| **DEPARTMENT OF MATHEMATICS** **B.Sc.** **2020-2021****SEMESTER - I** |
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| **PAPER-I DIFFERENTIAL EQUATIONS** |
|  | **PO-1** | **PO-2** | **PO-3** | **PO-4** | **PO-5** | **PO-6** | **PO-7** |
| **CO-1** |  **–**  | **–** | **–** | **–** | **–** | ✔ | **–** |
| **CO-2** | **–** | **–** | **–** | **–** | **–** | **–**  | ✔ |
| **CO-3** | **–** | **–** | ✔ | **–** | **–** | **–** | **–** |
| **CO-4** | ✔ | **–** |  **–** | **–** | **–** | ✔ | **–** |
| **CO-5** | **–** | **–** | **–** | **–** | **–** | **–** | ✔ |

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| **PAPER-II THREE DIMENSIONAL ANALYTICAL SOLID GEOMETRY** |
|  | **PO-1** | **PO-2** | **PO-3** | **PO-4** | **PO-5** | **PO-6** | **PO-7** |
| **CO-1** | ✔ | **–**  | **–** | **–** | **–** | **–** | **–** |
| **CO-2** | **–** | **–** | ✔ |  **–** | **–** |   **–** | **–** |
| **CO-3** | **–** | **–** | ✔ | **–** | **–** | **–**  | **–** |
| **CO-4** | **–** | **–** | **–** | **–** | ✔ | **–** |  **–**  |
| **CO-5** | **–** | **–** | **–** | **–** | **–** | ✔ |  **–** |

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| **PAPER-III ABSTRACT ALGEBRA** |
|  | **PO-1** | **PO-2** | **PO-3** | **PO-4** | **PO-5** | **PO-6** | **PO-7** |
| **CO-1** | ✔ | **–** | **–** | **–** | **–** | **–** | **–** |
| **CO-2** | **–** | **–** | **–** | **–** | **–** | **–** | ✔ |
| **CO-3** | ✔ | **–** | **–** | **–** | **–** | **–** | **–** |
| **CO-4** | ✔ | **–** | **–** | **–** | **–** | **–** | **–** |
| **CO-5** | **–** | **–** | **–** | **–** | **–** | **–** | ✔ |
| **CO-6** | ✔ | **–** | **–** | **–** | **–** | **–** | **–** |

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| **PAPER-IV MATHEMATICS REAL ANALYSIS** |
|  | **PO-1** | **PO-2** | **PO-3** | **PO-4** | **PO-5** | **PO-6** | **PO-7** |
| **CO-1** | ✔ | **–** | **–** | **–** | **–** | **–** | **–** |
| **CO-2** | ✔ | **–** | **–** | **–** | **–** | **–** | **–** |
| **CO-3** | ✔ | **–** | **–** | **–** | **–** | **–** | **–** |
| **CO-4** | **–** | **–** | **–** | **–** | **–** | **–** | ✔ |
| **CO-5** | **–** | ✔ | **–** | **–** | **–** | **–** | **–** |

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| **PAPER-V LINEAR ALGEBRA** |
|  | **PO-1** | **PO-2** | **PO-3** | **PO-4** | **PO-5** | **PO-6** | **PO-7** |
| **CO-1** | **–** | **–** | ✔ | **–** | **–** | **–** | **–** |
| **CO-2** | **–** | ✔ | **–** | **–** | **–** | **–** | **–** |
| **CO-3** | **–** | ✔ | **–** | **–** | **–** | **–** | **–** |
| **CO-4** | **–** | **–** | **–** | **–** | **–** | **–** | ✔ |
| **CO-5** | ✔ | **–** | **–** | **–** | **–** | **–** | **–** |

| **DEPARTMENT OF MATHEMATICS** **B.Sc.** **2020-2021****SEMESTER - V** |
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| **PAPER-VI A NUMERICAL METHODS** |
|  | **PO-1** | **PO-2** | **PO-3** | **PO-4** | **PO-5** | **PO-6** | **PO-7** |
| **CO-1** | ✔ | **–** | **–** | **–** | **–** | **–** | **–** |
| **CO-2** | **–** | ✔ | **–** | **–** | **–** | **–** | **–** |
| **CO-3** | ✔ | **–** | **–** | **–** | **–** | **–** | **–** |
| **CO-4** | **–** | ✔ | **–** | **–** | **–** | **–** | **–** |
| **CO-5** | **–** | **–** | **–** | **–** | **–** | **–** | ✔ |

| **DEPARTMENT OF MATHEMATICS** **B.Sc.** **2020-2021****SEMESTER - V** |
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| **PAPER-VII A MATHEMATICAL SPECIAL FUNCTIONS** |
|  | **PO-1** | **PO-2** | **PO-3** | **PO-4** | **PO-5** | **PO-6** | **PO-7** |
| **CO-1** | ✔ | **–** | **–** | **–** | **–** | **–** | **–** |
| **CO-2** | ✔ | **–** | **–** | **–** | **–** | **–** | **–** |
| **CO-3** | ✔ | **–** | **–** | **–** | **–** | **–** | **–** |
| **CO-4** | **–** | ✔ | **–** | **–** | **–** | **–** | **–** |
| **CO-5** | **–** | **–** | **–** | **–** | **–** | **–** | ✔ |