

Photonics Specialisation

SEMESTER - 4

SUBJECTS	Minor -1 Marks	Mid - Exams	Minor - 2 Marks	End - Exams
Optical System Design	10	30	10	50
Optical Instruments	10	30	10	50
Communication Systems	10	30	10	50
Elective - I	10	30	10	50
Elective - II	10	30	10	50
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<p>Elective – I and II (for Photonics Specialization)</p> <p>1. Non Linear Optics</p> <p>2. Lasers and Applications</p> <p>3. Adaptive Optics</p> <p>4. Polarization Optics</p> <p>5. Data Acquisition Systems</p> <p>6. Data Converters and Data Loggers</p>
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SEMESTER - 5

SUBJECTS	Minor -1 Marks	Mid - Exams	Minor - 2 Marks	End - Exams
Opto Electronic Sensing and MOEMS	10	30	10	50
Fourier Optics & Holography	10	30	10	50
Elective - III	10	30	10	50
Elective - IV	10	30	10	50
Elective - V	10	30	10	50
Elective - VI	10	30	10	50

<p>Electives III, IV, V and VI (for Photonics Specialization)</p> <p>1. Fiber Optic Communication</p> <p>2. Optical Element Production & Testing</p> <p>3. Biophotonics</p> <p>4. IR Optics & Thin Films</p> <p>5. Nano Photonics</p> <p>6. Integrated Optics</p> <p>7. Solar Energy Systems</p> <p>8. Display Technologies</p> <p>9. Medical Instrumentation</p> <p>10. Silicon Photonics</p> <p>11. New Lasing Materials</p> <p>12. Image Processing</p>
