

|  |  |   |   |   |   |               |   |   |   |   |   |  |
|--|--|---|---|---|---|---------------|---|---|---|---|---|--|
| Course Number and Name   |  |   |   |   |   |               |   |   |   |   |   |  |
| <b>BCE602 - REINFORCED CONCRETE STRUCTURES – II</b>  |  |   |   |   |   |               |   |   |   |   |   |  |
| Credits and Contact Hours  |  |   |   |   |   |               |   |   |   |   |   |  |
| <b>4 &amp; 60</b>  |  |   |   |   |   |               |   |   |   |   |   |  |
| Course Coordinator's Name  |  |   |   |   |   |               |   |   |   |   |   |  |
| Ms.R.J.Rinu Isah   |  |   |   |   |   |               |   |   |   |   |   |  |
| Course Objective   |  |   |   |   |   |               |   |   |   |   |   |  |
| <ul style="list-style-type: none"> <li>To give an exposure to the design of continuous beams, slabs, staircases, walls and bridge structures and to introduce yield line theory</li> </ul> |  |   |   |   |   |               |   |   |   |   |   |  |
| Prerequisites  |  |   |   |   |   | Co-requisites |   |   |   |   |   |  |
| Reinforced Concrete Structures – I   |  |   |   |   |   | NIL           |   |   |   |   |   |  |
| required, elective, or selected elective (as per Table 5-1)  |  |   |   |   |   |               |   |   |   |   |   |  |
| Course Outcomes (COs)  |  |   |   |   |   |               |   |   |   |   |   |  |
| CO1  | Design counter-fort and cantilever retaining walls                           |   |   |   |   |               |   |   |   |   |   |  |
| CO2  | Design underground and overhead water tanks                                  |   |   |   |   |               |   |   |   |   |   |  |
| CO3  | Design bridges and flat slab   |   |   |   |   |               |   |   |   |   |   |  |
| CO4  | Different methods and systems – uniform and non-uniform pre-stressing design |   |   |   |   |               |   |   |   |   |   |  |
| CO5  | Design Slab using yield line theory  |   |   |   |   |               |   |   |   |   |   |  |
| 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 |   |               |   |   |   |   |   |  |
| CO2  |  |   | H | M |   |               |   |   |   |   |   |  |
| CO3  |  |   | H | M |   |               |   |   |   |   |   |  |
| CO4  |  |   | H | M |   |               |   |   |   |   |   |  |
| CO5  |  |   | H | M |   |               |   |   |   |   |   |  |