

ME “AUTOMATED MANUFACTURING SYSTEMS”
Department of Production Engineering
 BIT Mesra, Ranchi-835215

FIRST SEMESTER

Code	NAME OF SUBJECT	L	T	P	C
MPE 1001	Manufacturing Automation	3			3
MPE 1003	Computer Aided Manufacturing	3			3
MPE 1005	Quality Engineering and Robust Design	3	1		4
----	Breadth Subject-I	3			3
----	Elective- Group-I	3			3
MPE 1002	Computer Aided Manufacturing Laboratory			3	2
MPE 1004	Computer Aided Design & Drafting Laboratory			3	2

Total 20 Credit

SECOND SEMESTER

Code	NAME OF SUBJECT	L	T	P	C
MPE 2001	Robotics & Robot Applications	3			3
MPE 2003	Integrated Manufacturing & Resource Planning	3			3
MPE 2005	Soft Computing in Manufacturing Automation	3	1		4
----	Breadth Subject-II	3			3
----	Elective- Group-II	3			3
MPE 2002	IMS Laboratory/Coursework			3	2
MPE 2004	Manufacturing Simulation Lab			3	2

Total 20 Credit

THIRD SEMESTER

MPE 3001 Thesis (Research Work) **15 Credit**

FOURTH SEMESTER

MPE 4001 Thesis (Research Work) **20 Credit**

Elective -Group-I (any one)

Credit

MPE 1007	Manufacturing Strategies & Sustainable development	3
MPE 1009	Planning & Control of Production System	3
MEC 1053	Microcontroller based system design	3
MPE 1011	Ergonomics & Work System Design	3
MPE 1013	Reliability Engineering	3
MPE 1015	Modeling and Simulation	3

Elective-Group- II (any one)

MPE 2007	Product Design & Manufacturing	3
MPE 2009	Maintenance Technology	3
MPE 2011	Optimization Techniques	3
MPE 2013	Manufacturing System Design	3
MPE 2015	Rapid Prototyping & Tooling	3
MPE 2017	Advance Manufacturing Science	3

As approved by board of studies (09/06/2011)

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Breadth Subject offered by department:

MPE 1005 Quality Engineering and Robust Design

MPE 1011 Ergonomics & Work System Design

MPE 2015 Rapid Prototyping & Tooling

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