| **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** | ✔ | **–** | **–** | **–** | **–** | **–** | **–** |

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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** | **–** | **–** | **–** | **–** | **–** | **–** | ✔ |

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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** | **–** | **–** | **–** | **–** | **–** | **–** | ✔ |