

|  |  |   |   |   |   |               |   |   |   |   |   |   |
|--|--|---|---|---|---|---------------|---|---|---|---|---|---|
| Course Number and Name   |  |   |   |   |   |               |   |   |   |   |   |   |
| <b>BME103 - BASIC MECHANICAL ENGINEERING</b>   |  |   |   |   |   |               |   |   |   |   |   |   |
| Credits and Contact Hours  |  |   |   |   |   |               |   |   |   |   |   |   |
| <b>3 &amp; 45</b>  |  |   |   |   |   |               |   |   |   |   |   |   |
| Course Coordinator's Name  |  |   |   |   |   |               |   |   |   |   |   |   |
| Mr.Karthick  |  |   |   |   |   |               |   |   |   |   |   |   |
| Course Objective   |  |   |   |   |   |               |   |   |   |   |   |   |
| <ul style="list-style-type: none"> <li>The program educational objectives (PEOs) for the mechanical-engineering program are to educate graduates who will be ethical, productive, and contributing members of society.</li> <li>The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context</li> <li>The ability to apply principles of engineering, basic science, and mathematics to design and realize physical systems, components, or processes</li> </ul> |  |   |   |   |   |               |   |   |   |   |   |   |
| Prerequisites  |  |   |   |   |   | Co-requisites |   |   |   |   |   |   |
| +2 Level Maths & Physical Science  |  |   |   |   |   | NIL           |   |   |   |   |   |   |
| required, elective, or selected elective (as per Table 5-1)  |  |   |   |   |   |               |   |   |   |   |   |   |
| Course Outcomes (COs)  |  |   |   |   |   |               |   |   |   |   |   |   |
| CO1  | an ability to apply knowledge of mathematics   |   |   |   |   |               |   |   |   |   |   |   |
| CO2  | an ability to apply knowledge of science, and engineering                            |   |   |   |   |               |   |   |   |   |   |   |
| CO3  | Ability to design and conduct experiments, as well as to analyze and interpret data. |   |   |   |   |               |   |   |   |   |   |   |
| CO4  | an ability to function on multi-disciplinary teams                                   |   |   |   |   |               |   |   |   |   |   |   |
| CO5  | To provide basic Knowledge of basic manufacturing process.                           |   |   |   |   |               |   |   |   |   |   |   |
| CO6  | ability to identify, formulate, and solve engineering problems                       |   |   |   |   |               |   |   |   |   |   |   |
| Student Outcomes (SOs) from Criterion 3 covered by this Course   |  |   |   |   |   |               |   |   |   |   |   |   |
|  | COs/SOs  | a | b | c | d | e             | f | g | h | i | j | k |
|  | CO1  | M | M | M | H | M             |   | M |   |   | L | L |
|  | CO2  | H | M | M | H | H             |   | M |   |   | L | L |
|  | CO3  | H | M |   | H | H             |   | M |   |   | L | L |
|  | CO4  | H | M |   | H | H             |   | M |   |   | L | L |
|  | CO5  | H | M | M | H | H             |   | M |   |   | L | L |
|  | CO6  | H |   |   | H | H             |   | M |   |   | L | L |