESTER IV			
	MINP-016	Project Phase II	48
Total Credits			**172**

Delivery of an elective will be subject to availability of domain expert / faculty as well as minimum number of students for that particular elective