

S-30th Sept., 2014 AC after Circulars from Circular No.112 & onwards - 21 -

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY**CIRCULAR NO. ACAD/SU/Engg./Equivalence/123/2014**

It is hereby informed to all the concerned that, the **Chairmen, Board of Studies and the Dean, Faculty of Engineering and Technology** has recommended to give **“Equivalence to the M.E. (all branches) and M.C.A. (CSE/IT) Ist & IInd Year”** due to revised the **syllabi**. The Hon'ble Vice-Chancellor has accepted the said equivalence on behalf of the Academic Council Under Section-14(7) of the Maharashtra Universities Act, 1994 as appended herewith.

This is effective from the Academic Year 2014-15 and onwards Examination.

All concerned are requested to note the contents of this circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus, ★
Aurangabad-431 004. ★
REF.NO. ACAD/SU/ENGG./EQV./ ★
2014/31571-95 ★
Date:- 13-11-2014. ★


Director,
Board of College and
University Development.

Copy forwarded with compliments to:-

- 1] The Principals, affiliated concerned Colleges,
Dr. Babasaheb Ambedkar Marathwada University.

Copy to :-

- 1] The Controller of Examinations,
 - 2] **The Superintendent, [Engineering Unit],**
 - 3] **The Superintendent, [Co-Ordination],**
 - 4] The Programmer [Computer Unit-1] Examinations,
 - 5] The Programmer [Computer Unit-2] Examinations,
 - 6] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
 - 7] The Public Relation Officer,
 - 8] The Record Keeper,
- Dr. Babasaheb Ambedkar Marathwada University.**

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ME Subject Equivalence

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

Board of Studies in Civil Engineering
 Equivalent subjects of M.E. (Civil Structure) Part- I & II Pre- revised course to
 revised course of M.E. (Civil Structure) Part- I & II effective from
 Academic Year 2014-15

Sr.No	M.E (Civil Structure) Pre- revised (100- Marks Pattern)	Equivalent subject in M.E. (Civil Structure) revised course (80/20- Marks Pattern)
1.	Theory of Elasticity & Plasticity	Theory of Elasticity and Plasticity
2.	Structural Analysis-I	Advanced Structural mechanics-I
3.	Concrete Technology	Advanced concrete Technology.
4.	Structural Dynamic & Earthquake Engg.	Structural dynamic and Earthquake Engg.
5.	Elective-I: Finite Element Method	— Bridge Engineering.
6.	Elective-I: Earthquake Engineering	Analysis of composite structures.
7.	Elective-I: Limits State Design of RCC Str.	Advanced design of concrete structures.
8.	Computational Techniques	Numerical methods.
9.	Structural Analysis-II	Advanced Structural mechanics-II
10.	Structural Analysis-III	Finite element method.
11.	Theory of Plates & Shells	Theory of plates and shells.
12.	Elective-II: Structural Stability	Structural stability.
13.	Elective-II: Plastic Design of Steel Structures	— Design of composite construction.
14.	Elective-II: Inelastic Analysis of Plates	Inelastic Analysis of plates.



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 BOS [Civil]

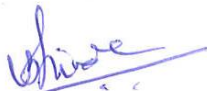
ME Subject Equivalence

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

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Board of Studies in Civil Engineering
 Equivalent subjects of M.E. (Env. Engg.) Part- I & II Pre- revised course to
 revised course of M.E. (Env. Engg.) Part- I & II effective from
 Academic Year 2014-15

Sr.No	M.E (Env. Engg.) Pre- revised (100- Marks Pattern)	Equivalent subject in M.E. (Env. Engg.) revised course (80/20- Marks Pattern)
1.	Air Pollution & Control	Air pollution and control.
2.	Environmental Chemistry	Environmental chemistry and microbiology.
3.	Advanced Water Treatment	Advanced Water treatment Technology.
4.	Environmental Management	Environmental management.
5.	Environmental Geo Technology	Environmental Geo- Technology.
6.	Advanced Waste Water Treatment	Advanced Waste Water treatment Technology.
7.	Comp. & Stat. Methods in Env. Engg.	computational and statistical methods in Environment Engineering.
8.	Solid Waste & Hazard. Waste Mgt.	Solid Waste and Hazardous Waste management.
9.	Env. Legislation & Policies	Water Resources Engg and Applied Hydr.
10.	Elective-II: Environmental Micro-Biology	Non- point sources of pollution and management.



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BOS [Civil]

ME Subject Equivalence

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD. 3

Board of Studies in Civil Engineering
Equivalent subjects of M.E. (WRE) Part- I & II Pre- revised course to
revised course of M.E. (WRE) Part- I & II effective from
Academic Year 2014-15

Sr.No	M.E (WRE) Pre- revised (100- Marks Pattern)	Equivalent subject in M.E. (WRE) revised course (80/20- Marks Pattern)
1.	Computational & Statical Methods	computational and statistical methods.
2.	Engg. Hydrology & Hydrologic Systems	Engineering Hydrology and Hydrologic Systems.
3.	Ground Water Engineering	Ground water Engineering.
4.	Advanced Fluid Mechanics	Advanced Fluid mechanics.
5.	Elective-I: Water Supply Systems	Water supply systems.
6.	Elective-I: Technique of Water Application	Techniques of water application.
7.	Elective-I: GIS App. in Water Res. Engg.	GIS applications in water Resources Engineering.
8.	Hydro. Struct./ Soil Water Conv.Engg.	Hydraulic Structures.
9.	Water Resor. System Plan. & Mgt.	Water Resources Systems Planning and management.
10.	Land & Water Management	Land and water management.
11.	Channel & River Hydraulics	channel and River Hydraulics.
12.	Elective-II: Neuro Fuzzy Applications	Neuro Fuzzy Applications.
13.	Elective-II: Env. Evalu. of Water Res. Dev.	Environmental Evaluation of Water Resources development.
14.	Elective-II: Water Power Engineering	Water Power Engineering.


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Board of Studies in Civil Engineering

Equivalent subjects of M.E. (Manufacturing Engg.) Part- I & II Pre- revised course to revised course of M.E. (Manufacturing Engg.) Part- I & II effective from Academic Year 2014-15

Sr.No	M.E (Manufacturing Engg.) Pre- revised (100- Marks Pattern)	Equivalent subject in M.E. (Manufacturing Engg.) revised course (80/20- Marks Pattern)
1.	Advanced Machine Tool Design	Advanced machining science.
2.	Computer Integrated Manufacturing	Computer Integrated manufacturing.
3.	Manufacturing Management	manufacturing management
4.	Manufacturing Process Modelling	manufacturing process modelling
5.	Elective-I: Composite Materials	Processing of Advanced materials.
6.	Elective-I: Tribology	Tribology - El-II
7.	Elective-I: Human Factors in Design & Mfg.	Product design for manufacturing.
8.	Elective-I: Microcontrollers and Application	Robotics & manufacturing Automation.
9.	Advanced Manufacturing Techniques	Processing of Advanced material
10.	Robotics & Robot Applications	Robotics & manufacturing Automation
11.	Reliability Engineering	Reliability & maintenance engg. El-II
12.	Facility Design and Planning	Advanced optimization Tech.
13.	Elective-II: Finite Elements Methods	manufacturing process modeling.
14.	Elective-II: Design for Manufacturing	Product design for manufacturing.
15.	Elective-II: Product Life Cycle Management	Computer Integrated manufac.
16.	Elective-II: Advanced Material Forming	metal forming processing


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ME Subject Equivalence

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

Board of Studies in Civil Engineering

Equivalent subjects of M.E. (Mechanical) Part- I & II Pre- revised course to revised course of M.E. (Mechanical) Part- I & II effective from

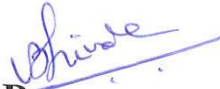
Academic Year 2014-15

Sr.No	M.E (Mechanical) Pre- revised (100- Marks Pattern)	Equivalent subject in M.E. (Mechanical) revised course (80/20- Marks Pattern)
1.	Advanced Optimization Techniques	Advanced optimization tech.
2.	Modern Engineering Materials	modern engg. materials.
3.	Advanced IC Engines	Advanced IC Engines.
4.	Elective-I: Computational Mod. & Simulation	EL-I - Comp. mode. & simulation.
5.	Elective-I: Maintenance & Reliability Engg.	EL-I - Maintenance & Reliability Engg.
6.	Elective-I: Advanced Thermodynamics	EL-I Advanced Thermodynamics.
7.	Elective-II: Machines Trace Analysis	EL-II machine stress Analysis.
8.	Elective-II: Productivity Management	EL-II - productivity management
9.	Elective-II: Advanced Heat Transfer	EL-II - Advanced Heat Transfer.
10.	Advanced Machine Design	Advanced machine Design.
11.	Advanced Manufacturing Techniques	Advanced manufacturing Tech.
12.	Engineering Experimental Technique	Engg. Experimental Tech.
13.	Ele-III: Finite Elements Methods	Finite elements methods.
14.	Ele-III: Computer Aided Design	Computer Aided Design.

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ME Subject Equivalence

15.	Ele-III: Computational Fluid Dynamics	Computational fluid dynamics.
16.	Elective-IV: Mechanical Vibrations	mechanical vibrations.
17.	Elective-IV: Computer Integrated Manufa.	Computer Integrated manufac.
18.	Elective-IV: Refrigeration & Cryogenic Sys.	Refrigeration & Cryogenic sys.

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ME Subject Equivalence

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Board of Studies in Civil Engineering

Equivalent subjects of M.E. (Desingn Engg.) Part- I & II Pre- revised course to
revised course of M.E. (Desingn Engg.) Part- I & II effective from
Academic Year 2014-15

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Sr.No	M.E (Desingn Engg.) Pre- revised (100- Marks Pattern)	Equivalent subject in M.E. (Desingn Engg.) revised course (80/20- Marks Pattern)
1.	Computational Techniques in Design Engg.	Comp. Tech. in Design Engg.
2.	Machine Stress Analysis	machine stress Analysis.
3.	Finite Element Methods	Finite element methods.
4.	Design of Experiments & Res. Methodology	Design of Ex. & Res. Methods.
5.	Elective-I: Reliability Engineering	Reliability Engg.
6.	Elective-I: Advanced Material Science	Advanced material science.
7.	Elective-I: Experimental Stress Analysis	Experimental stress Analysis.
8.	Design Engineering	Design Engg.
9.	Mechanical Vibration Analysis	mechanical vibration Analysis.
10.	Analysis & Synthesis of Mechanism	Analysis & synthesis of mechanism.
11.	Industrial Product Design	Industrial product Design.
12.	Elective-II: Advanced Optimization Tech.	Advanced opt. Tech.
13.	Elective-II: Simulation & Mathematical Mod.	simulation & mathe. mode.
14.	Elective-II: Machine Tool Design	machine Tool Design.
15.	Elective-II: Industrial Instrumentation	Industrial Instrumentation.



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Board of Studies in Civil Engineering

Equivalent subjects of M.E. (CAD/CAM) Part- I & II Pre- revised course to revised course of M.E. (CAD/CAM) Part- I & II effective from

Academic Year 2014-15

Sr.No	M.E (CAD/CAM) Pre- revised (100- Marks Pattern)	Equivalent subject in M.E. (CAD/CAM) revised course (80/20- Marks Pattern)
1.	Advanced Machine Design	Advanced machine design
2.	Computer Aided Design	Computer Aided Design.
3.	Concurrent Product Design	Concurrent Product Design.
4.	Elective-I: Lean Manufacturing	Lean manufacturing.
5.	Elective-I: Database Management System	Database management system.
6.	Elective-I: Enterprises Resource Planning	Enterprises Resource Planning.
7.	Elective-I: System Dynamics	System dynamics.
8.	Elective-II: Sheet Metal Mod. & Manufa.	Sheet metal mod. & manufa.
9.	Elective-II: Product Life Cycle Management	Product life cycle mgmt.
10.	Elective-II: Automated Material Hand. Sys.	Automated material Hand. syst.
11.	Computer Aided Analysis	Computer Aided Analysis.
12.	Computer Aided Manufacturing	Computer Aided manufacturing.
13.	Advanced Manufacturing Technology	Advanced manufacturing Tech.
14.	Elective-III: Reliability Engg. & Life Testing	Reliability engg. & life Testing.

ME Subject Equivalence

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15.	Elective-III: Customi. of CAD/CAM Soft.	Customi. of Cad/cad soft.
16.	Elective-III: Computational Fluid Dynamic	Computational Fluid Dynamics
17.	Elective-III: Project Management	Project management
18.	Elective-IV: Design for 'X'	Design for X
19.	Elective-IV: Robust Design of Product/Pro.	Robust Design of Product.
20.	Elective-IV: Digital Manufacturing	Digital manufacturing.

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BOS [MECH]

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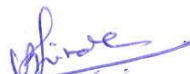
ME Subject Equivalence

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

Board of Studies in Civil Engineering

Equivalent subjects of M.E. (Mechanical Heat Power) Part- I & II Pre- revised course to revised course of M.E. (Mechanical Heat Power) Part- I & II effective from Academic Year 2014-15

Sr.No	M.E (Mechanical Heat Power) Pre-revised (100- Marks Pattern)	Equivalent subject in M.E. (Mechanical Heat Power) revised course (80/20- Marks Pattern)
1.	Mathematical Method	Computational mathematics.
2.	Advanced Thermodynamics	Advanced Thermodynamics.
3.	Advanced Fluid Mechanics	Advanced fluid mechanics.
4.	Refrigeration and Cryogenics	Refrigeration & cryogenics.
5.	Elective-I: Design of Thermal System	Energy systems modelling & analysis.
6.	Elective-I: Fuels and Combustion	Fuels and Combustion.
7.	Elective-I: Renewal Energy System	Renewal energy system.
8.	Experimental Methods	Experimental methods.
9.	Advanced I.C. Engines	Advanced I.C. engines
10.	Advanced Heat Transfer	Advanced Heat & mass transfer
11.	Turbo Machinery	Turbo machinery.
12.	Elective-II: Design of HVAC Systems	Energy systems modelling & analysis.
13.	Elective-II: Energy Mgt. of Thermal Sys.	Energy mgt. of thermal sys.
14.	Elective-II: Computational Fluid Dynamics	Computational Fluid Dynamics.



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ME Subject Equivalence

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

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Board of Studies in Electronics Engineering
 Equivalent subjects of **M.E. (Electronics) Part- I & II** Pre- revised course to
 Revised course of **M.E. (Electronics) Part- I & II** effective from
 Academic Year 2014-15

Sr.No	M.E (Electronics) Pre- revised (100- Marks Pattern)	Equivalent subject in M.E. (Electronics) revised course (80/20- Marks Pattern)
1.	Advanced Digital Signal Processing	Advanced Digital Signal Processing
2.	Digital System Design	Digital System Design
3.	Advanced Instrumentation System	Advanced Control System
4.	Digital Communication system	Advanced Digital Communication system
5.	Digital Image Processing (EL- I)	Image & Video Processing
6.	Wireless & Mobile communication (EL-I)	Wireless & communication n/w(EL-II)
7.	Computer system Software (EL-I)	VLSI Design (EL-I)
8.	Computer Network	Advance Optimization Tech.
9.	Embedded System Design	Embedded System Design(EL-II)
10.	Advanced power Electronics	Advanced power Electronics
11.	Advanced Computer system	Audio Signal Processing & Coding
12.	Artificial Neural Network (EL-II)	Detection & Estimation Theory(EL-I)
13.	Pattern Reorganization (EL-II)	Pattern Reorganization(EL-II)
14.	Advanced Telematics (EL-II)	Advance Satellite communication(EL-I)


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BOS [EC/ECT/IE]

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DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.
 Board of Studies in Electronic Engineering
 Equivalent subjects of **M.E. (Electronics & Telecommuni.)** Part- I & II Pre- revised
 course to revised course of **M.E. (Electronics & Telecommuni.)** Part- I & II effective
 from Academic Year 2014-15

Sr.No	M.E (Electronics & Telecommuni.) Pre-revised (100- Marks Pattern)	Equivalent subject in M.E. (Electronics & Telecommuni.) revised course (80/20- Marks Pattern)
1.	Advanced Digital Communication System	Advanced Digital Communication System
2.	Advanced DSP	Advanced DSP
3.	Detection and Estimation Theory	Detection and Estimation Theory
4.	Mobile Communication	Wireless & Mobile Communication Systems
5.	Elective-I: Advanced Digital Image Pro.	Elective-I: Advanced Digital Image Pro.
6.	Elective-I: Digital Data Compressor	Elective-I: Digital Signal Compression
7.	Elective-I: Optimization Techniques	Elective-I: CMOS VLSI Design
8.	Advanced Satellite Communication	Advanced Satellite Communication
9.	Micro Wave Engg.	Advanced Optimization Techniques
10.	Broad Band Communication	Image & Video Processing
11.	Speech & Audio Processing	Audio Signal Processing & Coding
12.	Elective-II: Pattern Reorganization	Elective-II: Pattern Reorganization
13.	Elective-II: Cloud Computing	Elective-II: Stastical Signal Processing
14.	Elective-II: Communication System Design	Elective-II: Embedded System Design


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 BOS [ECT]

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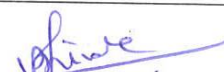
ME Subject Equivalence

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.
Board of Studies in Electronic Engineering
Equivalent subjects of **M.E. (Embedded System) Part- I & II** Pre- revised course to
Revised course of **M.E. (Embedded System) Part- I & II** effective from
Academic Year 2014-15

Sr.No	M.E (Embedded System) Pre- revised (100- Marks Pattern)	Equivalent subject in M.E. (Embedded System) revised course (80/20- Marks Pattern)
1.	Design with Micro Controllers	603-Design with microcontroller
2.	Advanced Digital System Design	602-Advanced Digital Communication System
3.	Digital Signal Processor and Applications	601-Advanced Digital Signal Processing
4.	CMOS VLSI Design	604-VLSI Design
5.	Elective-I: Image & Video Processing	641-Image and Video Processing- (EL-I)
6.	Elective-I: RF & Mixed Signal Integrated Cir.	651- Advanced Optimization Techniques
7.	Elective-I: Statistical Signal Processing	642-Artificial Intelligence(EL-I)
8.	Embedded System Design	653-Embedded System Design
9.	Advance Computer Architecture	643-Advanced Computer Architecture(EL-I)
10.	VLSI Digital signal Processing System	652-Audio Signal Processing & Coding
11.	Real Time Operating System	654-Real Time Operating System
12.	Elective-II: Reconfigurable Computing	693-Reconfigurable Computing(EL- II)
13.	Elective-II: Adaptive Signal Processing	692-Statistical Signal Processing(EL- II)
14.	Elective-II: Analog Integrated Circuit Design	Subject not available


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Faculty of Engineering
& Technology


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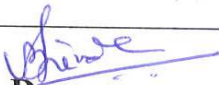
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ME Subject Equivalence

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

Board of Studies in ~~Civil~~ EngineeringEquivalent subjects of M.E. (**Communication**) Part- I & II Pre- revised course to revised course of M.E. (**Communication**) Part- I & II effective from Academic Year 2014-15

Sr.No	M.E (Communication) Pre- revised (100- Marks Pattern)	Equivalent subject in M.E. (Communication) revised course (80/20- Marks Pattern)
1.	Modern Digital Communication Techniques	602-Advanced Digital Communication System
2.	Wireless communication	693-Wireless Communication Network(EL-II)
3.	Advanced Digital Signal Processing	601-Advanced Digital Signal Processing
4.	Advanced Radiation system	604-Advanced Radiation Systems
5.	VLSI Design (EL- I)	641-CMOS VLSI Design(EL-I)
6.	Optical Communication (EL- I)	651- Optimization Techniques
7.	Communication Network (EL- I)	643-Digital Signal Compression(EL-I)
8.	Detection & Estimation Theory	603-Detection and Estimation Theory
9.	Satellite Communication	653-Advanced Satellite and Radar Communication
10.	Microwave Integrated Circuits	692-Microwave Integrated Circuits (EL-II)
11.	Broad Band Communication	652-Audio Signal Processing and Coding
12.	Global Tracking Positioning System (EL- II)	642-Global Positioning System(EL-I)
13.	EMI/EMC Telematics (EL-II)	691-Digital Signal Processor Architecture and Processing (EL-II)
14.	Sys Desing Using Embe. Pro(EL-II)	654-Image and Video Processing
15.	Wavelets Theories Construction(EL-II)	Subject not available


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 BOS [EC/ECT/IE]

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ME Subject Equivalence

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

Board of Studies in Electronics and Telecommunication Engg.
Equivalent subjects of **M.E. (Digital Communication)** Part- I & II Pre- revised course to revised course of **M.E. (Digital Communication)** Part- I & II effective from Academic Year 2014-15

Sr.No	M.E (Digital Communications) Pre-revised (100- Marks Pattern)	Equivalent subject in M.E. (Digital Communication) revised course (80/20- Marks Pattern)
1.	Digital Modulation & Spectrum System	Advanced Digital Communication (Note: Some Chapters are Common)
2.	Advanced Digital Signal Processing	Advanced Digital Signal Processing
3.	RF MEMS	RF MEMS
4.	Telecommunication Switching System	Elective-I: Telecommunication Switching System
5.	Elective-I: Genetic Algorithm & Applications	Elective-I: Genetic Algorithm & Applications
6.	Elective-I: Mobile & Personal Comm.	Mobile & Personal Comm.
7.	Digital Signal Compression	Digital Signal Compression
8.	Advanced Radiating System	Advanced Radiating System
9.	Wireless Communication Network	Elective-II: Wireless Communication Network
10.	Microwave Integrated Circuits	Elective-II: Microwave Integrated Circuits
11.	Elective-II: Simulation of Comm. Sys. & Net.	Elective-II: Simulation of Comm. Sys. & Net.
12.	Elective-II: Detection and Estimation Theory	_____)) _____
13.	Elective-II: Communication Network Security	_____)) _____


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BOS [EC/ECT]

ME Subject Equivalence

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

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Board of Studies in Civil Engineering

Equivalent subjects of M.E. (Comp. Sci. Engg.) Part- I & II Pre- revised course to revised course of M.E. (Comp. Sci. Engg.) Part- I & II effective from Academic Year 2014-15

Sr.No	M.E (Comp. Sci. Engg.) Pre- revised (100- Marks Pattern)	Equivalent subject in M.E. (Comp. Sci. Engg.) revised course (80/20- Marks Pattern)
1.	Advanced Operating System	Internal of OS
2.	Image Processing	Computer vision
3.	Advanced Database Management System	Advanced Database management system
4.	Advanced Algorithms	Advanced Algorithm
5.	Elective-I: Advanced Computer Architecture	Advanced Computer Architecture
6.	Elective-I: Knowledge Based Computer Sys.	Remote Sensing
7.	Elective-I: Embedded System Design	Real time System
8.	Knowledge Discovery Techniques	Data mining & Big Data
9.	Soft Computing	Machine Learning
10.	Pattern Recognition	Performance analysis and simulation
11.	Advanced Computer Networks	Computer Network & protocol Design
12.	Elective-II: High Performance Computing	wireless communication & mobile computing
13.	Elective-II: Object Oriented System Design	object orienteal System and Design
14.	Elective-II: Advanced Compiler Technique	Information security


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BOS [CSE]

ME Subject Equivalence

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

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Board of Studies in Civil Engineering
Equivalent subjects of M.E. (Software Engineering) Part- I & II Pre- revised course to revised course of M.E. (Software Engineering) Part- I & II effective from Academic Year 2014-15

Sr.No	M.E (Software Engineering) Pre- revised (100- Marks Pattern)	Equivalent subject in M.E. (Software Engineering) revised course (80/20- Marks Pattern)
1.	Probability & Optimization Technique	performance Analysis and Simulation (MCE 753)
2.	Software Project Management	System Analysis & Design (MSW 6)
3.	Software Requirements & Estimation	Smart phone programming (MSW 641)
4.	Advanced Software Architecture	Advanced Software Archi. (MSW 752)
5.	Elective-I: System Software Design	Advanced Algorithm (CSCI 201) (computersci. & Information Technology)
6.	Elective-I: Software Agents	Real Time systems (MCE 642)
7.	Elective-I: Advanced Computer Network	Computer Network protocol Design (MCE 604)
8.	Data Engineering & Management	Business Intelligence (MSW 603)
9.	Object Oriented Software Engineering	object oriented System & Design (MCE 791)
10.	Software Quality Management	Advanced computer Architecture (MCE 661)
11.	Software Testing	Software Reliability (MSW 7)
12.	Elective-II: Fault Tolerant Systems	Information security (MCE 793)
13.	Elective-II: Information Security	Information Security (MCE 793)
14.	Elective-II: Usability Engineering	computer vision (MCE 752)

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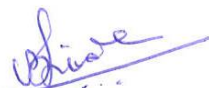
ME Subject Equivalence

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD. (18)

Board of Studies in Civil Engineering

Equivalent subjects of M.E. (Comp. Net. Engg.) Part- I & II Pre- revised course to revised course of M.E. (Comp. Net. Engg.) Part- I & II effective from Academic Year 2014-15

Sr.No	M.E (Comp. Net. Engg.) Pre- revised (100- Marks Pattern)	Equivalent subject in M.E. (Comp. Net. Engg.) revised course (80/20- Marks Pattern)
1.	Advanced Digital Communication	Advanced Digital communication
2.	Advanced Operating System	Advanced Operating System
3.	Advanced Computer Networks	Advanced Computer Networks
4.	Unix Network Programming	Unix Network Programming
5.	Elective-I: Advanced Problem Solving	Advanced Problem Solving
6.	Elective-I: Grid Computing	Grid Computing
7.	Elective-I: Network Processor	Network Processor
8.	Distributed Data Bases	Distributed Data Bases
9.	Information & Network Security	Information & Network Security
10.	Network Routing Algorithms	Network Routing Algorithms
11.	Soft Computing	Soft Computing
12.	Elective-II: Discrete-Event Sys. Simulation	Discrete event system simulation
13.	Elective-II: Storage Area Network	Storage Area Network
14.	Elective-II: Graph Theory	Graph Theory


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BOS [CSE]

ME Subject Equivalence

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Board of Studies in Civil Engineering

Equivalent subjects of M.E. (Control System Engg.) Part- I & II Pre- revised course to revised course of M.E. (Control System Engg.) Part- I & II effective from Academic Year 2014-15

Sr.No	M.E (Control System Engg.) Pre- revised (100- Marks Pattern)	Equivalent subject in M.E. (Control System Engg.) revised course (80/20- Marks Pattern)
1.	Advanced Control Theory	1. Advanced control Theory
2.	Advanced Process Control	2. Advanced Process Control
3.	Advanced Digital Processing Systems	3. Advanced Digital Processing systems
4.	Intelligent Control Systems	4. Intelligent control systems
5.	Elective-I: Advanced Drives & Controls	5. Advanced Drives & Controls EL-I
6.	Elective-I: Digital Image Processing	6. Digital Image Processing
7.	Non-linear Control Theory	7. Nonlinear Control Theory
8.	Advance Digital Control System	8. Advanced Digital Control System
9.	System Identification & Adaptive Control	9. system identification of Adaptive Control.
10.	Optimal Control System	10. optimal Control System
11.	Elective-II: Intelligent Instrumentation	11. EI-II: Intelligent Instrumentation
12.	Elective-II: Robust Control System	12. EI-II: Robust Control System



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BOS [Instrumentation]

(20)

ME Subject Equivalence

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

Board of Studies in Civil Engineering

Equivalent subjects of M.E. (Electrical Power Sys.) Part- I & II Pre- revised course to revised course of M.E. (Electrical Power Sys.) Part- I & II effective from Academic Year 2014-15

Sr.No	M.E (Electrical Power Sys.) Pre- revised (100- Marks Pattern)	Equivalent subject in M.E. (Electrical Power Sys.) revised course (80/20- Marks Pattern)
1.	Electrical Machine Analysis & Modeling	Electrical machine analysis & modelling
2.	Power System Planning & Economic Oper.	Power system planning & economic operation
3.	Computer Aided Power System	computer aided power system
4.	Power System Dynamics & Stability	power system dynamics & stability
5.	Elective-I: Modern Electric Drives	modern electric drives
6.	Elective-I: Energy Audit & Conservation	Energy Audit & Conservation
7.	Elective-I: Extra High Voltage Transmission	Extra high voltage transmission
8.	Advanced Power Electronics	Advanced power electronics
9.	Digital Protection of Power System	Digital protection of power system
10.	HVDC Transmission	H.V.D.C. transmission
11.	Flexible AC Transmission	Flexible AC transmission
12.	Elective-II: Power System Design	power system design
13.	Elective-II: Special Topics in Power System	special topics in power system
14.	Elective-II: Optimization Techniques	Optimization Techniques


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BOS [EEP]

ME Subject Equivalence

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

Board of Studies in Civil Engineering

Equivalent subjects of M.E. (Biotechnology) Part- I & II Pre- revised course to revised course of M.E. (Biotechnology) Part- I & II effective from

Academic Year 2014-15

Sr.No	M.E (Biotechnology) Pre- revised (100- Marks Pattern)	Equivalent subject in M.E. (Biotechnology) revised course (80/20- Marks Pattern)
1.	Molecular Cell Biology [MCB]	Molecular Cell Biology [MCB]
2.	Biological Engineering	Biological Engineering
3.	Bioinformatics & Research Methodology	Bioinformatics & Research methodology
4.	Biomaterial Science	Biomaterial Science
5.	Bioreactor Design Operation & Control	Bioreactor Design operation and control
6.	Genetic Engineering & Bioinformatics	Genetic Engineering and Bioinformatics
7.	Advances in Biological Engineering	Advances in Biological Engineering
8.	Protein Cell & Tissue Engineering	Protein, cell and Tissue Engineering
9.	Synthetic Biology Design & Engg.-I	synthetic Biology Design & Engineering I
10.	Upstream & Down Stream Processing	upstream and downstream Processing


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BOS [Biotechnology]

Dr. S. D. Saptarshi

MCA Subject Equivalence

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

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Board of Studies in MCA CSE/IT
Equivalent subjects of MCA First Year Part- I & II Pre- revised course to
revised course of MCA First Year Part- I & II effective from
Academic Year 2014-15

Sr.No	MCA First Year Pre- revised (100- Marks Pattern)	Equivalent subject in MCA First Year revised course (80/20- Marks Pattern)
1.	Programming In "C"	Object oriented programming Using C++
2.	Computer Architecture	Computer Organisation
3.	Mathematics	Numerical Methods and Statistical Techs.
4.	Computer Graphics	Operating System
5.	Behavioral Sci. Organization	Principles of Programming Languages
6.	Data Structures	Data structures using C++
7.	Discrete Mathematical Structure	Discrete Mathematical Structures
8.	Object Oriented Programming	Code Java.
9.	Accounts & Financial Management	Accounts & Financial Management



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BOS [CSE/IT]

MCA Subject Equivalence

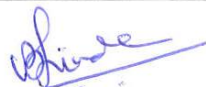
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Board of Studies in MCA CSE/IT

Equivalent subjects of **MCA Second Year Part- I & II** Pre- revised course to revised course of **MCA Second Year Part- I & II** effective from Academic Year 2014-15

Sr.No	MCA Second Year Pre- revised (100- Marks Pattern)	Equivalent subject in MCA Second Year revised course (80/20- Marks Pattern)
1.	Programming In Java	Advance Java Programming (J2EE)
2.	Database Management System	System Programming and operating system
3.	Operating System	Relational Database Management System
4.	Software Engineering	Software Engineering -I
5.	Design & Analysis of Algorithm	Design and Analysis of Algorithm.
6.	Computer Network	Computer Networks.
7.	Linux Operating System	Software Engineering -II
8.	Data Warehousing & Data Mining	Data Warehousing & Data Mining.


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