**Relationship between the Course Outcomes (COs) and Program Outcomes (POs)**

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| **Mapping between COs and POs** | | |
|  | **Course Outcomes (COs)** | **Mapped Program Outcomes** |
| CO1 | Develop the idea of basic concepts of abstract algebra and  geometrical idea of vector analysis with real world applications. | **PO2, PO3, PO4, PO12** |
| CO2 | Explain the fundamental concepts of Differential Calculus and  apply these topics in real life problems | **PO2, PO3, PO4, PO12** |
| CO3 | Illustrate the fundamental concepts of Integral Calculus and apply these topics in real life problems. | **PO2, PO3, PO4, PO12** |
| CO4 | Understand and apply the various solution procedures of  Ordinary Differential equations in engineering problems. | **PO2, PO3, PO4, PO12** |

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|  |  | Engineering Knowledge | Problem analysis | Design/development of solutions | Conduct investigations of complex problems | Modern tool usage | The engineer and society | Environment and sustainability | Ethics | Individual or team work | Communication | Project management and finance | Life-long Learning | Adequate strong skills in learning new programming… | The ability to understand the evolutionary changes in … | Ability to analyze the impact of computer science and … |
| Course Code | Course Title | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 | PO 11 | PO 12 | PSO 1 | PSO 2 | PSO 3 |
| MTH11501 | Engineering Mathematics- I | - | 3 | 3 | 3 | - | - | - | - | - | - | - | 3 | - | - | - |