

Board of studies in Mechanical Engineering, Automobile Engineering and  
Production Engineering under the faculty of Engineering and Technology,  
NMU Jalgaon

**List of Equivalence courses at TE and BE**  
**TE Mechanical Engineering**  
**Semester -V**

<b>Sr. No.</b>	<b>Old Syllabus( 2007-2008)</b>	<b>Equivalent (New )Subject</b>
1	Heat Transfer and Mass Transfer	Heat Transfer
2	Machine Design - I	Machine Design - I
3	Numerical Analysis and Computational Methods	Numerical Analysis and Computational Methods - SEM- VI
4	Theory of Machine – II	Theory of Machine – II
5	Internal Combustion Engine	Internal Combustion Engine

**TE Mechanical Engineering**  
**Semester-VI**

<b>Sr. No.</b>	<b>Old Syllabus( 2007-2008)</b>	<b>Equivalent (New )Subject</b>
1	Engineering Metallurgy	<b>No Equivalence</b>
2	Machine Design - II	Machine Design II
3	Turbo Machinery	Turbo Machinery
4	Mechanical Measurement and Metrology	Metrology and Quality Control
5	Project and Business Management	Project and Business Management

**BE Mechanical Engineering**  
**Semester -VII**

<b>Sr. No.</b>	<b>Old Syllabus( 2008-2009)</b>	<b>Equivalent (New )Subject</b>
1	Refrigeration and Air Conditioning	Refrigeration And Air Conditioning
2	CADCAM	CADCAM
3	Mechatronics Systems	Mechatronics Systems Elective - I
4	Operational Research	Operational Research

5	Energy Conservation and Management - Elective- I	Energy Conservation and Management - Elective- Iii
6	Advanced Machine Design - Elective- I	Advanced Machine Design - Elective- I
7	Machine Tool Design - Elective- I	Machine Tool Design - Elective- I
8	Product Development and Rapid Prototyping - Elective- I	<b>No Equivalence</b>
9	Automobile Engineering - Elective- I	Automobile Engineering - I - Elective- I
10	Fluid Machinery - Elective- I	<b>No Equivalence</b>

### **BE Mechanical Engineering Semester-VIII**

<b>Sr. No.</b>	<b>Old Syllabus( 2008-2009)</b>	<b>Equivalent (New )Subject</b>
1	Finite Element Analysis and Simulation	Finite Element Analysis and Simulation Techniques
2	Mechanical Vibration	Mechanical Vibration
3	Tribology	Tribology - Elective- II
4	Power Plant Engineering - Elective- II	Power Plant Engineering - Elective- II
5	Process Equipment Design - Elective- II	Process Equipment Design - Elective- II
6	Introduction To Robotics - Elective- II	Introduction To Robotics - Elective- Iii
7	Advanced Welding Technology - Elective- II	Advanced Welding Technology - Elective- III
8	Energy Engineering - Elective- II	<b>No Equivalence</b>
10	Industrial Fluid Power - Elective- II	<b>No Equivalence</b>

**List of Equivalence courses at TE and BE**  
**TE Automobile Engineering**  
**Semester -V**

<b>Sr. No.</b>	<b>Old Syllabus( 2007-2008)</b>	<b>Equivalent (New )Subject</b>
1	Design of Machine Element	Design of Machine Element
2	CAD/CAM	<b>No Equivalence</b>
3	Theory of Machine – II	Theory of Machine – II
4	I. C. Engine	I. C. Engine
5	Heat Transfer and Mass Transfer	Heat Transfer

**TE Automobile Engineering**  
**Semester-VI**

<b>Sr. No.</b>	<b>Old Syllabus( 2007-2008)</b>	<b>Equivalent (New )Subject</b>
1	Engineering Metallurgy	<b>No Equivalence</b>
2	Automobile System-I	Automobile System
3	Automobile Engines	<b>No Equivalence</b>
4	Mechanical Measurement and Metrology	Metrology & Quality Control
5	Transport Mgt. & Safety Regulation	Transport Mgt. & Safety Regulation (Sem. V)

**BE Automobile I Engineering**  
**Semester -VII**

<b>Sr. No.</b>	<b>Old Syllabus( 2008-2009)</b>	<b>Equivalent (New )Subject</b>
1	Vehicle Testing and Evaluation	Vehicle Testing and Evaluation
2	Special Purpose Vehicle	Special Purpose Vehicle Sem- VII
3	Mechatronics Systems	<b>No Equivalence</b>
4	Automobile Electrical Systems	<b>No Equivalence</b>
5	Vehicle Body Engineering - Elective- I	Vehicle Body Engineering - Elective- I
6	Numerical Analysis and Computational Methods - Elective- I	Numerical Analysis And Computational Methods - Elective- I

7	Tribology - Elective- I	Tribology - Elective- I
9	Advanced Welding Technology - Elective- I	Advanced Welding Technology - Elective- III

### **BE Automobile Engineering Semester-VIII**

<b>Sr. No.</b>	<b>Old Syllabus( 2008-2009)</b>	<b>Equivalent (New )Subject</b>
1	Automobile Dynamics	Automobile Dynamics
2	Automobile Design	Automobile System Design - Sem- VII
3	Automobile Service and Repair	Automobile Service And Repair Sem- VII
4	Automobile Painting and Collision Repair- Elective - II	Automobile Painting And Collision Repair- Elective - II
5	CADCAM and Automation Elective - II	Computer Aided Design and Computer Aided Manufacturing- Elective - II
6	Supply Chain Management Elective - II	<b>No Equivalence</b>
7	Analysis and Synthesis of Mechanism Elective - II	Analysis and Synthesis of Mechanism Elective - II