



जा.क्र.उमवि/21/अभ्यासमंडळ/ 247 /2014

दि.01/10/2014

प्रति,

मा. प्राचार्य,

उत्तर महाराष्ट्र विद्यापीठाशी संलग्नित

सर्व अभियांत्रिकी महाविद्यालये

**विषय:- अभियांत्रिकी व तांत्रिकी विद्याशाखेतील प्रथम व द्वितीय वर्षातील जुन्या अभ्यासक्रमांच्या समकक्ष विषयांबाबत...**

महोदय,

अभियांत्रिकी व तांत्रिकी विद्याशाखेतर्गत प्रथम व द्वितीय वर्षातील जुन्या अभ्यासक्रमांच्या समकक्ष विषयांची सूचीसोबत पाठवित आहोत. तरीसमकक्ष विषयांचीसूची संबधितांच्या निदर्शनांस आणून द्यावी, ही विनंती.

कळावे,

आपला विश्वासू,

Sd/-

संचालक

बी.सी.यु.डी.

प्रत माहिती व योग्यत्या कार्यवाहीस्तव :-

- 1) मा. अधिष्ठाता, अभियांत्रिकी व तांत्रिकी विद्याशाखा, उमवि
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## **Mechanical (SE)**

### **SEM - I**

MSM - No equivalence

Reason - Previous subject was material science and new subject is material science & metallurgy having 50% syllabus change.

### **Industrial Engineering**

Reason - New subject is Industrial Safety & Engineering having almost 40 - 50% change in syllabus. So no equivalence.

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## **E&TC (SE)**

- In new syllabus (CDIT) only one unit is same

Electronic Material and Components - Present subject have different syllabus (Major changes)

Electronic Instrumentation - No such subject present in new syllabus

Management science - -- “ —

Network & lines - Present subject (NAS) have different Syllabus (Major changes)

Subjects are merged in to a single subject in New (CGPA) syllabus.

## **Electrical (SE)**

Electrical Machine (I) –

A.C. circuit & transformer and Electrical Machine – (I) are merged in one subject (New) Electrical Machine – (I) so not equivalence.

Power Plant Engg. –

Applied Thermodynamics & Power Plant Engg are merged in one subject (New) Power Plant Engg. – So no equivalence.

A.C. Circuit & Transformer –

No such subject in New Syllabus.

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## **Computer Engg (SE)**

- 1) Analog Electronics – New syllabus contains only 2 units from old syllabus.
- 2) DSM – No such subject included in new syllabus.
- 3) IME \* - No such subject included in new syllabus.
- 4) Microprocessor-I\* - No such subject included in new syllabus.
- 5) DSP - No such subject included in new syllabus.

## **IT (SE)**

- 1) PPM - No such subject included in new syllabus.

\* Subject common to Computer Engg & IT

## **FE**

### **Sem-I**

- 1) Professional Common – 100% practice oriented (No theory papers)
- 2) Engg Mechanics – E M & E C E are merged in new syllabus.
- 3) Elements of Electrical Engg – Elements of Electrical Engg& Elements of Electronic Engg are merged.

### **Sem-II**

- 1) Elements of Electrical Engg - Elements of Electrical Engg& Elements of Electronic Engg are merged.
- 2) Elements of Civil Engg – EM & ECE are merged
- 3) Introduction to computing – 80% syllabus revised.
- 4) Engg Thermo - Engg Thermo & 60% drawing is introduced

## **Equivalence**

### **FE**

#### **SEMESTER-I**

| Sr. No | Old Syllabus (2005-06)              | Sr. No. | Equivalent (New) Subject   |
|--------|-------------------------------------|---------|----------------------------|
| 1      | Engineering Physics- I              | 1       | Engineering Physics- I     |
| 2      | Engineering Chemistry- I            | 2       | Engineering Chemistry- I   |
| 3      | Engineering Mathematics- I          | 3       | Engineering Mathematics- I |
| 4      | Professional Communication          | 4       | No Equivalence             |
| 5      | Engineering Mechanics               | 5       | No Equivalence             |
| 6      | Elements of Electronics Engineering |         | No Equivalence             |

#### **SEMESTER-II**

| Sr. No | Old Syllabus (2005-06)             | Sr. No. | Equivalent (New) Subject    |
|--------|------------------------------------|---------|-----------------------------|
| 1      | Engineering Physics- II            | 1       | Engineering Physics- II     |
| 2      | Engineering Chemistry- II          | 2       | Engineering Chemistry- II   |
| 3      | Engineering Mathematics- II        | 3       | Engineering Mathematics- II |
| 4      | Elements of Electrical Engineering | 4       | No Equivalence              |
| 5      | Elements of Civil Engineering      | 5       | No Equivalence              |
| 6      | Introduction to Computing          | 6       | No Equivalence              |
| 7      | Engineering Thermodynamics         | 7       | No Equivalence              |

## **Electronics Telecommunication & Industrial Electronics**

### **Equivalence**

#### **SE**

#### **SEMESTER-III**

| Sr. No | Old Syllabus (2005-06)              | Sr. No. | Equivalent (New) Subject           |
|--------|-------------------------------------|---------|------------------------------------|
| 1      | Electronics Material and Components | 1       | No Equivalence                     |
| 2      | Electronics Instrumentation         | 2       | No Equivalence                     |
| 3      | Digital Circuits and Logic Design   | 3       | Digital Techniques and Application |
| 4      | Electrical Circuits and Machine     | 4       | Electrical Circuits and Machine    |
| 5      | Semiconductor Devices and Circuits  | 5       | Solid State Devices and Circuits-I |

#### **SEMESTER-IV**

| Sr. No | Old Syllabus (2005-06)                | Sr. No. | Equivalent (New) Subject                 |
|--------|---------------------------------------|---------|--|
| 1      | Management Science                    | 1       | No Equivalence                           |
| 2      | Electronics Circuits and Applications | 2       | Solid State Devices and Circuits-II      |
| 3      | Engineering Mathematics-III           | 3       | Engineering Mathematics-III              |
| 4      | Networks and Lines                    | 4       | No Equivalence                           |
| 5      | Analog Communication                  | 5       | Communication System-I<br>(Semester-III) |

## **Computer Engineering**

### **Equivalence**

**SE**

**SEMESTER-III**

| Sr. No | Old Syllabus (2005-06)              | Sr. No. | Equivalent (New) Subject            |
|--------|-------------------------------------|---------|-------------------------------------|
| 1      | Analog Electronics                  | 1       | No Equivalence                      |
| 2      | Discrete Structure and Graph Theory | 2       | Discrete Structure and Graph Theory |
| 3      | Engineering Mathematics-III         | 3       | Engineering Mathematics-III         |
| 4      | Digital System And Microprocessor   | 4       | No Equivalence                      |
| 5      | Industrial Management and Economics | 5       | No Equivalence                      |

**SEMESTER-IV**

| Sr. No | Old Syllabus (2005-06)   | Sr. No. | Equivalent (New) Subject |
|--------|--------------------------|---------|--------------------------|
| 1      | Microprocessor-I         | 1       | No Equivalence           |
| 2      | Data Structure and Files | 2       | Data Structure           |
| 3      | Computer Organization    | 3       | Computer Organization    |
| 4      | Data Communication       | 4       | Data Communication       |
| 5      | Digital System Design    | 5       | No Equivalence           |

## **Information Technology**

### **Equivalence**

**SE**

**SEMESTER-III**

| Sr. No | Old Syllabus (2005-06)              | Sr. No. | Equivalent (New) Subject            |
|--------|-------------------------------------|---------|-------------------------------------|
| 1      | Engineering Mathematics-III         | 1       | Engineering Mathematics-III         |
| 2      | Discrete Structure and Graph Theory | 2       | Discrete Structure and Graph Theory |
| 3      | Programming Paradigm Methodology    | 3       | No Equivalence                      |
| 4      | Industrial Management               | 4       | No Equivalence                      |
| 5      | Digital System and Microprocessor   | 5       | Digital System and Microprocessor   |

**SEMESTER-IV**

| Sr. No | Old Syllabus (2005-06)   | Sr. No. | Equivalent (New) Subject                      |
|--------|--------------------------|---------|---|
| 1      | Data Communication       | 1       | Data Communication                            |
| 2      | Microprocessor-I         | 2       | No Equivalence                                |
| 3      | Data Structure and Files | 3       | Data Structure                                |
| 4      | Information Theory       | 4       | Information Theory<br>( <b>Semester-III</b> ) |
| 5      | Computer Organization    | 5       | Computer Organization                         |

## **Mechanical, Production and Automobile**

### **Equivalence**

**SE**

**SEMESTER-III**

| Sr. No | Old Syllabus (2005-06)      | Sr. No. | Equivalent (New) Subject                            |
|--------|-----------------------------|---------|---|
| 1      | Engineering Mathematics-III | 1       | Engineering Mathematics-III<br><b>(Semester-IV)</b> |
| 2      | Strength of Material        | 2       | Strength of Material                                |
| 3      | Material Science            | 3       | Material Science & Metallurgy                       |
| 4      | Manufacturing Engineering-I | 4       | Manufacturing Engineering-I                         |
| 5      | Applied Thermodynamics      | 5       | Applied Thermodynamics<br><b>(Semester-IV)</b>      |

**SEMESTER-IV**

| Sr. No | Old Syllabus (2005-06)                         | Sr. No. | Equivalent (New) Subject                 |
|--------|--|---------|--|
| 1      | Theory of Machine-I                            | 1       | Theory of Machine-I                      |
| 2      | Industrial Engineering                         | 2       | Industrial Safety & Engineering          |
| 3      | Fluid Mechanics                                | 3       | Fluid Mechanics<br><b>(Semester-III)</b> |
| 4      | Electrical Machines and Industrial Electronics | 4       | Basic Electrical Drives and Control      |
| 5      | Manufacturing Engineering –II                  | 5       | Manufacturing Engineering –II            |

## **Chemical Engineering**

### **Equivalence**

**SE**

**SEMESTER-III**

| Sr. No | Old Syllabus (2005-06)             | Sr. No. | Equivalent (New) Subject                           |
|--------|------------------------------------|---------|--|
| 1      | Chemistry-I                        | 1       | Applied Physical Chemistry<br><b>(Semester-IV)</b> |
| 2      | Chemistry-II                       | 2       | Applied Organic Chemistry                          |
| 3      | Unit Operation-I (Fluid Mechanics) | 3       | Fluid Flow Operation                               |
| 4      | Strength of Materials              | 4       | Chemical Engineering Materials                     |
| 5      | Engineering Mathematics-III        | 5       | Engineering Mathematics-III                        |

**SEMESTER-IV**

| Sr. No | Old Syllabus (2005-06)                     | Sr. No. | Equivalent (New) Subject                             |
|--------|--|---------|--|
| 1      | Chemical Processor-I                       | 1       | Chemical Engineering Processor-I                     |
| 2      | Chemistry-III                              | 2       | Applied Inorganic Chemistry<br><b>(Semester-III)</b> |
| 3      | Unit Operation-II ( Mechanical Operations) | 3       | Mechanical Operation                                 |
| 4      | Process Calculation                        | 4       | Process Calculation                                  |
| 5      | Industrial Economics and Management        | 5       | No Equivalence                                       |

## **Bio Technology**

### **Equivalence**

**SE**

**SEMESTER-III**

| Sr. No | Old Syllabus (2005-06)        | Sr. No. | Equivalent (New) Subject    |
|--------|-------------------------------|---------|-----------------------------|
| 1      | Concept in Biotechnology      | 1       | Concept in Biotechnology    |
| 2      | Microbiology                  | 2       | Microbiology                |
| 3      | Process Calculations          | 3       | Bioprocess Calculations     |
| 4      | Fluid Flow and Solid Handling | 4       | Unit Operation-I            |
| 5      | Engineering Mathematics-III   | 5       | Engineering Mathematics-III |

**SEMESTER-IV**

| Sr. No | Old Syllabus (2005-06) | Sr. No. | Equivalent (New) Subject |
|--------|------------------------|---------|--------------------------|
| 1      | Biochemistry           | 1       | Biochemistry             |
| 2      | Chemistry              | 2       | Chemistry                |
| 3      | Immunology             | 3       | Immunology               |
| 4      | Biostatistics          | 4       | Biostatistics            |
| 5      | Process Heat Transfer  | 5       | Process Heat Transfer    |

## **Electrical Engineering**

### **Equivalence**

**SE**

**SEMESTER-III**

| Sr. No | Old Syllabus (2005-06)          | Sr. No. | Equivalent (New) Subject         |
|--------|---------------------------------|---------|----------------------------------|
| 1      | Engineering Mathematics-III     | 1       | Engineering Mathematics-III      |
| 2      | Electrical Engineering Material | 2       | Electrical Engineering Materials |
| 3      | Applied Thermodynamics          | 3       | No Equivalence                   |
| 4      | AC circuit and Transformer      | 4       | No Equivalence                   |
| 5      | Electrical Measurement-I        | 5       | Electrical Measurement-I         |

**SEMESTER-IV**

| Sr. No | Old Syllabus (2005-06)                           | Sr. No. | Equivalent (New) Subject       |
|--------|--|---------|--------------------------------|
| 1      | Analog and Digital Electronics                   | 1       | Analog and Digital Electronics |
| 2      | Digital Computational Techniques and Programming | 2       | Numerical Techniques           |
| 3      | Network Analysis                                 | 3       | Network Analysis               |
| 4      | Electrical Machine-I                             | 4       | No Equivalence                 |
| 5      | Power System-I                                   | 5       | Power System-I                 |



## **Instrumentation Engineering**

### **Equivalence**

**SE**

**SEMESTER-III**

| Sr. No | Old Syllabus (2005-06)      | Sr. No. | Equivalent (New) Subject    |
|--------|-----------------------------|---------|-----------------------------|
| 1      | Engineering Mathematics-III | 1       | Engineering Mathematics-III |
| 2      | Industrial Instrumentation  | 2       | Measurement Fundamentals    |
| 3      | Automatic Control System    | 3       | Automatic Control System    |
| 4      | Analog Circuit and Analysis | 4       | Analog Circuit and Analysis |
| 5      | Digital Technique           | 5       | Digital Circuit and Design  |

**SEMESTER-IV**

| Sr. No | Old Syllabus (2005-06)              | Sr. No. | Equivalent (New) Subject                                |
|--------|-------------------------------------|---------|---|
| 1      | Transducers                         | 1       | Sensors and Transducers                                 |
| 2      | Computational Techniques            | 2       | Computational Methods and Programming<br>(Semester-III) |
| 3      | Electrical Machines                 |         | Electrical Machines and Network<br>(Semester-III )      |
| 4      | Metrology and Machine Tools         | 4       | No Equivalence  |
| 5      | Thermal and Fluid Power Engineering | 5       | No Equivalence  |

## **Civil Engineering**

### **Equivalence**

**SE**

**SEMESTER-III**

| Sr. No | Old Syllabus (2005-06)              | Sr. No. | Equivalent (New) Subject                       |
|--------|-------------------------------------|---------|--|
| 1      | Strength of Material                | 1       | Strength of Material                           |
| 2      | Surveying-I                         | 2       | Surveying-I                                    |
| 3      | Building Construction and Materials | 3       | Building Construction Techniques and Materials |
| 4      | Concrete Technology                 | 4       | Concrete Technology                            |
| 5      | Engineering Mathematics -III        | 5       | Engineering Mathematics –III                   |

**SEMESTER-IV**

| Sr. No | Old Syllabus (2005-06)      | Sr. No. | Equivalent (New) Subject    |
|--------|-----------------------------|---------|-----------------------------|
| 1      | Theory of Structures-I      | 1       | Theory of Structures-I      |
| 2      | Surveying-II                | 2       | Surveying-II                |
| 3      | Building Design and Drawing | 3       | Building Design and Drawing |
| 4      | Fluid Mechanics-I           | 4       | Fluid Mechanics-I           |
| 5      | Engineering Geology         | 5       | Engineering Geology         |