

**SGGS INSTITUTE OF ENGINEERING AND TECHNOLOGY, NANDED**  
**Department of Mechanical Engineering**  
**SGGS Equivalent Course List with SWAYAM-NPTEL Courses**

**SY B.Tech.**

**Academic year 2020-21**

| Semester III (Second Year) |                       |  |  |            |
|----------------------------|-----------------------|--|--|------------|
| Course Code                | Course Title at SGGS  | Equivalent Course from SWAYAM-NPTEL  | % Percentage similarity in Content of Syllabus | Remark     |
| PCC-ME201                  | Strength of Materials | <b>Mechanics of Materials</b><br>By Prof. Saravanan U   IIT Madras   | 75   | Equivalent |
| PCC-ME202                  | Thermodynamics        | <b>Concepts of Thermodynamics</b><br>By Prof. Suman Chakraborty, Prof. Aditya Bandopadhyay   IIT Kharagpur | 80   | Equivalent |

**T.Y. B. Tech. (Mechanical)**

**Academic year 2020-21**

| Semester V (Third Year) |                      |   |  |            |
|-------------------------|----------------------|---|--|------------|
| Course Code             | Course Title at SGGS | Equivalent Course from SWAYAM-NPTEL   | % Percentage similarity in Content of Syllabus | Remark     |
| PCC-ME301               | Heat Transfer        | Instructor: Prof. Sunando DasGupta, IIT Kharagpur, Chemical Engineering Department        | 95   | Equivalent |
|                         |                      | Instructor: Prof. Ganesh Viswanathan, IIT Bombay, Chemical Engineering Department         | 95   | Equivalent |
|                         |                      | <b>Instructor:</b> Prof. S. Chakraborty, IIT Kharagpur, Mechanical Engineering Department | 80   | Equivalent |

| Semester V (Third Year)   |                             |  |                                     |                       |            |
|---------------------------|-----------------------------|--|-------------------------------------|-----------------------|------------|
| Course Code               | Course Title at SGGS        | Equivalent Course from SWAYAM-NPTEL  | % Similarity in Content of Syllabus | Percentage in Content | Remark     |
| PEC-ME306<br>(Elective-I) | Product Design Engineering  | 1. Product Design and Development<br>By Prof. Inderdeep Singh   IIT Roorkee                              | 60                                  |                       | Equivalent |
| PEC-ME307<br>(Elective-I) | Advanced Welding Techniques | Advances in welding and joining technologies<br>SWAYAM ID- noc20-me65<br>Prof. Swarup Bag   IIT Guwahati | 50                                  |                       | Equivalent |

***B. Tech. Final Year (Mechanical)***  
***Academic year 2020-21***

| Semester VII (Final Year)   |                                     |  |                                     |                       |            |
|---|-------------------------------------|--|-------------------------------------|-----------------------|------------|
| Course Code   | Course Title at SGGS                | Equivalent Course from SWAYAM-NPTEL  | % Similarity in Content of Syllabus | Percentage in Content | Remark     |
| ME403   | Operations Research and Management  | <b>Operations Research</b><br>By Professor Bibhas C. Giri   Jadavpur University                      | 100                                 |                       | Equivalent |
| <b>Elective-IV and Elective-V (Choose any two from the following)</b> |                                     |  |                                     |                       |            |
| ME409   | Pressure Vessel Design              | --NA--   |                                     |                       |            |
| ME411   | Quality and Reliability Engineering | Quality Engineering & Management<br>By Dr. N.Venkateshwarlu   Indira Gandhi National Open University | 70                                  |                       | Equivalent |
| ME415   | Robotics                            | Robotics<br>SWAYAM ID-noc20-me56<br>By Prof. D. K. Pratihari (IIT Kharagpur)                         | 70                                  |                       | Equivalent |

Head ,  
Mechanical Engineering