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Marathwada University
Aurangabad – 431 004, Maharashtra,
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स्थापना वर्ष : १९५८

डॉ. बाबासाहेब आंबेडकर
मराठवाडा विद्यापीठ
औरंगाबाद- 431 004, महाराष्ट्र, भारत

नॅक समितीतर्फे 'अ' दर्जा प्राप्त

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कार्यालय :: अभ्यासक्रम विभाग ::

संदर्भ क्र. /अभ्यासक्रम विभाग/अभियांत्रिकी/2022-24

दिनांक :- २९.०६.२०२२.

२२

प्रति,
मा.संचालक,
परीक्षा व मूल्यमापन मंडळ,
राजर्षी शाहू महाराज परीक्षा भवन,
विद्यापीठ प्रांगण,
औरंगाबाद - ४३१००४.

विषय:-विविध अभियांत्रिकी अभ्यासक्रमांच्या Equivalence Subjects समतुल्य विषयांबाबत.
संदर्भ :-परीक्षा/अभियांत्रिकी कक्ष/२०२२ दिनांक २९.०४.२०२२/०५.०५.२०२२ रोजीचे पत्र.

महोदय,

उपरोक्त संदर्भीय विषयाच्या अनुषंगाने मा.कुलगुरु महोदय यांच्या आदेशान्वये आपणास कळविण्यात येते की, अध्यादेश-९९ नुसार विविध अभियांत्रिकी व औषधनिर्माणशास्त्र व आर्किटेक्चर अभ्यासक्रमाचे बी.ई., बी.टेक. बी.फार्मसी, बी.आर्किटेक्चर प्रथम, द्वितीय व तृतीय, चतुर्थ वर्ष आणि एम.सी.ए.(अभियांत्रिकी) प्रथम, द्वितीय व तृतीय वर्षाच्या (yearly pattern 80/20 old course) या जुन्या अभ्यासक्रमाकरिता सदरील नविन अभ्यासक्रमास (new course as per CBC&GS 80/20 pattern) सोबत जोडलेल्या त्या-त्या अभ्यासक्रमाच्या यादीनुसार समकक्ष विषयास मान्यता दिलेली असून त्यानुसार पुढील योग्य त्या कार्यवाहीस्तव आपल्या विभागाकडे पाठविण्यात येत आहे.

२९/०६/२०२२
उपकुलसचिव
शैक्षणिक विभाग

या पत्राची एक प्रत :-

१.उपकुलसचिव, अभियांत्रिकी कक्ष, राजर्षी शाहू महाराज परीक्षा विभाग, डॉ.बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद.

२.प्राचार्य/संचालक, सर्व संलग्नीत अभियांत्रिकी व तंत्रज्ञान महाविद्यालये.

उपकुलसचिव
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AURANGABAD – 431 004. (Maharashtra (India))

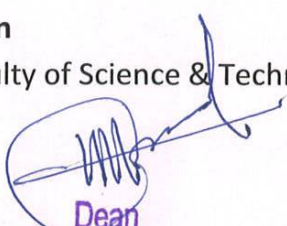
Equivalence for the subject of First Year B.Tech.

(Common to All Branches) (2011-12)

Sr. No.	Subject for Revised Course Academic Year 2011-2012	Equivalence for the subject Choice Based Credit and Grading System Academic Year 2016-2017
SEMESTER-I		
1.	Engineering Mathematics-I	Engineering Mathematics-I BSH101
2.	Engineering Physics	Engineering Physics BSH102
3.	Basic Electrical Engineering	Basic Electrical Engineering BSH104
4.	Engineering Drawing	Engineering Drawing BSH105
5.	Computer Fundamental & Programming	Computer Fundamentals & Programming BSH106
6.	Basic Civil Engineering	Basic Civil Engineering BSH107
SEMESTER-II		
1.	Engineering Mathematics-II	Engineering Mathematics-II BSH151
2.	Engineering Chemistry	Engineering Chemistry BSH103
3.	Basic Electronic	Basic Electronics BSH152
4.	Engineering Mechanics	Engineering Mechanics BSH153
5.	Basic Mechanical Engineering	Fundamentals of Mechanical Engineering BSH 154
6.	Environment & Ecology	Environment & Ecology BSH155

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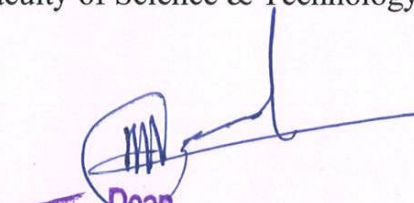
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Equivalence for the subject of S.Y.B.Tech. 2012-2013
(Mechanical/Production)

Sr.No.	Subject for Revised Course Academic Year 2012-2013	Equivalence for the subject Choice Based Credit and Grading System Academic Year 2016-2017
SEMESTER-III		
1.	MED 202 Fluid Mechanicsm CR-04	MED203 Fluid Mechanicsm CR-04
2.	MED203 Strength of Materials CR-04	MED202 Strength of Materials CR-04
3.	MED204 Machine Drawing CR-04	MED 252 Machine Drawin (Part-II) CR-04
4.	MED205Manufacturing Processes–I CR-4	MED204 Manufacturing Processes –I CR-4
5.	MED206Engineering Thermodynamics CR-02	MED206 Engineering Thermodynamics CR-02
SEMESTER-IV		
1.	MED252 Applied Thermodynamics CR-4	MED254 Applied Thermodynamics CR-4
2.	MED253 Theory of Machines-I CR-4	MED291 Alternative Energy Sources [EI-II] CR-4
3.	MED254Metrology& Mechanical Measurement CR-4	MED205 Metrology & Quality Control CR-4
4.	MED255 Manufacturing Processes-II CR-4	MED253 ManufacturingProcesses-II CR-4
5.	MED256 Electrical Technology CR-02	MED255 Electrical Technology CR-02

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Equivalence for the subject of T.Y. B.Tech.

Mechanical Engineering (2013-2014)

Sr.No.	Subject for Revised Course Academic Year 2013-2014	Equivalence for the subject Choice Based Credit and Grading System Academic Year 2016-2017
SEMESTER-V		
1.	MED301 Design of Machine Elements-I CR4	MED301 Design of Machine Elements-I CR4
2.	MED302 Theory of Machines-II CR4	MED305 Theory of Machines CR4
3.	MED303 CAD/CAM/CAE CR4	MED304 CAD/CAM/CAE MED CR4
4.	MED304 Production Management CR4	MED302 Production Management CR4
5.	MEDE305 I.C. Engine & Turbines CR4	MED353 I.C. Engine [Part-II] CR-4
6.	MED306 Industrial Management CR2	BSH306 Industrial Management CR04 *Downscale to Credit-02 for mapping credits
SEMESTER-VI		
1.	MED 351 Design of Machine Element-II CR4	MED351 Design of Machine Element-II CR4
2.	Med352 Fluid Mechanics & Machineries CR4	MED341 Turbo Machine [EI-II] CR-02 *Upscale to Credit-04 for mapping credits
3.	MED 353 Engineering Metallurgy CR4	MED352 Materials & Metallurgy CR-4
4.	MED354 Modern Management Technique CR4	MED381 Costing & Financial Management [Open EI-I] CR-04
5.	MED391 EI-I- Mechatronics CR4	MED342 Ele-II-Mechatronics CR02 *Upscale to Credit-04 for mapping credits
6.	MED392 Ele-I-Reliability & Maintenance Engg CR4	MED342 Ele-II-Mechatronics CR02 *Upscale to Credit-04 for mapping credits
7.	MED393 Ele-I- Mechanical Vibration CR4	MED342 Ele-II-Mechatronics CR02 *Upscale to Credit-04 for mapping credits
8.	MED394 Ele-I-Introduction to Aircraft Industry & Aircraft System CR4	MED342 Ele-II-Mechatronics CR02 *Upscale to Credit-04 for mapping credit
9.	MED355 Computational Techniques CR02	MED355 Computational Techniques CR02

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Equivalence for the subject of T.Y. B.Tech.
Production Engineering (2013-2014)

Sr. No.	Subject for Revised Course Academic Year 2013-2014	Equivalence for the subject Choice Based Credit and Grading System Academic Year 2016-2017
SEMESTER-V		
1.	Design of Machine Elements-I	MED301 Design of Machine Elements-I CR4
2.	Theory of Machines-II	MED305 Theory of Machines CR4
3.	Hydraulic Machines & Heat Transfer	MED-303 Heat Transfer CR-4
4.	CAD/CAM/CIM	MED304 CAD/CAM/CAEMED CR4
5.	Process Planning & Statistical Process Control	MED302 Production Management CR4
6.	Industrial Management	BSH306 Industrial Management CR04 *Downscale to Credit-02 for mapping credit
SEMESTER-VI		
1.	Design of Machine Elements-II	MED351 Design of Machine Element-II CR4
2.	Engineering Metallurgy	MED352 Materials & Metallurgy CR-4
3.	Tool Design	MED341 Turbo Machine [EI-II] CR-02 *Upscale to Credit-04 for mapping credits
4.	Robotics and Automations	MED381 Costing & Financial Management [Open EI-I] CR-04
5.	Elective-I Non Conventional Machining Processes	MED342 Ele-II-Mechatronics CR02 *Upscale to Credit-04 for mapping credits
6.	Elective-I Supply Chain & Logistic Management	MED342 Ele-II-Mechatronics CR02 *Upscale to Credit-04 for mapping credits
7.	Elective-I Reliability & Maintenance Engineering	MED342 Ele-II-Mechatronics CR02 *Upscale to Credit-04 for mapping credits
8.	Computational Techniques	MED355 Computational Techniques CR02

Note: No students Exists for Last Three Examinations for the above Course.

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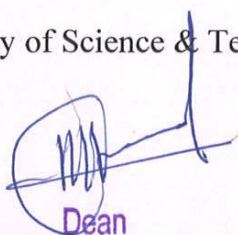
Equivalence for the subject of Final Year B.Tech.

Mechanical Engineering (2014-2015)

Sr. No.	Subject for Revised Course Academic Year 2014-2015	Equivalence for the subject Choice Based Credit and Grading System Academic Year 2016-2017
SEMESTER-VII		
1.	MED401 Refrigeration & Air Conditioning Cr-04	MED403 Refrigeration&Cryogenics CR-4
2.	MED402Automatic Control System Cr-04	MED402AutomaticControl System CR-4
3.	MED403 Heat Transfer Cr-04	MED441 OE-II AutomobileEngineering CR-4
4.	MED404 Tool Design Cr-04	MED 401 Tool Design CR-04
5.	MED 441 Ele-II- Project Management & Operation Research CR-4	MED 431 Open Ele-II-Operation Research CR-04
6.	MED442 Ele-II - Product Design CR-04	MED443 Ele-II- Composites Materials and Technology CR-04
7.	MED443 Ele-II- Composites Materials and Technology CR-04	MED443 Ele-II- Composites Materials and Technology CR-04
8.	MED444Ele-II- Finite Element Analysis CR-4	MED443 Ele-II- Composites Materials and Technology CR-04
SEMESTER-VIII		
1.	Inplant Training (IPT)	Inplant Training (IPT)

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Equivalence for the subject of Final Year B.Tech.

Production Engineering (2014-2015)

Sr. No.	Subject for Revised Course Academic Year 2014-2015	Equivalence for the subject Choice Based Credit and Grading System Academic Year 2016-2017
SEMESTER-VII		
1.	PED401 Automatic Control System CR-4	MED402 Automatic Control System CR-4
2.	PED402 Machine Tool Design CR-4	PED402 Machine Tool Design CR-4
3.	PED403 Theory of Metal Forming CR-4	PED403 Theory of Metal Forming CR-4
4.	PED404 Industrial Engineering CR-4	PED404 Industrial Engineering CR-4
5.	Ele-II- Project Management & Operation Research CR-4	MED 431 OpenEle-II- Operation Research CR-04
6.	Ele-II - Product Design CR-4	MED443 Ele-II- Composites Materials and Technology CR-04
7.	Ele-II- Finite Element Analysis CR-4	MED443 Ele-II- Composites Materials and Technology CR-04
8.	Ele-II- Composites Materials and Technology CR-4	MED443 Ele-II- Composites Materials and Technology CR-04
SEMESTER-VIII		
1.	Inplant Training (IPT)	Inplant Training (IPT)

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Equivalence for the subject of S.Y.B.Tech. 2012-2013
(Computer Science & Engineering)

Sr.No.	Subject for Revised Course Academic Year 2012-2013	Equivalence for the subject Choice Based Credit and Grading System Academic Year 2016-2017
SEMESTER-III		
1.	CSE202- Discrete Mathematics(4)	CSE202-Discrete Mathematics(4)
2.	CSE203- Digital Electronics & Microprocessor(4)	CSE203-Digital Electronics & Microprocessor(4)
3.	CSE204-C C + + Programming(4)	CSE205-Data Structures(4)
4.	CSE205- Object Oriented Programming in Java(4)	CSE204-Computer Graphics(4)
5.	CSE206-Computer Organization(2)	CSE206-Advanced C(2)
SEMESTER-IV		
1.	CSE252-Data Structure(4)	CSE253-Database Management System(4)
2.	CSE253-Programming in VB NET(4)	CSE252-Object Oriented Programming Paradigm(4)
3.	CSE254-Computer Hardware(4)	CSE254-Computer Organization(4)
4.	CSE255-Computer Network(4)	CSE291-Programme Elective-I : Multimedia Techniques(4)
5.	CSE256-Software Engineering(2)	CSE255-Web Programming(2)

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Sr. No.	Subject for Revised Course Academic Year 2013-2014	Equivalence for the subject Choice Based Credit and Grading System Academic Year 2016-2017
SEMESTER-V		
1.	CSE301-Theory of Computation(4)	CSE305-Theory of Computation(4)
2.	CSE302-Design and Analysis of Algorithms (4)	CSE304-Design and Analysis of Algorithms(4)
3.	CS303-Relational Database Management Systems(4)	CSE302-Software Engineering(4)
4.	CSE304-Operating Systems(4)	CSE301-Operating Systems(4)
5.	CSE305-Advanced JAVA(4)	CSE303-Programming in Java(4)
6.	CSE306-System Software(2)	CSE343-Department Elective II: System Software(2)
SEMESTER-VI		
1.	CSE351-Data Mining and Warehousing(4)	CSE355-Programming in .net *(2)
2.	CSE352-Digital Image Processing(4)	CSE352-Digital Image Processing(4)
3.	CSE353-Principles of Compiler Design (4)	CSE351-Principles of Compiler Design(4)
4.	CSE354-LINUX Operating System(4)	CSE352-Computer Network(4)
5.	CSE355-Professional Ethics and Cyber Security(2)	CSE381-Open Elective-I: Professional Ethics and Cyber Security **(4)
6.	CSE391-Ele-I-Object Oriented Analysis & Design(4)	CSE341-Department Elective II: User Interface Technology *(2)
7.	CSE392-Ele-I-Artificial Intelligence(4)	CSE342-Department Elective II: Fuzzy Control System *(2)
8.	CSE3393-Ele-I-Industrial Management(4)	BSH354-Industrial Management(4)

* Scale up

**Scale down

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AURANGABAD – 431 004. (Maharashtra (India))

Equivalence for the subject of Final Year B.Tech.

Computer and Science Engineering (2014-2015)

Sr. No.	Subject for Revised Course Academic Year 2014-2015	Equivalence for the subject Choice Based Credit and Grading System Academic Year 2016-2017
SEMESTER-VII		
1.	CSE401-Network Security(4)	CSE402-Cryptography and Network Security(4)
2.	CSE402-Software Testing and Quality Assurance(4)	CSE444-Elective IV: Software Testing *(2)
3.	CSE403-Mobile Application Development(4)	CSE445-Elective IV: Service Oriented Architecture and Web Services *(2)
4.	CSE404-Cloud Computing(4)	CSE441-Elective III: Cloud Technology(4)
5.	CSE441-Ele-II- Business Intelligence(4)	CSE403-Data Warehousing and Data Mining(4)
6.	CSE442-II- Introduction to Mainframe System(4)	CSE442-Elective III: Natural Language Processing(4)
7.	CSE443-Ele-II- Soft Computing(4)	CSE401-Artificial Neural Networks and Deep Learning(4)
8.	CSE444-Ele-II- Real Time Systems(4)	CSE431-Open Elective II: Big Data Analytics(4)
SEMESTER-VIII		
1.	CSE471-Inplant Training (IPT)(27)	CSE471-Inplant Training (IPT)(27)

* Scale up

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Equivalence for the subject of S.Y.B.Tech. 2012-2013

Agricultural Engineering

Sr.No	Subject for Revised Course Academic Year 2012-2013	Equivalence for the subject Choice Based Credit and Grading System Academic Year 2016-2017
SEMESTER-III		
1.	Crop. Production Technology (AED-202) (Credit-4)	Unit Operations in Agricultural Processing (AED-203) (Credit-4)
2.	Fluid Mechanics & Hydraulics (AED-203) (Credit-4)	Fluid Mechanics (AED-204) (Credit-4)
3.	Farm Power (AED-204) (Credit-4)	Tractor Systems and Controls (AED-202) (Credit-4)
4.	Heat Transfer & Refrigeration (AED-205) (Credit-4)	Agricultural Sciences (AED-205) (Credit-4)
5.	Surveying & Leveling (AED-206) (Credit-2)	Surveying and Leveling (AED-206) (Credit-2)
SEMESTER-IV		
1.	Renewable Energy Sources (AED-252) (Credit-4)	Precision Agriculture and Management (AED-293) (Credit-4)
2.	Soil Mechanics (AED-253) (Credit-4)	Soil Mechanics (AED-252) (Credit-4)
3.	Strength of Materials (AED-254) (Credit-4)	Mechanics of Structure (AED-253) (Credit-4)
4.	Farm Implements and Machinery (AED-255) (Credit-4)	Farm Machinery and Implements (AED-254) (Credit-4)
5.	Dairy Technology (AED-256) (Credit-2)	Post Harvest management and Technology (AED-255) (Credit-2)

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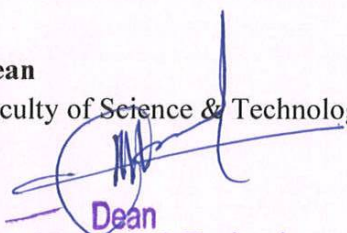
Equivalence for the subject of T.Y.B.Tech.

Agricultural Engineering (2013-2014)

Sr. No.	Subject for Revised Course Academic Year 2013-2014	Equivalence for the subject Choice Based Credit and Grading System Academic Year 2016-2017
SEMESTER-V		
1.	Watershed Hydrology & Management (AED-301) (Credit-4)	Watershed Hydrology and Management (AED-301) (Credit-4)
2.	Irrigation Engineering (AED-302) (Credit-4)	Irrigation and Drainage Engineering (AED-303) (Credit-4)
3.	Engineering Properties of Biological Materials (AED-303) (Credit-4)	Heat and Mass Transfer (AED-304) (Credit-4)
4.	Kinematics of Machines (AED-304) (Credit-4)	Theory of Machine (AED-302) (Credit-4)
5.	Crop. Process Engineering (AED-305) (Credit-4)	Renewable Energy Sources (AED-305) (Credit-4)
6.	Agricultural Structures (AED-306) (Credit-2)	Green House Technology (AED-341) (Credit-2)
SEMESTER-VI		
1.	Soil & Water Conservation Engineering (AED-351) (Credit-4)	Soil and Water Conservation Engineering-I (AED-351) (Credit-4)
2.	Drying and Storage Engineering (AED-352) (Credit-4)	Industrial Management (AED-354) (Credit-4)
3.	Food Engineering (AED-353) (Credit-4)	Food Quality and Sensory Evaluation (AED-355) (Credit-2)
4.	Machine Design (AED-354) (Credit-4)	Machine Design (AED-352) (Credit-4)
5.	Drainage Engineering (AED-355) (Credit-2)	Micro Irrigation System Design (AED-351) (Credit-4)
6.	Ele-I- Remote Sensing & GIS Application (AED-392) (Credit-4)	Open Elective –I Remote Sensing and GIS (AED-381) (Credit-4)

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Equivalence for the subject of Final Year B.Tech.

Agricultural Engineering (2014-2015)

Sr. No.	Subject for Revised Course Academic Year 2014-2015	Equivalence for the subject Choice Based Credit and Grading System Academic Year 2016-2017
SEMESTER-VII		
1.	Soil Conservation Structures Design (AED-401) (Credit-4)	Soil and water conservation engineering – II (AED-403) (Credit-4)
2.	Wells & Pumps (AED-402) (Credit-4)	Ground Water, Wells and Pumps (AED-401) (Credit-4)
3.	Micro Irrigation System Design (AED-403) (Credit-4)	Farm Power and Machinery management (AED-402) (Credit-4)
4.	Food Processing Plant Design (AED-401) (Credit-4)	Agricultural structures (AED-442) (Credit-4)
5.	Ele-II-Watershed Planning & Management (AED-441) (Credit-4)	Elective-IV Seed process Technology (AED-444) (Credit-4)
6.	Ele-II- Agricultural Economics & Farm Management (AED-442) (Credit-4)	Elective-IV Environmental Engineering (AED-445) (Credit-2)
7.	Ele-II- General Agricultural Engineering (AED-443) (Credit-4)	Elective-IV Agribusiness management and trends (AED-446) (Credit-2)
8.		Open Elective-II (Credit-4) Fundamentals of Bioenergy (AED 431)
SEMESTER-VIII		
1.	In plant Training (IPT) (AED-471) (Credit-27)	In plant Training (IPT) (AED-471) (Credit-24)

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Faculty of Science & Technology

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
AURANGABAD – 431 004. (Maharashtra (India))

Equivalence for the subject of S.Y.B.Tech.
Civil Engineering (2012-2013)

Sr.No.	Subject for Revised Course Academic Year 2012-2013	Equivalence for the subject Choice Based Credit and Grading System Academic Year 2016-2017
SEMESTER-III		
1.	Engineering Mathematics-III	Engineering Mathematics-III (BSH201)
2.	Surveying - I	Surveying - I (CED202)
3.	Fluid Mechanics-I	Fluid Mechanics-I (CED203)
4.	Strength of Materials	Strength of Materials (CED204)
5.	Building Construction and Drawing	Civil Engg Materials (CED205)
6.	Concrete Technology-I	Building Planning and Drawing –I (CED206)
SEMESTER-IV		
1.	Engineering Mathematics-IV	Engineering Mathematics-IV (BSH251)
2.	Surveying-II	Surveying-II (CED252)
3.	Fluid Mechanics-II	Fluid Mechanics-II (CED253)
4.	Building Planning and Design	Building Planning and Drawing -II (CED255)
5.	Theory of Structure-I	Theory of Structure-I (CED254)
6.	Concrete Technology-II	PE-I Advance Civil Engg Materials (CED291)


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Equivalence for the subject of T.Y. B.Tech.
Civil Engineering (2013-2014)

Sr. No.	Subject for Revised Course Academic Year 2013-2014	Equivalence for the subject Choice Based Credit and Grading System Academic Year 2016-2017
SEMESTER-V		
1.	Design of Steel Structure-I	Design of Steel Structure CED301
2.	Water Resources Engineering - I	Water Resources Engineering – I CED302
3.	Professional Practice	Environmental Engineering-I CED303
4.	Geotechnical Engineering	Geotechnical Engineering CED304
5.	Theory of Structure-II	Theory of Structure-II CED305
6.	Transportation Engineering-I	PE-II Transportation Engg CED341
SEMESTER-VI		
1.	Design of Structure-II	Design of RCC Structure CED351
2.	Foundation Engineering	Industrial Management BSH 354
3.	Environmental Engineering-I	Environmental Engineering-II CED352
4.	Water Resources Engineering - II	Water Resources Engineering - II CED353
5.	Ele-I- Prestressed Concrete	Open Elective-I Design for environment CED381
6.	Ele-I- Advanced Geotechnical Engineering	
7.	Ele-I-- Environmental Pollution and Control	
8.	Engineering Geology	Engineering Geology CED356

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AURANGABAD – 431 004. (Maharashtra (India))

Equivalence for the subject of Final Year B.Tech.
Civil Engineering (2014-2015)

Sr. No.	Subject for Revised Course Academic Year 2014-2015	Equivalence for the subject Choice Based Credit and Grading System Academic Year 2016-2017
SEMESTER-VII		
1.	Structural Mechanics	Foundation Engg CED401
2.	Environmental Engineering-II	OE-II Solid Waste Management CED431
3.	Project Planning & Management	Construction Management CED402
4.	Transportation Engineering-II	Highway Engg CED403
5.	Ele-II-Green Building Technology	ELE IV-Environment Impact Assessment CED445
6.	Ele-II- Economics Costing and Management	(Half subject:40 marks) *Note:This is 40 marks paper which can be scaled up for the equivalence
7.	Ele-II- Earthquake Engineering	EL-III-Advance structural analysis and design CED441
SEMESTER-VIII		
1.	Inplant Training (IPT)	Inplant Training (IPT) CED471

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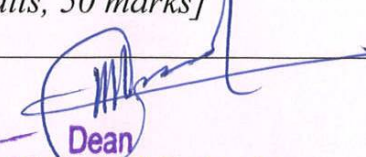
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DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
AURANGABAD – 431 004. Maharashtra (India)

Equivalence for the subject of S.Y.B.Tech. 2012-2013
(Plastics and Polymer Engineering)

Sr.No.	Subject for Revised Course Academic Year 2012-2013	Equivalence for the subject Choice Based Credit and Grading System Academic Year 2017-2018
SEMESTER-III		
1.	Materials Engineering (PPE202)	Materials Engineering (PPE205)
2.	Organic Chemistry (PPE203)	Organic Chemistry (PPE202)
3.	Mechanical Operation (PPE204) [4 credits, 100 marks]	Mechanical Operation (PPE206) [2 credits, 50 marks]
4.	Introduction to Polymer Engineering (PPE205)	Introduction to Polymer Engineering (PPE203)
5.	Polymer Testing (PPE206) [2 credits, 50 marks]	Polymer Testing (PPE204) [4 credits, 100 marks]
SEMESTER-IV		
1.	Process Calculation (PPE252)	Process Calculation (PPE252)
2.	Physical Chemistry of Polymers (PPE253)	Physical Chemistry of Polymers (PPE253)
3.	Fluid Mechanics (PPE254) [4 credits, 100 marks]	Fluid Mechanics (PPE255) [2 credits, 50 marks]
4.	Thermoplastics Resins (PPE255)	Polymer Synthesis and Manufacturing (PPE254)
5.	Additives of Polymers (PPE256) [2 credits, 50 marks]	El-I: Specialty Polymers (PPE291) [4 credits, 100 marks]


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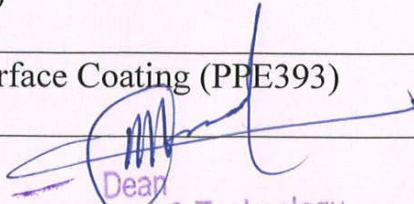
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DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY**AURANGABAD – 431 004. Maharashtra (India)****Equivalence for the subject of T.Y. B.Tech.****Plastics and Polymer Engineering (2013-2014)**

Sr. No.	Subject for Revised Course Academic Year 2013-2014	Equivalence for the subject Choice Based Credit and Grading System Academic Year 2018-2019
SEMESTER-V		
1.	Polymer Rheology & Morphology (PPE301)	Polymer Rheology and Morphology (PPE301)
2.	Thermosetting Resins (PPE302)	Polymeric Materials-I (PPE302)
3.	Heat Transfer (PPE303)	Heat Transfer (PPE303)
4.	Elastomer Technology (PPE304)	Elastomer Technology (PPE352)
5.	Economics & Management (PPE305)	Industrial Management (BSH304)
6.	Instrumentation & Process Control (PPE306)	El-II: Paint Technology (PPE341)
SEMESTER-VI		
1.	Polymer Processing Technology (PPE351)	Polymer Processing Technology (PPE351)
2.	Polymer Reaction Engineering (PPE352)	Instrumental Analysis of Polymers (PPE304)
3.	Mass Transfer (PPE353)	Mass Transfer (PPE353)
4.	Polymer Recycling & Waste Management (PPE354)	Polymer Additives and Compounding (PPE305)
5.	Specialty Polymers (PPE355)	Polymeric Materials-II (PPE354)
6.	Ele-I-Biopolymers (PPE391)	Open Elective-I: Introduction to Nanotechnology (PPE391)
7.	Ele-I-Plastic Packaging Technology (PPE392)	
8.	Ele-I- Surface Coating (PPE393)	

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AURANGABAD – 431 004. Maharashtra (India)

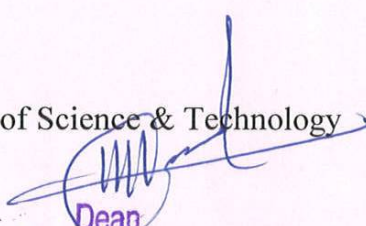
Equivalence for the subject of Final Year B.Tech.

Plastics and Polymer Engineering (2014-2015)

Sr. No.	Subject for Revised Course Academic Year 2014-2015	Equivalence for the subject Choice Based Credit and Grading System Academic Year 2019-2020
SEMESTER-VII		
1.	Mould & Product Design (PPE401)	Mould and Product Design (PPE401)
2.	Instrumental Analysis of Polymers (PPE402)	Polymer Blends and Composites (PPE402)
3.	Advanced Elastomer Technology (PPE403) <i>[4 credits, 100 marks]</i>	El-IV: Rubber Technology for Automotive Applications (PPE445) <i>[2 credits, 50 marks]</i>
4.	Process Engineering & Plant Design (PPE404)	Polymer Reaction Engineering and Plant Design (PPE403)
5.	Ele-II-Fiber Technology (PPE441)	Open Elective-II: Polymer Recycling and Waste Management (PPE431)
6.	Ele-II- Polymer Nanocomposites (PPE442)	
7.	Ele-II- Adhesive Science and Technology (PPE443)	
8.	Ele-II-Polymer Blends and Composites (PPE444)	
SEMESTER-VIII		
1.	Inplant Training (IPT) (PPE471)	Inplant Training (IPT) (PPE471)

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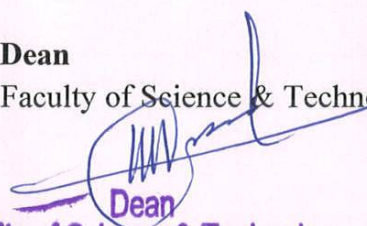
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DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
AURANGABAD – 431 004. (Maharashtra (India))

Equivalence for the subject of S.Y.B.Tech. 2012-2013
(Electronics & Telecommunication)

Sr.No.	Subject for Revised Course Academic Year 2012-2013	Equivalence for the subject Choice Based Credit and Grading System Academic Year 2016-2017
SEMESTER-III		
1.	Electronics Devices and Circuits	Electronics Devices and Circuit (ETC203)
2.	Networks & Lines	Networks & Lines(ETC202)
3.	Principles of Communication Engineering	Analog Communication(ETC204)
4.	Digital System Design	Digital Electronics(ETC205)
5.	Data Structure	Data Structures(ETC206)
SEMESTER-IV		
1.	Integrated Circuits and Application	High Spped Analog Devices(EC254)
2.	Communication Engineering	Professional elective-I Consumer Electronics (ETC293)
3.	Signals and Systems	Signals and Systems(ETC252)
4.	Power Devices and Machines	Power Devices and Machines (ETC253)
5.	Electromagnetic Engineering	Electromagnetic Engineering (ETC255)

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Equivalence for the subject of T.Y. B.Tech.

Electronics and Telecommunication Engineering (2013-2014)

Sr. No.	Subject for Revised Course Academic Year 2013-2014	Equivalence for the subject Choice Based Credit and Grading System Academic Year 2016-2017
SEMESTER-V		
1.	Control System	Control System (ETC305)
2.	Microprocessors & Peripherals	Microprocessors & Microcontroller(ETC301)
3.	Digital Communication	Digital Communication(ETC302)
4.	Electronic Circuit Design Technology	Electronic Circuit Design Technology(ETC303)
5.	Digital Signal Processing	Digital Signal Processing(ETC304)
6.	Microelectronics	ELECTIVE -II Microelectronics(ETC342)
SEMESTER-VI		
1.	Microcontroller & Embedded System	Embedded System Design(ETC351)
2.	Information Theory and Coding	Industrial Management(BSH 354)
3.	Antenna Theory	Microwave theory and techniques(ETC352)
4.	VLSI Design	VLSI Design(ETC353)
5.	Electronics Measurement	Digital Image Processing (ETC354)
6.	Ele-I-Radar & Satellite Communication	Open Elective- Internet of Things (ETC381)
7.	Ele-I-System Software and Operating System	Open Elective- Internet of Things (ETC381)
8.	Ele-I- Neural Network and Fuzzy Logic	Open Elective- Internet of Things (ETC381)

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AURANGABAD – 431 004. (Maharashtra (India))

Equivalence for the subject of Final Year B.Tech.

Electronics & Telecommunication Engineering (2014-2015)

Sr. No.	Subject for Revised Course Academic Year 2014-2015	Equivalence for the subject Choice Based Credit and Grading System Academic Year 2016-2017
SEMESTER-VII		
1.	Advanced Embedded System Design	Advanced Embedded System Design(ETC401)
2.	Microwave & Optical Communication	Antennas and Radiating Systems (ETC402)
3.	Computer Network and Security	Computer Network and Security(ETC403)
4.	Wireless and Mobile Communication	Elective-III Wireless and Mobile Communication (ETC443)
5.	Ele-II- Analogue VLSI Design	*Elective-IV Electronic Product Design (ETC444) *Note: Earlier in 2014-15 it was for 4 credit now it is for 2 credits so it is downscaled.
6.	Ele-II- Digital Image Processing	Elective-III Artificial Intelligence and Machine Learning (ETC442)
7.	Ele-II- Electronic Product Design	*Elective-IV Electronic Product Design (ETC444) *Note: Earlier in 2014-15 it was for 4 credit now it is for 2 credits so it is downscaled.
8.	Ele-II- Advanced Industrial Automation	Elective-III Artificial Intelligence and Machine Learning (ETC442)
SEMESTER-VIII		
1.	Inplant Training (IPT)	Inplant Training (IPT)(ETC471)

***Note: Earlier in 2014-15 it was for 4 credit now it is for 2 credits so it is downscaled.**

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