

S-22 Nov. 2011 AC after Circulars from Circular No.47 & onwards - 61 -

**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY**

**CIRCULAR NO. ACAD/NP/B.E./Equivalence/72/2012**

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 B.E. Final Year Course for all branches 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.

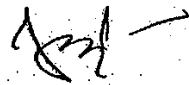
This is effective from the May/June-2012 and onwards Examination.

All concerned are requested to note the contents of this circular for their information and necessary action.

University Campus,  
Aurangabad-431 004.  
REF.NO. ACAD/NP/BE EQV./  
2012/6403-27

Date:- 21-05-2012.

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**Director,**  
**Board of College and**  
**University Development.**

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**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 Record Keeper,  
Dr. Babasaheb Ambedkar Marathwada University.

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J-[F] NPW-02 Engineering -02 [Misliness] All Correspondance-01

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Engg Equivalence B

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

## B.E. Civil (Old) Equivalence List

Sr. No.	Subject	Equivalence to be given as per Revised Course
01.	Environmental Engg.-II	Environmental Engg. -II
02.	Water Resource Engg.-II	Water Resource Engg.-II
03.	Design of Structure-III	Design of Structure -III
04.	Foundation Engg.	Foundations Engineering
05.	Comp. Appl. in Civil Engg. [BI-I]	Comp. Appl. in Civil Engg. (EI-I)
06.	Advanced Geo-Tech. Engg. [BI-I]	---
07.	Prestressed Concrete [BI-I]	pre-stressed concrete (BI-I)
08.	Design of Water Works [BI-I]	---
09.	Town Planning [BI-I]	Town planning [EI-I]
10.	Structural Mechanics	Structural mechanics
11.	Transportation Engg.-II	Transportation Engg. -II
12.	Construction Mgt	Construction management
13.	Water Resource System & Mgt. [BI-II]	---
14.	Industrial Pollution Control [BI-II]	Industrial Waste Treatment (BI-II)
15.	Advanced Structures [BI-II]	Advanced Structures (BI-II)
16.	Earthquake Engg. [BI-II]	Earthquake Engg. (EI-II)
17.	Pavement Design [BI-II]	Pavement Engg. (EI-II)

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## B.E. Mechanical (Old) Equivalence List

Sr. No.	Subject	Equivalence to be given as per Revised Course
01.	Refrigeration & Air Conditioning	Refrigeration & Air Conditioning
02.	Automobile Engg. ✓	Automobile Engineering
03.	Mechatronics-II	EDP & Industrial Economics (E14)
04.	Tool Design	Robotics and Industrial Applications
05.	Operation Research (E1-1)	Operations Research
06.	Energy System (E1-1)	Energy Conservation and Management (E14)
07.	Advanced Material Manufacturing Techniques (E1-1) (E1-1)	Advanced Material & Manufacturing Techniques (E14)
08.	Computer Aided Engg. (E1-1)	Power Plant Engineering (E1-1)
09.	Internal Combustion Engg. & Turbine	IC Engines and Turbines
10.	Automatic Control System ✓	Automatic Control Systems
11.	Production Mgt.	Quality Engg. & Ind. Management
12.	Simulation & Mathematical Mgt. (E1-1)	Simulation and Mathematical Modeling (E1-1)
13.	Machin. Tool Design (E1-1)	Machin. Tool Design (E1-1)
14.	Vibration & Noise Control (E1-1)	Computational Fluid Dynamics (CFD) (E1-1)
15.	Process Equipment Design (E1-1)	Material Science (E1-1)

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## B.E. Production (CH) Equivalence List

Sr. No.	Subject	Equivalence to be given as per Revised Course
01.	Theory of Metal Forming	Theory of Metal Forming
02.	Production Planning & Control	Production Planning & Control
03.	Machine Tool Technology	Machine Tool Technology
04.	Tool Engineering	Robotics and Industrial Applications
05.	Mechatronics-II [EI-I]	Mechatronics-II [EI-I]
06.	Manufacturing System [EI-I]	Manufacturing System [EI-I]
07.	Automatic Control System	Automatic Control System
08.	Operations Research	Operations Research
09.	Industrial Engineering	Industrial Engineering
10.	Simulation & Mathematical Modeling [EI-II]	Simulation & Mathematical Modeling [EI-II]
11.	Costing & Financial Mgt. [EI-II]	Costing & Financial Mgt. [EI-II]
12.	Design of Experimentation [EI-II]	Design of Experimentation [EI-II]
13.	Non Conventional Machine Process [EI-II]	Non Conventional Machine Process [EI-II]

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## B.E. EC/ECT/IE &amp; E&amp;C [Old] Equivalence List

Sr. No.	Subject	Equivalence to be given as per Revised Course
01.	Embedded System [EC/ECT/IE & E&C] ✓	Embedded System
02.	Microwave & Radar Engg. [ECT/E&C] [EI-IE/IE] ✓	Optical Microwave Communication
03.	Advanced Power Electronics Design [IE]	Advanced Power Electronics (EC/IE)EI-I
04.	Computer Network [EC] ✓	Computer Network
05.	Electronics Measurement [EC/ECT/IE & E&C] ✓	Voice Network
06.	Communication Network [ECT] ✓	Computer Network
07.	VLSI Design [BC/ECT & E&C]	VLSI Design
08.	Digital Comp. Control [IE]	Advanced Digital Signal Processing [EC/IE]
09.	Medical Electronics [IE] [EI-I]	System Programming [EC/IE] [EI-I]
10.	Advanced Comp. Arch. [BC/ECT/IE] [EI-I]	System Simulation & Analysis [EC/IE] [EI-I]
11.	Advanced Power Electronics [ECT] [EI-I]	Advanced Power Electronics [EC/IE] [EI-I]
12.	LT. Application [EC/ECT/IE] [EI-I]	Network Security [ECT] [EI-I]
13.	Optical Fiber Communication ✓ [EC/ECT/E&C]	Radar & Satellite Communication
14.	Computer Aided Design in Power Electronics [IE]	Advanced Power Electronics [EC/IE] [EI-I]
15.	Digital Signal Image Processing [EC] ✓	Digital Image Processing [EC/IE]
16.	Mobile Communication [ECT/E&C] ✓ [EI-II EC/IE]	Mobile Computing [EC/IE][EI-II]
17.	Consumer Electronics [EC/IE]	Digital Image Processing [EC/IE]

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Sr. No.	Subject	Equivalence to be given as per Revised Course
18.	Medical Electronics [EC] [EI-II]	System Programming [EC/IE] [EL-2]
19.	Artificial Intelligence [BC] [EI-II]	Artificial Intelligence [ECT] [EI-2]
20.	Mechatronics [EC] [EI-II]	Network Security [EC/IE] [EL-2]
21.	Network Security [ECT] [EI-II]	Network Security [EC/IE] [EL-2]
22.	Modern Electronics System [ECT] [EI-II]	Advanced Digital Signal Processing [EC/IE] [EL-2]
23.	System Software [ECT] [EI-II]	System Programming [EC/IE] [EL-2]
24.	Communication System [ECT] [EI-II]	Audio & Video Engineering [ECT]
25.	Agri. Electronics [IE] [EI-II]	Network Security [EC/IE] [EL-2]
26.	Bio-Informatics Computing [IE] [EI-II]	System Programming [EC/IE] [EL-2]
27.	Robotics [IE] [EI-II]	Robotics [EC/IE]
28.	Comp. Communication Network [E&C]	Computer Network [EC/ECT]
29.	VLSI Design [EI-I E&C]	VLSI Design [ECT/EC/IE]
30.	Advanced Digital Signal Processing [EI-I E&C]	Advanced Digital Signal Processing [E&C] [EL-2]
31.	Audio & Video Engg. [EI-I E&C]	Audio & Video Engg. [EC/IE] [EI-I]
32.	Digital Image Processing [E&C]	Digital Image Processing [E&C] [EI-I]
33.	Advanced Communication System [EI-II E&C]	Wireless Communication & Network [E&C]
34.	Artificial Neural Networks [EI-II E&C]	Artificial Neural Network [ECT] [EL-1]
35.	Bio-Medical Engg. [EI-II E&C]	Information Security [E&C] [EL-1]

  
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**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.****B.E. CSE/IT [Old] Equivalence List**

Sr. No.	Subject	Equivalence to be given as per Revised Course
01.	Linux Operating System [CSE/IT]	Advanced Java
02.	Software Testing & Quality Assurance [CSE/IT]	Object Oriented Analysis and Design (EI- I)
03.	Artificial Intelligence	Soft Computing
04.	Professional Ethics & Cyber Law [CSE/IT]	Professional Ethics & Cyber Security
05.	Mobile Computing [CSE/IT] [EI-I]	Mobile Computing
06.	Human Comp. Interaction [CSE/IT] [EI-I]	Advanced DBMS
07.	Bio-Informatics [CSE/IT] [EI-I]	Bioinformatics
08.	Principals of Compiler Design [EI-I]	Principles of Compiler Design
09.	Artificial Neural Network	Advanced Algorithms
10.	Data Mining & Ware Housing [CSE/IT]	Data Warehousing & Data Mining
11.	Network Security	Mainframe (EI-I)
12.	Multimedia Computing [CSE/IT] [EI-II]	Multimedia Systems [EI-II]
13.	Distributed Operating System [CSE/IT] [EI-II]	Enterprise Information Systems
14.	Client Server Computing [EI-II]	Enterprise Information Systems
15.	Robotics [EI-II]	Enterprise Information Systems

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Engg Equivalence B

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## B.E. EEP [Old] Equivalence List

Sr. No.	Subject	Equivalence to be given as per Revised Course
01.	Power Electronics ✓	Electrical Power Quality
02.	Power System Dynamics	Power System Dynamics & Stability
03.	Switchgear & Protection	Power System Protection
04.	Micro Controller Application	Micro-Controller Application
05.	EHV AC Transmission [EI-I]	High Voltage Engineering [EI-I]
06.	HVDC Transmission [EI-I]	High Voltage Engineering [EI-I]
07.	Advanced Control System [EI-I]	Renewable Energy Sources [EI-I]
08.	Digital Image Processing [EI-I]	Industrial Automation [EI-I]
09.	AC&DC Drives	Electrical Drives
10.	Electrical Machine Design ✓	Power System Operation & Control
11.	Electric Traction & Utilization ✓	BHVAC & DC Transmission
12.	Advanced Switchgear Practices [EI-II]	Electrical System Planning & Design [EI-II]
13.	Advanced Protective Relaying [EI-II]	Digital Image Processing [EI-II]
14.	System Operation & Load Dispatch [EI-II]	Flexible AC Transmission System [EI-II]

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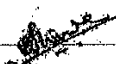
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Submitted,

Date: 07/02/2012

Following are the details of Equivalent subject of B.E.(Instrumentation) Revised & Old.

B.E.(INST)			
Part-I			
Sr.No.	Revised Subject	Sr.No.	Old Subject
01.	Control System Design	01.	Modern Control theory
02.	Process Modelling & Optimization	02.	Process Instrumentation
03.	Biomedical Instrumentation	03.	Distributed Control System
04.	Neural & Fuzzy Control System	04.	Digital Communication
05.	Elective-I 1. Advanced Digital Signal Processing 2. Agent Instrumentation 3. VLSI Design	05.	Elective-I 1. Computer Aided Manufacturing 2. Neural & Fuzzy Based System 3. Computers in Medical Systems
Part-II			
06.	Digital Control	06.	Digital Control System
07.	Computer Networking	07.	Project Management
08.	Project Engg. & Management	08.	Process Modeling & Simulation
09.	Elective-II 1. Digital Image Processing 2. Optical Instrumentation 3. System Identification	09.	Elective-II 1. Embedded Systems 2. Optical Instrumentation 3. Industrial Pollution Control

  
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To,  
Incharge,  
Engg. Section  
Dr.B.A.M.U.Aurangabad.

  
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Engg Equivalence B

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B.E. Chemical (Old) Equivalence List

Sr. No.	Subject	Equivalence to be given as per Revised Course
01.	Chemical Reaction Engg.-II	Chemical Reaction Engineering-II (Semester-II)
02.	Process Modeling & Simulation	Process Modeling and Simulation (Semester-II)
03.	Chemical Engg. Thermodynamics	Chemical Engineering Thermodynamics I.E. Chemical (Revd) Semester-II
04.	Plant Design & Project Engg.	Process Engineering and Economics, I.E. Chemical (Revd), Semester-II
05.	Advanced Method of Separation [EI-I]	Advanced Separation Processes [EI-II] (Semester-III)
06.	Industrial Piping [EI-I]	Industrial Piping [EI-I] (Semester-I)
07.	Energy Mgt. [EI-I]	Energy Engineering [EI-I] (Semester-II)
08.	Petro Chemical Engg. [EI-I]	Petro Chemical Engineering [EI-II] (Semester-I)
09.	Transport Phenomena	Transport Phenomena (Semester-II)
10.	Industrial Pollution Control	Industrial Pollution and Control (Semester-III)
11.	Material Technology	- No equivalent subject in Revised Course
12.	Food Technology [EI-II]	Food Technology [EI-II] (Semester-II)
13.	Bio Chemical Engg. [EI-II]	Biotechnological Engineering (Semester-II)
14.	Optimization in Chemical Engg. [EI-II]	Optimization in Chemical Engineering [EI-II] (Semester-II)
15.	Polymer Science & Engg. [EI-II]	Polymer Science and Engineering [EI-II] (Semester-II)

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**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.****B.E. I.T. [Old] Equivalence List**

<b>Sr. No.</b>	<b>Subject</b>	<b>Equivalence to be given as per Revised Course</b>
01.	Geographical Information System	Geographical Information System
02.	Embedded System [EI-I]	Embedded System [EI-I]
03.	Digital Image Processing	Web Information Systems
04.	Unix Network Programming [EI-II]	Business Processes
05.	Professional Ethics & Cyber Law [EI-II]	Professional Ethics and Cyber Security

  
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