

# गोंय विद्यापीठ

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## Goa University

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(Accredited by NAAC)

GU/Acad –PG/BoS -NEP/2024/543

Date: 24.09.2024

### CIRCULAR

Ref. No.: GU/Acad –PG/BoS -NEP/2024/507 dated 12.09.2024

In supersession to the above referred Circular the Syllabus of Semesters I and II of the **Bachelor of Engineering in Mechanical Engineering** Programme approved by the Standing Committee of the Academic Council in its meeting held on 06<sup>th</sup>, 07<sup>th</sup> and 21<sup>st</sup> March 2024 is attached with following changes:

- The Course Title for the Course SEC-145 shall be read as “Engineering Drawing and Design Project” in the Syllabus.
- Revised Course Codes for Semester II.

The Dean, Faculty of Engineering and Principals of affiliated Colleges offering the **Bachelor of Engineering in Mechanical Engineering** Programme are requested to take note of the above and bring the contents of the Circular to the notice of all concerned.

ASHWIN VYAS  
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ASHWIN VYAS  
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Date: 2024.09.24  
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(Ashwin V. Lawande)

Deputy Registrar – Academic

To,

1. The Dean, Faculty of Engineering, Goa University.
2. The Principals of affiliated Engineering Colleges.

Copy to,

1. The Director, Directorate of Technical Education, Govt. of Goa
2. The Chairperson, BoS in Mechanical Engineering.
3. The Controller of Examinations, Goa University.
4. The Assistant Registrar, Prof. Examinations, Goa University.
5. Directorate of Internal Quality Assurance, Goa University for uploading the Syllabus on the University website.

**MECHANICAL ENGINEERING PROGRAMME AND  
MECHANICAL AND AUTOMATION ENGINEERING (AY 2024-25)**

| <b>SEMESTER - I</b> |                        |                    |                                              |           |          |          |                |
|---------------------|------------------------|--------------------|----------------------------------------------|-----------|----------|----------|----------------|
| <b>Sr. No</b>       | <b>Course Category</b> | <b>Course Code</b> | <b>Title of the Course</b>                   | <b>L</b>  | <b>T</b> | <b>P</b> | <b>Credits</b> |
| <b>1.</b>           | <b>Major</b>           | <b>MEC-100</b>     | Fundamentals of Mechanical Engineering       | <b>3</b>  | <b>0</b> | <b>0</b> | <b>3</b>       |
|                     |                        | <b>MEC-101</b>     | Fundamentals of Mechanical Engineering Lab   | <b>0</b>  | <b>0</b> | <b>1</b> | <b>1</b>       |
| <b>2.</b>           | <b>Minor</b>           | <b>CIV-111</b>     | Basics of Civil Engineering                  | <b>3</b>  | <b>0</b> | <b>0</b> | <b>3</b>       |
|                     |                        | <b>CIV-112</b>     | Basics of Civil Engineering Lab              | <b>0</b>  | <b>0</b> | <b>1</b> | <b>1</b>       |
|                     |                        | <b>OR</b>          |                                              |           |          |          |                |
|                     |                        | <b>SHM-111</b>     | Biology for Engineers                        | <b>3</b>  | <b>0</b> | <b>0</b> | <b>3</b>       |
|                     |                        | <b>SHM-112</b>     | Biology for Engineers Lab                    | <b>0</b>  | <b>0</b> | <b>1</b> | <b>1</b>       |
| <b>3.</b>           | <b>MC</b>              | <b>SHM-132</b>     | Applied Physics                              | <b>2</b>  | <b>0</b> | <b>0</b> | <b>2</b>       |
|                     |                        | <b>SHM-133</b>     | Applied Physics Lab                          | <b>0</b>  | <b>0</b> | <b>1</b> | <b>1</b>       |
| <b>4.</b>           | <b>AEC</b>             | <b>AEC-153</b>     | Communication & Technical Writing            | <b>2</b>  | <b>1</b> | <b>0</b> | <b>3</b>       |
| <b>5.</b>           | <b>VAC</b>             | <b>VAC-158</b>     | Environmental Science and Sustainability     | <b>2</b>  | <b>0</b> | <b>0</b> | <b>2</b>       |
|                     |                        | <b>VAC-159</b>     | Environmental Science and Sustainability Lab | <b>0</b>  | <b>0</b> | <b>1</b> | <b>1</b>       |
| <b>6.</b>           | <b>SEC</b>             | <b>SEC-145</b>     | Engineering Drawing and Design Project       | <b>0</b>  | <b>0</b> | <b>3</b> | <b>3</b>       |
| <b>Total</b>        |                        |                    |                                              | <b>12</b> | <b>1</b> | <b>7</b> | <b>20</b>      |

| <b>SEMESTER - II</b> |                        |                    |                                                          |           |          |          |                |
|----------------------|------------------------|--------------------|----------------------------------------------------------|-----------|----------|----------|----------------|
| <b>Sr. No</b>        | <b>Course Category</b> | <b>Course Code</b> | <b>Title of the Course</b>                               | <b>L</b>  | <b>T</b> | <b>P</b> | <b>Credits</b> |
| <b>1.</b>            | <b>Major</b>           | <b>EEL-100</b>     | Fundamentals of Electrical & Electronics Engineering     | <b>3</b>  | <b>0</b> | <b>0</b> | <b>3</b>       |
|                      |                        | <b>EEL-101</b>     | Fundamentals of Electrical & Electronics Engineering Lab | <b>0</b>  | <b>0</b> | <b>1</b> | <b>1</b>       |
| <b>2.</b>            | <b>Minor</b>           | <b>ITH-111</b>     | Basics of Computing using Python                         | <b>3</b>  | <b>0</b> | <b>0</b> | <b>3</b>       |
|                      |                        | <b>ITH-112</b>     | Basics of Computing using Python Lab                     | <b>0</b>  | <b>0</b> | <b>1</b> | <b>1</b>       |
|                      |                        | <b>OR</b>          |                                                          |           |          |          |                |
|                      |                        | <b>SHM-113</b>     | Engineering Chemistry                                    | <b>3</b>  | <b>0</b> | <b>0</b> | <b>3</b>       |
|                      |                        | <b>SHM-114</b>     | Engineering Chemistry Lab                                | <b>0</b>  | <b>0</b> | <b>1</b> | <b>1</b>       |
| <b>3.</b>            | <b>MC</b>              | <b>SHM-134</b>     | Applied Mathematics - I                                  | <b>2</b>  | <b>1</b> | <b>0</b> | <b>3</b>       |
| <b>4.</b>            | <b>AEC</b>             | <b>AEC-151</b>     | Creative Thinking & Innovation                           | <b>2</b>  | <b>0</b> | <b>0</b> | <b>2</b>       |
|                      |                        | <b>AEC-152</b>     | Creative Thinking & Innovation Lab                       | <b>0</b>  | <b>0</b> | <b>1</b> | <b>1</b>       |
| <b>5.</b>            | <b>VAC</b>             | <b>VAC-156</b>     | Indian Knowledge System                                  | <b>2</b>  | <b>0</b> | <b>0</b> | <b>2</b>       |
|                      |                        | <b>VAC-157</b>     | Indian Knowledge System Lab                              | <b>0</b>  | <b>0</b> | <b>1</b> | <b>1</b>       |
| <b>6.</b>            | <b>SEC</b>             | <b>SEC-141</b>     | Civil and Mechanical Workshop                            | <b>0</b>  | <b>0</b> | <b>3</b> | <b>3</b>       |
| <b>Total</b>         |                        |                    |                                                          | <b>12</b> | <b>1</b> | <b>7</b> | <b>20</b>      |