

- **Industrial Engineering**

<b>Course No</b>	<b>Course Title</b>	<b>Hours/Week</b>	<b>Credit</b>
IPE 6001	Advanced Operations Research	03	03
IPE 6003	Operations Management	03	03
IPE 6005	Materials Management and Inventory Control	03	03
IPE 6007	Total Quality Management	03	03
IPE 6009	Maintenance and safety Management	03	03
IPE 6011	Construction Management	03	03
IPE 6013	Managerial Economics	03	03
IPE 6015	Marketing Management	03	03
IPE 6017	Multi Criterion Decision Modeling	03	03
IPE 6019	International Economics	03	03
IPE 6021	Contemporary Management Theory and Practice	03	03
IPE 6023	Management Accounting	03	03
IPE 6025	Technology Management	03	03
IPE 6027	Supply chain management	03	03
IPE 6029	Business Communications	03	03
IPE 6031	Organizational Behavior	03	03
IPE 6033	Entrepreneurship and Business Development	03	03
IPE 6035	Management of Innovation	03	03
IPE 6037	Contract Management	03	03
IPE 6039	Strategic Management	03	03

IPE 6041	Financial Management	03	03
IPE 6043	Human Resource Management	03	03
IPE 6045	Management of Creativity and Technology	03	03
IPE 6047	Intelligent Manufacturing systems	03	03
IPE 6049	Project Management	03	03
IPE 6051	E-Commerce and International Trade	03	03
IPE 6053	Socio-Economic Aspects of Development Projects	03	03
IPE 6055	Transportation Engineering	03	03
IPE 6057	Transportation Engineering Economics	03	03
IPE 6059	GIS and Remote Sensing	03	03

- **Production Engineering**

<b>Course No</b>	<b>Course Title</b>	<b>Hours/Week</b>	<b>Credit</b>
IPE 6101	Advanced Machine Tools	03	03
IPE 6103	Modern Manufacturing processes	03	03
IPE 6105	Welding and Other Joining Processes	03	03
IPE 6107	Advanced Mechanics of Materials	03	03
IPE 6109	Composite Materials	03	03
IPE 6111	Advanced Vibration Engineering	03	03
IPE 6113	Theory of Elasticity and Plasticity	03	03
IPE 6115	Computer Integrated Manufacturing System	03	03

- **Engineering Mathematics**

<b>Course No</b>	<b>Course Title</b>	<b>Hours/Week</b>	<b>Credit</b>
IPE 6201	Advanced Numerical Analysis	03	03
IPE 6203	Finite Elements in Engineering	03	03
IPE 6205	Engineering Statistics	03	03

- **Automation Engineering**

<b>Course No</b>	<b>Course Title</b>	<b>Hours/Week</b>	<b>Credit</b>
IPE 6301	Management Information System	03	03
IPE 6303	Advanced Control Theory and Automation	03	03
IPE 6305	Applied Mechatronics	03	03

- **Energy & Environmental Engineering**

<b>Course No</b>	<b>Course Title</b>	<b>Hours/Week</b>	<b>Credit</b>
IPE 6401	Industrial Environment Management	03	03
IPE 6403	Renewable Energy	03	03
IPE 6405	Solid Waste Management	03	03
IPE 6407	Municipal and Rural Sanitation	03	03
IPE 6409	Industrial Pollution & Control	03	03
IPE 6411	Environmental Impact Assessment	03	03
IPE 6413	Industrial water and waste Treatment	03	03

If necessary courses offered by the other departments of this University may be taken. Such permission will be given by the Head of the department consulting with the Course Advisor. However such courses generally will not be counted for degree requirement. In special circumstances such permission may be sought from Academic Council of this University.