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| Course Number and Name | | | | | | | | | | | | |
| BCE302 - SURVEYING – I | | | | | | | | | | | | |
| Credits and Contact Hours | | | | | | | | | | | | |
| 3 & 45 | | | | | | | | | | | | |
| Course Coordinator's Name | | | | | | | | | | | | |
| Ms.A.Ambica | | | | | | | | | | | | |
| Course Objective | | | | | | | | | | | | |
| <ul style="list-style-type: none"> To introduce the principles of various surveying methods and applications to Civil Engineering projects. | | | | | | | | | | | | |
| Prerequisites | | | | | | Co-requisites | | | | | | |
| Basic Mechanical Engineering | | | | | | NIL | | | | | | |
| required, elective, or selected elective (as per Table 5-1) | | | | | | | | | | | | |
| Course Outcomes (COs) | | | | | | | | | | | | |
| CO1 | Carry out preliminary surveying in the field of civil engineering applications | | | | | | | | | | | |
| CO2 | Plan a survey, taking accurate measurements, field booking, plotting and adjustment of traverse using various conventional instruments | | | | | | | | | | | |
| CO3 | Plan a survey for applications such as road alignment and height of building. | | | | | | | | | | | |
| CO4 | Take horizontal and vertical angles precisely by an optical distance measurement using theodolite. | | | | | | | | | | | |
| CO5 | Set out curves, buildings, culverts and tunnels | | | | | | | | | | | |
| Student Outcomes (SOs) from Criterion 3 covered by this Course | | | | | | | | | | | | |
| COs/SOs | a | b | c | d | e | f | g | h | i | j | k | |
| CO1 | H | M | | M | H | | | | | | | |
| CO2 | | H | | | M | | | | | | | |
| CO3 | H | | | | H | | | | | | | |
| CO4 | H | | | M | | | | | | | | |
| CO5 | | | | | M | | | | | | | |