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| Course Number and Name | | | | | | | | | | | | |
| BEE053 & Power System Protection and Switchgear | | | | | | | | | | | | |
| Credits and Contact Hours | | | | | | | | | | | | |
| 3 & 45 | | | | | | | | | | | | |
| Course Coordinator's Name | | | | | | | | | | | | |
| Mr.D.Purushothaman | | | | | | | | | | | | |
| Course Description | | | | | | | | | | | | |
| To develop an ability and skill to design the feasible protection systems needed for each main part of a power system in students. | | | | | | | | | | | | |
| Prerequisites | | | | | | | Co-requisites | | | | | |
| Transmission & Distribution, Power System Analysis | | | | | | | Nil | | | | | |
| required, elective, or selected elective (as per Table 5-1) | | | | | | | | | | | | |
| Required | | | | | | | | | | | | |
| Course Outcomes (COs) | | | | | | | | | | | | |
| CO1: Understand the basic concepts of power system protection and relays. | | | | | | | | | | | | |
| CO2: Design the relevant protection systems for the main elements of a power system. | | | | | | | | | | | | |
| CO3: Understand the theory of arcing phenomenon. | | | | | | | | | | | | |
| CO4: Analyze the purpose and working principle of different circuit breakers and tests. | | | | | | | | | | | | |
| CO5: Understand the overvoltage protection methods. | | | | | | | | | | | | |
| Student Outcomes (SOs) from Criterion 3 covered by this Course | | | | | | | | | | | | |
| COs/POs | a | b | c | d | e | f | g | h | i | j | k | l |
| CO1 | H | M | H | H | M | L | M | L | H | M | L | M |
| CO2 | H | M | H | H | M | L | M | L | H | M | L | M |
| CO3 | H | M | H | H | M | M | M | L | H | M | L | M |
| CO4 | H | M | H | H | M | M | M | M | H | M | L | M |
| CO5 | H | M | H | H | M | M | M | M | H | M | L | M |