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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 :-

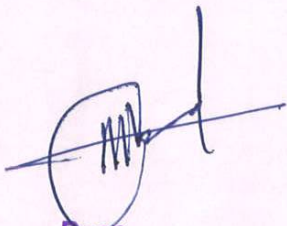
१.उपकुलसचिव, अभियांत्रिकी कक्ष, राजर्षी शाहू महाराज परीक्षा विभाग, डॉ.बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद.

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

उपकुलसचिव
शैक्षणिक विभाग

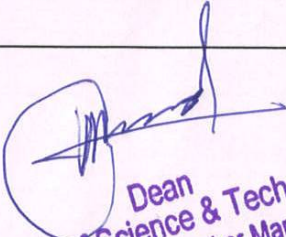
DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
Board of Studies in First Year Engineering
Equivalent Subjects of F.E. (First Year) Part I & II Pre- revised course to Revised course of
F.E. (First Year) Part I & II effective from Academic Year 2022-2023

F.E. (First Year) Pre-revised Course (80/20) - Marks Pattern				Equivalent Subject in F.E. (First Year) Revised Course (80/20 - CBC&GS Pattern)
F. E. (All)	[OLD]	I	Engineering Chemistry & Environmental Sci.	Engineering Physics/Engineering Chemistry and Environmental Science
F. E. (All)	[OLD]	I	Engineering Mathematics - I	Engineering Mathematics - I
F. E. (All)	[OLD]	I	Engineering Graphics	Engineering Graphics
F. E. (All)	[OLD]	I	Elements of Electrical Engineering	Basic Electrical Engineering
F. E. (All)	[OLD]	I	Elements of Civil Engineering	Basic Civil Engineering
F. E. (All)	[OLD]	II	Engineering Mathematics-II	Engineering Mathematics-II
F. E. (All)	[OLD]	II	Engineering Mechanics	Engineering Mechanics
F. E. (All)	[OLD]	II	Elements of Mechanical Engineering	Basic Mechanical Engineering
F. E. (All)	[OLD]	II	Elements of Electronics & Comp. Engg.	Basic Electronics Engineering
F. E. (All)	[OLD]	II	Engineering Physics	Engineering Physics/Engineering Chemistry and Environmental Science


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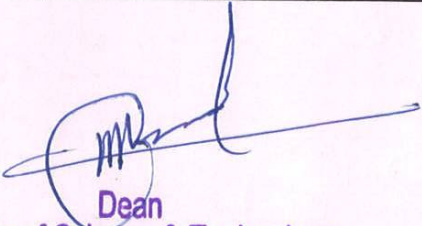

Sr. Faculty

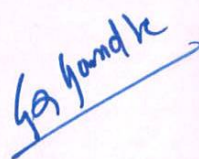
DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD Board of Studies in Second Year Engineering Equivalent Subjects of S.E. (Civil) Part I & II Pre- revised course to Revised course of S.E. (Civil) Part I & II effective from Academic Year 2022-2023				
S.E. (Civil) Pre-revised Course (80/20) - Marks Pattern				Equivalent Subject in S.E. (Civil) Revised Course (80/20 - CBC&GS Pattern)
S.E. (All Branches)	[OLD]	I	Engineering Mathematics - III	Engineering Mathematics-III
S.E. (Civil)	[OLD]	I	Strength of Materials	Strength of Materials
S.E. (Civil)	[OLD]	I	Fluid Mechanics-I	Fluid Mechanics-I
S.E. (Civil)	[OLD]	I	Surveying-I	Surveying-I
S.E. (Civil)	[OLD]	I	Concrete Technology	Concrete Technology
S.E. (All Branches)	[OLD]	II	Engineering Mathematics -IV	Engineering Mathematics -IV
S.E. (Civil)	[OLD]	II	Building Construction & Drawing	Building Construction & Drawing
S.E. (Civil)	[OLD]	II	Fluid Mechanics- II	Fluid Mechanics- II
S.E. (Civil)	[OLD]	II	Surveying - II	Surveying - II
S.E. (Civil)	[OLD]	II	Theory of Structure-I	Theory of Structure-I


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T.E. (Civil) Pre-revised Course (80/20) - Marks Pattern				Equivalent Subject in T.E. (Civil) Revised Course (80/20 - CBC&GS Pattern)
T.E. (Civil)	[OLD]	I	Design of Structure - I (Steel)	Design of Structure - I (Steel)
T.E. (Civil)	[OLD]	I	Engineering Geology	Engineering Geology
T.E. (Civil)	[OLD]	I	Building Planning & Design	Building Planning & Design
T.E. (Civil)	[OLD]	I	Transportation Engineering-I	Highway Engineering
T.E. (Civil)	[OLD]	I	Theory of Structure - II	Theory of Structure - II
T.E. (Civil)	[OLD]	I	Advanced Surveying	Highway Engineering
T.E. (Civil)	[OLD]	II	Environmental Engineering - I	Water Resource Engineering - I
T.E. (Civil)	[OLD]	II	Design of Structures - II (RCC)	Design of Structures - II (RCC)
T.E. (Civil)	[OLD]	II	Geotechnical Engineering	Geotechnical Engineering
T.E. (Civil)	[OLD]	II	Water Resource Engineering - I	Water Resource Engineering - I
T.E. (Civil)	[OLD]	II	Transportation Engg.- II	Professional Practice

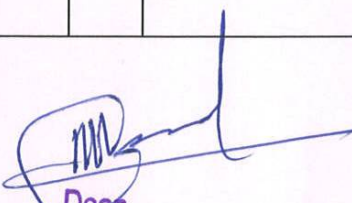

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DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
Board of Studies in Civil Engineering
Equivalent Subjects of B.E. (Civil) Part I & II Pre- revised course to Revised course of
B.E. (Civil) Part I & II effective from Academic Year 2022-2023

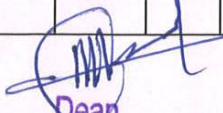
Sr. No.	B.E. (Civil) Pre-revised Course (80/20) - Marks Pattern				Equivalent Subject in B.E. (Civil) Revised Course (80/20 - CBC&GS Pattern)
1	B.E. (Civil)	[OLD]	I	Environmental Engineering-II	Environmental Engineering
2	B.E. (Civil)	[OLD]	I	Water Resources Engineering-II	Water Resources Engineering
3	B.E. (Civil)	[OLD]	I	Design of Structures- III	Design of Structure -III
4	B.E. (Civil)	[OLD]	I	Foundation Engineering	Foundation Engineering
5	B.E. (Civil)	[OLD]	I	Elective-I: Prestressed Concrete	Elective II - Prestressed Concrete
6	B.E. (Civil)	[OLD]	I	Elective-I: Town Planning	Elective II - Prestressed Concrete
7	B.E. (Civil)	[OLD]	I	Elective-I: Computer Applications in Civil Engg	Elective II - Ground water Engineering
8	B.E. (Civil)	[OLD]	I	Elective-I: Plumbing Engineering	Elective-II Plumbing Engineering
9	B.E. (Civil)	[OLD]	I	Elective-I: Ground Water Engineering	Elective II - Ground water Engineering
10	B.E. (Civil)	[OLD]	II	Structural Mechanics	Strcutral Mechanics
11	B.E. (Civil)	[OLD]	II	Construction Management	Constrction Management
12	B.E. (Civil)	[OLD]	II	Professional Practice	Transportation Engineering
13	B.E. (Civil)	[OLD]	II	Elective-II: Advanced Structures	Elective -III -Advanced Structure
14	B.E. (Civil)	[OLD]	II	Elective-II: Pavement Design	Elective-III - Pavement Design
15	B.E. (Civil)	[OLD]	II	Elective-II: Earthquake Engineering	Elective-III- Structural Dynamics and Earthquake Engineering
16	B.E. (Civil)	[OLD]	II	Elective-II: Industrial Waste Treatment	Elective-III- Industrial waste Treatment
17	B.E. (Civil)	[OLD]	II	Elective-II: Geographic Information Systems	Elective-III- Surface and Ground water Hydrology
18	B.E. (Civil/Mech/EE/ECT)	[OLD]	I	Elective-I: SAP Material Management - I	
19	B.E. (Civil/Mech/EE/ECT)	[OLD]	II	Elective-II: SAP Material Management - II	

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD Board of Studies in Second Year Engineering Equivalent Subjects of S.E. (Mech/Prod) Part I & II Pre- revised course to Revised course of S.E. (Mech/Prod) Part I & II effective from Academic Year 2022-2023				
S.E. (Mech/Prod) Pre-revised Course (80/20) - Marks Pattern				Equivalent Subject in S.E. (Mech/Prod) Revised Course (80/20 - CBC&GS Pattern)
S.E. (Mech/Prod)	[OLD]	II	Electrical Machine & Applied Electronics	Electrical Machines MED 254
S.E. (Mech/Prod)	[OLD]	I	Thermodynamics-I	Thermodynamics-I MED 202
S.E. (Mech/Prod)	[OLD]	I	Production Processes-I	Production Processes MED 205
S.E. (Mech/Prod)	[OLD]	I	Strength of Material	Strength of Material MED 204
S.E. (Mech/Prod)	[OLD]	I	Machine Drawing	Machine Drawing MED 203
S.E. (Mech/Prod)	[OLD]	II	Theory of Machines-I	Theory of Machines-I MED 253
S.E. (Mech/Prod)	[OLD]	II	Thermodynamics-II	Thermodynamics-II MED 252
S.E. (Mech/Prod)	[OLD]	II	Production Processes-II	Machine Tools MED 255


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T.E. (Mechanical) Pre-revised Course (80/20) - Marks Pattern				Equivalent Subject in T.E. (Mechanical) Revised Course (80/20 - CBC&GS Pattern)
T.E. (Mechanical)	[OLD]	I	Theory of Machines-II	Theory of Machines-II MED 304
T.E. (Mechanical)	[OLD]	I	Metallurgy & Materials	Materials & Metallurgy MED 302
T.E. (Mechanical)	[OLD]	I	Design of Machine Elements-I	Design of Machine Elements-I MED 301
T.E. (Mechanical)	[OLD]	II	Desing of Machine Elements - II	Desing of Machine Elements - II MED 351
T.E. (Mechanical)	[OLD]	I	Fluid Mechanics	Fluid Mechanics (Old) Note :-- In revised course , equivalent subject for Fluid Mechanics is not available
T.E. (Mechanical)	[OLD]	I	Fluid Mechanics & Machinery	Fluid Mechanics and Machines MED 303
T.E. (Mechanical)	[OLD]	I	Industrial Management & Engineering Eco.	Modern Management Techniques MED305
T.E. (Mechanical)	[OLD]	II	Heat Transfer	Heat Transfer MED 352
T.E. (Mechanical)	[OLD]	II	Tool Engineering	Tool Engineering MED 353
T.E. (Mechanical)	[OLD]	II	CAD/CAM/CAE	CAD/CAM MED 354
T.E. (Mechanical)	[OLD]	II	Industrial Hydraulics and Pneumatics	Industrial Hydraulics and Pneumatics MED 355 (Elective-I)


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T.E. (Mechanical)	[OLD]	I	Mechanical Measurements	Mechanical Measurements (Old) Note :- In old pattern online examination for MM subject, no equivalent subject in revised course.
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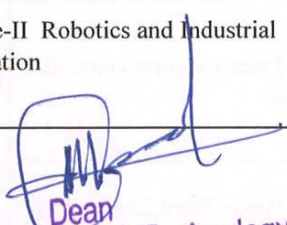

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Board of Studies in Mechanical Engineering
Equivalent Subjects of B.E. (Mechanical) Part I & II Pre- revised course to Revised course of
B.E. (Mechanical) Part I & II effective from Academic Year 2022-2023

Sr. No.	B.E. (Mechanical) Pre-revised Course (80/20) - Marks Pattern				Equivalent Subject in B.E. (Mechanical) Revised Course (80/20 - CBC&GS Pattern)
1	B.E. (Mechanical)	[OLD]	I	I.C. Engines	I.C. Engines And Gasturbine MED 401
2	B.E. (Mechanical)	[OLD]	I	Automatic Control System	Automatic Control System MED 402
3	B.E. (Mechanical)	[OLD]	I	Metrology and Quality Control	Metrology and Quality Control. MED 403
4	B.E. (Mechanical)	[OLD]	I	Turbo Machines	Turbo Machines. (Old) Note :- In revised course , equivalent subject for Turbo machines is not available
5	B.E. (Mechanical)	[OLD]	I	Elective-I: Energy Conservation and Management	Energy Conservation and Management MED404
6	B.E. (Mechanical)	[OLD]	I	Elective-I: Power Plant Engineering	Elective-II Power Plant Engineering. MED 406
7	B.E. (Mechanical)	[OLD]	I	Elective-I: Production Planning and Control	Elective-II Production Planning and Control MED 407
8	B.E. (Mechanical)	[OLD]	I	Elective-I: Advanced Materials and Manufacturing	Elective-II Advanced Materials and Manufacturing MED 408
9	B.E. (Mechanical)	[OLD]	I	Elective-I: Modern Management Techniques	Elective-II Production Planning and Control MED 407
10	B.E. (Mechanical)	[OLD]	I	Elective-I: Non Conventional Energy System	Elective-II Power Plant Engineering. MED 406
11	B.E. (Mechanical)	[OLD]	II	Automobile Engineering	Automobile Engineering. MED 451
12	B.E. (Mechanical)	[OLD]	II	Project Management and Operations Research	Project Management and Operations Research MED 452
13	B.E. (Mechanical)	[OLD]	II	Refrigeration and Air Conditioning	Refrigeration and Air Conditioning MED 453
14	B.E. (Mechanical)	[OLD]	II	Elective-II: Machine Tool Design	Elective-III: Industrial Engineering MED456
15	B.E. (Mechanical)	[OLD]	II	Elective-II: Computational Fluid Dynamics	Elective-III :Computational Fluid Dynamics MED 457

16	B.E. (Mechanical)	[OLD]	II	Elective-II: Industrial Engineering	Elective-III : Industrial Engineering MED 456
17	B.E. (Mechanical)	[OLD]	II	Elective-II: Tribology	Elective-III :Tribology MED 458
18	B.E. (Mechanical)	[OLD]	II	Elective-II: Piping System Engineering	Elective-III :Tribology MED 458
19	B.E. (Mechanical)	[OLD]	II	Elective-II: Automotive Technology	Elective-III : Aerospace Engineering MED 455
20	B.E. (Mechanical)	[OLD]	II	Elective-II: Advanced Vibrations & Noise Control	Elective-III : Finite Element Analysis MED 454
21	B.E. (Mechanical)	[OLD]	II	Elective-II Robotics and Industrial Automation	Elective-III :Tribology MED 458


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DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD

Board of Studies in EC/ECT/E&C Engineering

Equivalent Subjects of B.E. (EC/ECT/E&C) Part I & II Pre- revised course to Revised course of
B.E. (EC/ECT/E&C) Part I & II effective from Academic Year 2022-2023

Sr. No.	S.E. (EC/ECT/E&C) Pre-revised Course (80/20) - Marks Pattern	Equivalent Subject in S.E. (EC/ECT/E&C) Revised Course (80/20 - CBC&GS Pattern)
1	Electronics Devices & Circuits-I	Electronics Devices & Circuits- (ETC202)
2	Network Analysis	Network Analysis (ETC204)
3	Communication Engineering	Analog Communication Engineering (ETC203)
4	Data Structure	Data Structure and Linux (ETC205)
5	Signals & Systems	Signals and Systems (ETC254)
6	Digital Logic Design	Digital Logic Design (ETC253)
7	Electronics Devices & Circuits-II	High Speed Analog Devices (ETC252)
8	Electrical Machines & Instrumentation	Electrical Machines & Instrumentation (ETC255)


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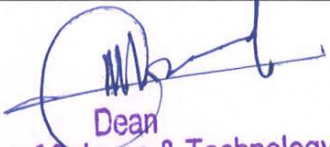

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Board of Studies in EC/ECT/E&C Engineering

Equivalent Subjects of B.E. (EC/ECT/E&C) Part I & II Pre- revised course to Revised course of
B.E. (EC/ECT/E&C) Part I & II effective from Academic Year 2022-2023

Sr. No.	T.E. (EC/ECT/E&C) Pre-revised Course (80/20) - Marks Pattern	Equivalent Subject in T.E. (EC/ECT/E&C) Revised Course (80/20 - CBC&GS Pattern)
1	Signal Coding & Estimation Theory	Information Theory and Coding
2	Electromagnetic Engineering	Electromagnetic Engineering
3	Microprocessor & Peripheral	Microprocessors and Microcontroller
4	Analog Integrated Circuit & Application	Industrial Automation
5	Digital Signal Processing	Digital Signal Processing
6	Power Electronics	Power Electronics and Drives
7	Microcontroller & Advanced Processors	Embedded System
8	Electronics System Design	Electronics Circuit Technology
9	Feedback Control System	Feedback Control System
10	Digital Communication	Digital Communication


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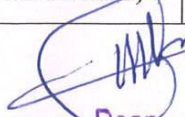

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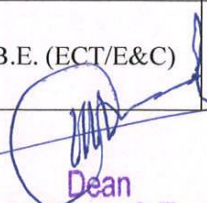
Board of Studies in EC/ECT/E&C Engineering

Equivalent Subjects of B.E. (EC/ECT/E&C) Part I & II Pre- revised course to Revised course of
B.E. (EC/ECT/E&C) Part I & II effective from Academic Year 2022-2023

Sr. No.	B.E. (EC/ECT/E&C) Pre-revised Course (80/20) - Marks Pattern				Equivalent Subject in B.E. (EC/ECT/E&C) Revised Course (80/20 - CBC&GS Pattern)
1	B.E. (EC/ECT/E&C)	[OLD]	I	Digital Image Processing	Digital Image Processing (ETC-401)
2	B.E. (EC/ECT/E&C)	[OLD]	I	Embedded Systems	Advance Embedded System Design- (ETC 403)
3	B.E. (EC/ECT/E&C)	[OLD]	I	VLSI Design	VLSI Design-(ETC404)
4	B.E. (ECT/E&C)	[OLD]	I	Microwave & Radar Engg.	Microwave & Radar Engg.(ETC402)
5	B.E. (EC)	[OLD]	I	Robotics	Industry 4.O (ETC443)
6	B.E. (EC)	[OLD]	I	Elective-I: Advanced Power Electronics	Internet of Things (ETC441)
7	B.E. (EC)	[OLD]	I	Elective-I: Consumer Electronics	Consumer Electronics (EXD453) (old)
8	B.E. (EC/ECT/E&C)	[OLD]	I	Elective-I: Biomedical Electronics	Internet of Things-(ETC441)
9	B.E. (EC/ECT/E&C)	[OLD]	I	Elective-I: Android Technology	Android Programming (ETC493)
10	B.E. (EC/ECT/E&C)	[OLD]	I	Elective-I: Advanced Industrial Automation	Industry 4.0 (ETC443)
11	B.E. (ECT)	[OLD]	I	Elective-I: Internet of Things Embedded System	Internet of Things -(ETC441)
12	B.E. (ECT/CSE/IT/EE)	[OLD]	I	Elective-I: Advanced Business Application Programming- I	Internet of Things -(ETC441)
13	B.E. (ECT/CSE/IT/EE)	[OLD]	I	Elective-I: Inter Connection Networks	Internet of Things -(ETC441)
14	B.E. (ECT/CSE/IT/EE)	[OLD]	I	Elective-I: Learning Management System	Internet of Things -(ETC441)
15	B.E. (ECT/E&C)	[OLD]	I	Elective-I: Artificial Neural Network & Fuzzy Logic	AI and ML (ETC442)
16	B.E. (ECT/E&C)	[OLD]	I	Elective-I: Wireless Mobile Communication	Wireless Mobile Communication (ETC453)
17	B.E. (EC/ECT/E&C)	[OLD]	II	Computer Communication Network	Computer Network & Security (ETC451)
18	B.E. (EC/ECT/E&C)	[OLD]	II	Optical Fiber Communication	Fiber Optical Communication (EXD452)


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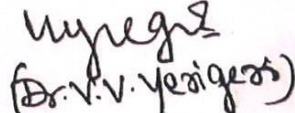
19	B.E. (ECT/E&C)	[OLD]	II	Consumer Electronics	Consumer Electronics (EXD453)
20	B.E. (EC)	[OLD]	II	Applied Digital Signal Processing	Applied Digital Signal Processing (EXD454) (old)
21	B.E. (EC)	[OLD]	II	Elective-II: Microwave and Radar Engineering (EC)	Microwave and Radar Engineering (ETC402)
22	B.E. (EC)	[OLD]	II	Elective-II: Wireless & Mobile Communication (EC)	Wireless & Mobile Communication (ETC453)
23	B.E. (EC)	[OLD]	II	Elective-II: Industrial Drives & Control	Industry 4.0 (ETC443)
24	B.E. (EC/ECT/E&C)	[OLD]	II	Elective-II: Advanced Industrial Automation - II	Cloud Computing (ETC492)
25	B.E. (EC/ECT/E&C)	[OLD]	II	Elective-II: Analog Integrated Circuit Design	Antenna Theory (ETC452)
26	B.E. (EC/ECT/E&C)	[OLD]	II	Elective-II: Satellite Communication	Antenna Theory (ETC452)
27	B.E. (ECT)	[OLD]	II	Elective-II: Solar Photo Voltaics Design	Cloud Computing (ETC492)
28	B.E. (ECT)	[OLD]	II	Elective-II: Internet of Things Embedded System-II	Cloud Computing (ETC492)
29	B.E. (ECT/CSE/IT)	[OLD]	II	Elective-II: Instructional Technology for E-Learning	Cloud Computing (ETC492)
30	B.E. (ECT/CSE/IT)	[OLD]	II	Elective-II: Cross-Platform Application Development	Cloud Computing (ETC492)
31	B.E. (ECT/CSE/IT/EE)	[OLD]	II	Elective-II: Advanced Business Application Programming - II	Cloud Computing (ETC492)
32	B.E. (ECT/CSE/IT/EE)	[OLD]	II	Elective-II: Managing Advance Server	Cloud Computing (ETC492)
33	B.E. (ECT/E&C)	[OLD]	II	[Elective-II: Antenna Theory & Wave Propagation	Antenna Theory (ETC452)
34	B.E. (ECT/E&C)	[OLD]	II	Elective-II: Applied Digital Signal Processing	Applied Digital Signal Processing (EXD454) (old)
35	B.E. (ECT/E&C)	[OLD]	II	Elective-II: Robotics	Industry 4.0 (ETC443)


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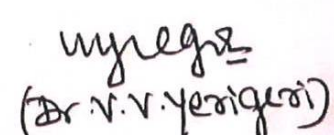
DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD Board of Studies in Second Year Engineering Equivalent Subjects of S.E. (I&CE/IE) Part I & II Pre- revised course to Revised course of S.E. (I&CE/IE) Part I & II effective from Academic Year 2022-2023				
S.E. (I&CE/IE) Pre-revised Course (80/20) - Marks Pattern				Equivalent Subject in S.E. (I&CE/IE) Revised Course (80/20 - CBC&GS Pattern)
S.E. (I&CE/IE)	[OLD]	I	Sensor Technology-I	Sensors & Transducers-I
S.E. (I&CE/IE)	[OLD]	I	Electronic Devices & Circuits	Electronic Devices & Circuits
S.E. (I&CE/IE)	[OLD]	I	Network Theory	Network Analysis & Synthesis
S.E. (I&CE/IE)	[OLD]	I	Basic Instrumentation	Basic Instrumentation
S.E. (I&CE/IE)	[OLD]	II	Digital Electronics & Microprocessor	Digital Electronics & Microprocessor
S.E. (I&CE/IE)	[OLD]	II	Electrical Machines	Electrical Machines
S.E. (I&CE/IE)	[OLD]	II	Sensors Technology-II	Sensors & Transducers-II
S.E. (I&CE/IE)	[OLD]	II	Linear Integrated Circuits & Application	Analog Integrated circuits & Applications


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 (Dr. V.V. Yeriger)

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD Board of Studies in Second Year Engineering Equivalent Subjects of T.E. (Ins. &Cont./IE) Part I & II Pre- revised course to Revised course of T.E. (Ins. &Cont./IE) Part I & II effective from Academic Year 2022-2023				
T.E. (Ins. &Cont./IE) Pre-revised Course (80/20) - Marks Pattern				Equivalent Subject In T.E. (Ins. &Cont./IE) Revised Course (80/20 - CBC&GS Pattern)
T.E. (IE)	[OLD]	I	Industrial Drives & Control	Opto-Electronics Instrumentation
T.E. (Ins. &Cont./IE)	[OLD]	I	Control System Engineering-I	Control System & Components
T.E. (Ins. &Cont./IE)	[OLD]	I	Advanced Microprocessor & Embedded System	Advanced Microprocessor & Microcontroller
T.E. (Ins. &Cont./IE)	[OLD]	I	Industrial Process Control	Process Instrumentation
T.E. (Ins. &Cont./IE)	[OLD]	I	Process Equipment Design & Operations	Process Equipment Design & Operations
T.E. (Ins. &Cont./IE)	[OLD]	I	Signal & Systems	Signal & Systems
T.E. (Ins. &Cont./IE)	[OLD]	II	Digital Signal & Image Processing	Digital Signal & Image processing
T.E. (Ins. &Cont./IE)	[OLD]	II	Power Drives & Control	Power Electronics
T.E. (Ins. &Cont./IE)	[OLD]	II	Power Generation & Control	Power Plant Instrumentation
T.E. (Ins. &Cont./IE)	[OLD]	II	PLC and DCS	Distributed Control System
T.E. (Ins. &Cont./IE)	[OLD]	II	Control System Enng. - II	Control Engineering

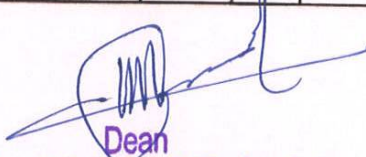

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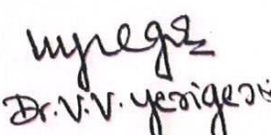

 (Dr. V.V. Yeshiguri)

BE Equivalent List

DR. BABASAHEB AMBEDKAR MARATHIWADA UNIVERSITY, AURANGABAD
Board of Studies in Instrumentation Engineering
 Equivalent Subjects of B.E. (Instrumentation) Part I & II Pre-revised course to Revised course of
 B.E. (Instrumentation) Part I & II effective from Academic Year 2022-2023

Sr. No.	B.E. (Instrumentation) Pre-revised Course (80/20) - Marks Pattern				Equivalent Subject in B.E. (Instrumentation) Revised Course (80/20 - CBC&GS Pattern)
1	B.E. (Instrumentation)	[OLD]	I	Modern Control Theory	Control System Design
2	B.E. (Instrumentation)	[OLD]	I	Process Modeling & Optimization	Process Modeling and Optimization
3	B.E. (Instrumentation)	[OLD]	I	Operating System and Networking	Computer Networks
4	B.E. (Instrumentation)	[OLD]	I	Biomedical Instrumentation	Biomedical Instrumentation
5	B.E. (Instrumentation)	[OLD]	I	Elective-I: Advanced Control System	Advanced Digital Signal Processing
6	B.E. (Instrumentation)	[OLD]	I	Elective-I: Robotics	Embedded Systems
7	B.E. (Instrumentation)		I	Elective-I: Neural and fuzzy based control system	Neural and Fuzzy Based Control System
8	B.E. (Instrumentation)	[OLD]	II	Digital Control System	Discrete Time Control Systems
9	B.E. (Instrumentation)	[OLD]	II	Project Engineering and Management	Project Management
10	B.E. (Instrumentation)	[OLD]	II	Instrument System Design	Instrument System Design
11	B.E. (Instrumentation)	[OLD]	II	Elective-II: Automotive Instrumentation	Automotive Instrumentation
12	B.E. (Instrumentation)	[OLD]	II	Elective-II: Building Automation and Security System	Building Automation and Security System
13	B.E. (Instrumentation)	[OLD]	II	Elective-II: VLSI Design	Robotics


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 Dr. V.V. Yengde

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**S.E. (EEP/EE/EEE) Pre-revised Course
(80/20) - Marks Pattern**

Equivalent Subject in S.E.
(EEP/EE/EEE)
Revised Course (80/20 - CBC&GS
Pattern)

S.E. (EEE)	[OLD]	I	Electronics Devices and Circuit	EED/ 206 Electronics Device and Circuits
S.E. (EEP/EE)	[OLD]	I	Electrical Engineering Materials	EEDE /205 Electrical Engineering Materials
S.E. (EEP/EE/EEE)	[OLD]	II	Network Analysis	EED /254 Network Analysis
S.E. (EEP/EE/EEE)	[OLD]	II	Electrical Power Transmission & Dist.	EED/255 Electrical Power Transmission and Distribution
S.E. (EEP/EE/EEE)	[OLD]	II	A.C. Machines	EED/253 A.C. Machines
S.E. (EEP/EE/EEE)	[OLD]	II	Analog & Digital Circuits	EED/ 256 Analog & Integrated Circuits
S.E. (EEP/EE/EEE)	[OLD]	I	Transformers & DC Machines	EED /202 Transformers & DC Machines
S.E. (EEP/EE/EEE)	[OLD]	I	Electrical Measuring Techniques	EED/203 Electrical Measuring Techniques
S.E. (EEP/EE/EEE)	[OLD]	I	Electrical Power Generation & its Economics	EED/ 204 Electrical Power Generation & its Economics

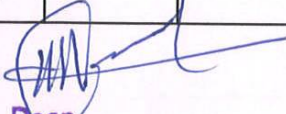

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**Faculty of Science & Technology
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University, Aurangabad**



**Dr. Chaudhari B.N.
Professor & Head
Department of Electrical Engineering
P.E.S. College of Engineering
Aurangabad (M.S.)**

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD				
T.E. (EEP/EE/EEE) Pre-revised Course (80/20) - Marks Pattern				Equivalent Subject in T.E. (EEP/EE/EEE) Revised Course (80/20 -
T.E. (EEP/EE /EEE)	[OLD]	I	Special Purpose Electrical Machines	EE /305 EI-II Special Purpose Electrical Machines
T.E. (EEP/EE /EEE)	[OLD]	I	Electromagnetic Fields	EE /303 Electromagnetic Fields
T.E. (EEP/EE /EEE)	[OLD]	I	Control System Engineering	EE /304 Control System Engineering
T.E. (EEP/EE /EEE)	[OLD]	I	Microprocessor & Interfacing	EE /302 Microprocessor & Interfacing
T.E. (EEP/EE /EEE)	[OLD]	I	Power Systems Analysis	EE /301 Power Systems Analysis
T.E. (EEP/EE /EEE)	[OLD]	II	Electrical Machine Design	EE /351 Electrical Machine Design
T.E. (EEP/EE /EEE)	[OLD]	II	Power Electronics	EE /353 Power Electronics
T.E. (EEP/EE /EEE)	[OLD]	II	Testing & Maintenance of Electrical Equipment	EE /352 Testing & Maintenance of Electrical Equipment
T.E. (EEP/EE /EEE)	[OLD]	II	Microcontrollers & Applications	EE /354 Microcontrollers & Applications
T.E. (EEP/EE /EEE)	[OLD]	II	Energy Conservation & Audit	Elective III EE /355 Energy Conservation & Audit


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Sr. No.	B.E. (EE/EEP/EEE) Pre-revised Course (80/20) - Marks Pattern				Equivalent Subject in B.E. (EE/EEP/EEE) Revised Course (80/20 - CBC&GS Pattern) BE (EEP/EE/EEE) wefA/C Year 2019-20.
1	B.E. (EEP/EE/EEE)	[OLD]	I	Electrical Drives	EEP/401 Electrical Drives
2	B.E. (EEP/EE/EEE)	[OLD]	I	Power System Protection	EEP/402 Power System protection
3	B.E. (EEP/EE/EEE)	[OLD]	I	Digital Signal Processing	EEP/403 Digital Signal Processing
4	B.E. (EEP/EE/EEE)	[OLD]	I	Industrial Automation	EEP/404 Industrial Automation
5	B.E. (EEP/EE/EEE)	[OLD]	I	Elective-I: Industrial Management	EEP/443 Electrical Traction and Utilization
6	B.E. (EEP/EE/EEE)	[OLD]	I	Elective-I: Flexible AC Transmission System	EEP/441 Flexible AC Transmission System
7	B.E. (EEP/EE/EEE)	[OLD]	I	Elective-I: Power Electronics -II	EEP/442 Power Electronics-II
8	B.E. (EEP/EE/EEE)	[OLD]	I	Elective-I: Digital System Design	EEP/442 Power Electronics-II
9	B.E. (EEP/EE/EEE)	[OLD]	I	Elective-I: Recent Trends in Power Systems	EEP/441 Flexible AC Transmission System
10	B.E. (EEP/EE/EEE)	[OLD]	I	Elective-I: Neural Network and Fuzzy Logic	EEP/444 Artificial Intelligence
11	B.E. (EE)	[OLD]	I	Elective-I: SAP Production Planning - I	EEP/443 Electrical Traction and Utilization
12	B.E. (EEP/EE/EEE)	[OLD]	II	High Voltage Engineering	EEP/451 High Voltage Engineering
13	B.E. (EEP/EE/EEE)	[OLD]	II	Power System Operation & Control	EEP/452 Power System Operation & Control
14	B.E. (EEP/EE/EEE)	[OLD]	II	Renewable Energy	EEP/453 Non Conventional Energy Sources and Applications
15	B.E. (EEP/EE/EEE)	[OLD]	II	Elective-II: Electrical Power Quality	EEP/491 Electrical Power Quality
16	B.E. (EEP/EE/EEE)	[OLD]	II	Elective-II: Electric Traction & Utilization	EEP/443 Electrical Traction and Utilization
17	B.E. (EEP/EE/EEE)	[OLD]	II	Elective-II: Electrical System Planning & Design	EEP/492 Electrical System Planning and Design

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18	B.E. (EEP/EE/EEE)	[OLD]	II	Elective-II: Illumination Engineering	EEP/496 Open Elective II
19	B.E. (EEP/EE/EEE)	[OLD]	II	Elective-II: Control System – II	EEP/495 Control System II
20	B.E. (EEP/EE/EEE)	[OLD]	II	Elective-II: Embedded System	EEP/493 Embedded Systems
21	B.E. (EE)	[OLD]	II	Elective-II: SAP Production Planning - II	EEP/492 Electrical System Planning and Design



Dr. Chaudhari B.N.
Professor & Head
Department of Electrical Engineering
P.E.S. College of Engineering
Aurangabad (M.S.)



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DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD Board of Studies in Second Year Engineering Equivalent Subjects of S.E. (CSE/IT) Part I & II Pre- revised course to Revised course of S.E. (CSE/IT) Part I & II effective from Academic Year 2022-2023				
S.E. (CSE/IT) Pre-revised Course (80/20) - Marks Pattern				Equivalent Subject in S.E. (CSE/IT) Revised Course (80/20 - CBC&GS Pattern)
S.E. (CSE/IT)	[OLD]	II	Microprocessors	Microprocessor and Computer Organization(CSE254)
S.E. (CSE/IT)	[OLD]	II	Computer Graphics	Computer Graphics(CSE255)
S.E. (CSE/IT)	[OLD]	II	Discrete Mathematics	Discrete Mathematics(CSE252)
S.E. (CSE/IT)	[OLD]	II	Object Oriented Programming Using C++	Object Oriented Programming (CSE253)
S.E. (CSE/IT)	[OLD]	I	Computer Networks-I	Computer Networks(CSE203)
S.E. (CSE/IT)	[OLD]	I	Data Structures using C	Data Structures (CSE202)
S.E. (CSE/IT)	[OLD]	I	Unix & Shell Programming	Linux operating system(CSE205)
S.E. (CSE/IT)	[OLD]	I	Digital Electronics	Digital Electronics(CSE205)

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Faculty of Science & Technology
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad**Chairman [BOS]**Faculty of Science and
Engineering**Member [BOS]**Dr. Ramesh Chandra
Computer Science and Engineering

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD Board of Studies in Second Year Engineering Equivalent Subjects of T.E. (CSE/IT) Part I & II Pre- revised course to Revised course of T.E. (CSE/IT) Part I & II effective from Academic Year 2022-2023				
T.E. (CSE/IT) Pre-revised Course (80/20) - Marks Pattern				Equivalent Subject in T.E. (CSE/IT) Revised Course (80/20 - CBC&GS Pattern)
T.E. (CSE)	[OLD]	I	Digital Image Processing	Digital Image Processing (CSE342)
T.E. (IT)	[OLD]	I	Multimedia Computing	Programming in Java (CSE304)
T.E. (CSE/IT)	[OLD]	I	Software Engineering	Software Engineering (CSE352)
T.E. (CSE/IT)	[OLD]	I	Database Management System	Database Management System (CSE303)
T.E. (CSE/IT)	[OLD]	I	Programming in Java	Programming in Java (CSE304)
T.E. (CSE/IT)	[OLD]	I	Operating System	Operating System (CSE301)
T.E. (CSE/IT)	[OLD]	II	Advanced JAVA	Advanced JAVA (CSE351)
T.E. (CSE/IT)	[OLD]	II	Design & Analysis of Algorithms	Design & Analysis of Algorithms (CSE353)
T.E. (CSE/IT)	[OLD]	II	Computer Networks - II	Elective-I Computer Networks Architecture and Protocols (CSE341)
T.E. (CSE/IT)	[OLD]	II	Theory of Computation	Theory of Computation (CSE302)
T.E. (CSE/IT)	[OLD]	II	Software Testing and Quality Assurance	Software Engineering (CSE352)

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Faculty of Science & Technology
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad

Chairman [BOS]

Faculty of Science and Technology Computer Science and Engineering

Member [BOS]

Dr. Rahmat Khan

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD

Board of Studies in CSE/TI Engineering

Equivalent Subjects of B.E. (Computer Science and Engineering /Information Technology) Part I & II Pre- revised course to Revised course of B.E. (CSE/IT) Part I & II effective from Academic Year 2022-2023

Sr. No.	B.E. (Computer Science and Engineering / IT) Pre-revised Course (80/20) - Marks Pattern				Equivalent Subject in B.E. (Computer Science and Engineering / IT) Revised Course (80/20 - CBC&GS Pattern)
1	B.E. (CSE/IT)	[OLD]	I	Data Warehousing & Data Mining (CSE/IT)	Data Warehousing and Data Mining (CSE401)
2	B.E. (CSE)	[OLD]	I	Parallel & Distributed Computing	Machine Learning (CSE453)
3	B.E. (CSE)	[OLD]	I	Principles of Compiler Design	Principles of Compiler Design (CSE402)
4	B.E. (CSE)	[OLD]	I	Visual Modeling	Object Oriented Software Modeling and Design (CSE403)
5	B.E. (IT)	[OLD]	I	Cloud Computing	Cloud Computing (CSE404)
6	B.E. (IT)	[OLD]	I	Geographical Information System	Geographical Information System (ITD402)
7	B.E. (IT)	[OLD]	I	E-Business Management	Elective-V ERP (CSE492)
8	B.E. (CSE)	[OLD]	I	Elective-I: Artificial Intelligence	Elective-V Human Computer Interface (CSE494)
9	B.E. (CSE)	[OLD]	I	Elective-I: Cloud Computing	Cloud Computing (CSE404)
10	B.E. (CSE)	[OLD]	I	Elective-I: Multicore Computing	Elective - V- Game Architecture and Design(CSE493)
11	B.E. (CSE)	[OLD]	I	Elective-I: Data Analytics with R	Big Data Computing(CSE451)
12	B.E. (CSE/IT)	[OLD]	I	Elective-I: Internet of Things	Elective-IV- Internet of Things(CSE443)
13	B.E. (IT)	[OLD]	I	Elective-I: Artificial Neural Network & Fuzzy Logic	Soft Computing (CSE452)
14	B.E. (IT)	[OLD]	I	Elective-I: Compiler Construction	Elective IV-Compiler Design (ITD442)
15	B.E. (IT)	[OLD]	I	Elective-I: Object Oriented Analysis & Modeling	Object Oriented Software Modeling and Design (CSE403)
16	B.E. (CSE/IT)	[OLD]	II	Computer System Security and Laws (CSE/IT)	Information and Cyber Security (CSE491)

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17	B.E. (CSE/IT)	[OLD]	II	Mobile Computing (CSE/IT)	Cloud Computing (CSE404)
18	B.E. (CSE)	[OLD]	II	Soft Computing	Soft Computing (CSE452)
19	B.E. (IT)	[OLD]	II	Big Data Analytics	Big Data Computing(CSE451)
20	B.E. (CSE)	[OLD]	II	Elective-II: Remote Sensing & Geographical Information System	Elective IV-Remote Sensing and Geographical Information Systems (CSE442)
21	B.E. (CSE)	[OLD]	II	Elective-II: Network Infrastructure Management	Cloud Computing (CSE404)
22	B.E. (CSE)	[OLD]	II	Elective-II: I- Phone Programming	Elective-V ERP (CSE492)
23	B.E. (CSE)	[OLD]	II	Elective-II: Hadoop Technology	Cloud Computing (CSE404)
24	B.E. (CSE)	[OLD]	II	Elective-II: Data Science	Big Data Computing(CSE451)
25	B.E. (CSE/IT)	[OLD]	II	Elective-II: Green IT (CSE/IT)	Elective-IV - Agile Methodology (CSE441)
26	B.E. (CSE/IT)	[OLD]	II	Elective-II: Agile Methodology (CSE/IT)	Elective - IV - Agile Methodology (CSE441)
27	B.E. (IT)	[OLD]	II	Elective-II: Image processing & Pattern Recognition	Elective -V Computer Vision (ITD494)

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Faculty of Science & Technology
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad**Chairman [BOS]**Faculty of Science and
Engineering**Member [BOS]**Dr. Rahat Khan
Computer Science and Engineering

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD

Board of Studies in Second Year Engineering

Equivalent Subjects of S.E. (Chemical) Part I & II Pre-revised course to Revised course of

S.E. (Chemical) Part I & II effective from Academic Year 2022-2023

S.E. (Chemical) Pre-revised Course (80/20) - Marks Pattern				Equivalent Subject in S.E. (Chemical) Revised Course (80/20 - CBC&GS Pattern)
S.E. (Chemical)	[OLD]	I	Fluid Mechanics	Fluid Mechanics
S.E. (Chemical)	[OLD]	I	Engineering Chemistry	Engineering Chemistry
S.E. (Chemical)	[OLD]	I	Physical Chemistry & Thermodynamics	Physical Chemistry & Thermodynamics
S.E. (Chemical)	[OLD]	I	Chemical Process Calculations	Chemical Process Calculations
S.E. (Chemical)	[OLD]	II	Process Instrumentation & Analytical Tech.	Process Instrumentation & Analytical Tech.
S.E. (Chemical)	[OLD]	II	Strength of Materials	Strength of Materials
S.E. (Chemical)	[OLD]	II	Mechanical Operations	Mechanical Operations
S.E. (Chemical)	[OLD]	II	Heat Transfer	Heat Transfer



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W.P.S.
(M.V. Pople)

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD

Board of Studies in Second Year Engineering

Equivalent Subjects of T.E. (Chemical) Part I & II Pre-revised course to Revised course of

T.E. (Chemical) Part I & II effective from Academic Year 2022-2023

**T.E. (Chemical) Pre-revised Course
(80/20) - Marks Pattern**

T.E. (Chemical) Pre-revised Course (80/20) - Marks Pattern				Equivalent Subject in T.E. (Chemical) Revised Course (80/20 - CBC&GS Pattern)
T.E. (Chemical)	[OLD]	I	Industrial Pollution & Control	Industrial Pollution & Control
T.E. (Chemical)	[OLD]	I	Chemical Reaction Engineering-I	Chemical Reaction Engineering-I
T.E. (Chemical)	[OLD]	I	Material Science & Technology	Material Science & Technology
T.E. (Chemical)	[OLD]	I	Chemical Engineering Thermodynamics	Chemical Engineering Thermodynamics
T.E. (Chemical)	[OLD]	I	Mass Transfer Operations-I	Mass Transfer Operations-I
T.E. (Chemical)	[OLD]	II	Process Equipment Design & Drawing - I	Process Equipment Design & Drawing - I
T.E. (Chemical)	[OLD]	II	Chemical Reaction Engineering-II	Chemical Reaction Engineering-II
T.E. (Chemical)	[OLD]	II	Mass Transfer Operations-II	Mass Transfer Operations-II
T.E. (Chemical)	[OLD]	II	Plant Design & Process Economics	Plant Design & Process Economics
T.E. (Chemical)	[OLD]	II	Chemical Process Industries	Chemical Process Industries

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University, Aurangabad

(Signature)
(M.W. Pople)

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD

Board of Studies in Chemical Engineering

Equivalent Subjects of B.E. (Chemical) Part I & II Pre-revised course to Revised course of

B.E. (Chemical) Part I & II effective from Academic Year 2022-2023

Sr. No.	B.E. (Chemical) Pre-revised Course (80/20) - Marks Pattern			Equivalent Subject in B.E. (Chemical) Revised Course (80/20 - CBC&GS Pattern)
	B.E. (Chemical)	[OLD]	I	
1	B.E. (Chemical)	[OLD]	I	Process Dynamics and Control
2	B.E. (Chemical)	[OLD]	I	process equipment Design & Drawing- II
3	B.E. (Chemical)	[OLD]	I	Transport Phenomena
4	B.E. (Chemical)	[OLD]	I	Industrial Safety and Management
5	B.E. (Chemical)	[OLD]	I	Elective-I: Biochemical Engineering
6	B.E. (Chemical)	[OLD]	I	Elective-I: Industrial Piping
7	B.E. (Chemical)	[OLD]	I	Elective-I: Energy Engineering
8	B.E. (Chemical)	[OLD]	II	Process Modeling and Simulation
9	B.E. (Chemical)	[OLD]	II	Advanced Separation Processes
10	B.E. (Chemical)	[OLD]	II	Petrochemical Engineering
11	B.E. (Chemical)	[OLD]	II	Elective-II: Food Technology
12	B.E. (Chemical)	[OLD]	II	Elective-II: Polymer Technology
13	B.E. (Chemical)	[OLD]	II	Elective-II: Computer Aided design and Optimization



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Faculty of Science & Technology
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad



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