# Department of Physics & Materials Science
## Request for Award of Minor

<table>
<thead>
<tr>
<th>Name of Student: ______________________________</th>
<th>Student No.: __________________ ____</th>
<th>Programme: _________________________</th>
<th>Cohort: __________</th>
</tr>
</thead>
</table>

### Minor in Applied Optics

**Any 15 credit units of the following:**
- AP3204 Waves & Optics
- AP3280 Geometrical and Instrumental Optics
- AP3281 Optical Fabrication and Testing
- AP4254 Fundamentals of Laser Optics
- AP4255 Optoelectronic Devices and Systems
- AP4263 Optical Design
- AP4264 Instrumentation Systems for Remote Sensing and Atmospheric Monitoring
- AP4273 Special Topics in Physics (in the applied optics)
- AP4280 Advanced Optics Laboratory
- AP4282 Physical Optics

### Minor in Environmental Physics

**Any 15 credit units of the following:**
- AP2250 Earth Systems
- AP3253 Energy, Technology and Environment
- AP3206 Nuclear Radiation & Detection
- AP3267 Principle of Noise Pollution
- AP4257 Physics of the Atmosphere
- AP4258 Atmospheric Circulation Systems and Climate
- AP4260 Air Pollution
- AP4264 Instrumentation Systems for Remote Sensing and Atmospheric Monitoring
- AP4268 Environmental Modelling
- AP4271 Environmental Radiation
- AP4272 Experimental Techniques for Environmental Radiation
- AP4273 Special Topics in Physics (in the environmental physics)

### Minor in Physics

**Required courses (6 credit units):**
- AP3202 Modern Physics
- AP3251 Quantum Physics

**Any 9 credit units of the following:**
- AP2212 Measurement & Instrumentation
- AP2190/AP2290 Mechanics/Classical Mechanics
- AP2191/AP2291 Electricity and Magnetism
- AP3204 Waves & Optics
- AP3205 Electromagnetism
- AP3172/AP3272 Electronic Properties of Solids/Introduction to Solid State Physics
- AP3190/AP3290 Thermodynamics of Materials/Thermodynamics
- AP3206 Nuclear Radiation & Detection
- AP3208 Instrumentation Systems
- AP3245 Design & Manufacturing Project
- AP3267 Principle of Noise Pollution
- AP3280 Geometrical and Instrumental Optics
- AP3281 Optical Fabrication and Testing
- AP4254 Fundamentals of Laser Optics
- AP4255 Optoelectronic Devices and Systems
- AP4257 Physics of the Atmosphere
- AP4258 Atmospheric Circulation Systems and Climate
- AP4260 Air Pollution
- AP4263 Optical Design
- AP4264 Instrumentation Systems for Remote Sensing and Atmospheric Monitoring
- AP4265 Semiconductor Physics & Devices
- AP4268 Environmental Modelling
- AP4271 Environmental Radiation
- AP4272 Experimental Techniques for Environmental Radiation
- AP4273 Special Topics in Physics
- AP4280 Advanced Optics Laboratory
- AP4282 Physical Optics

### Minor in Materials Engineering

**Any 15 credit units of the following:**
- AP2102 Introduction to Materials Engineering
- AP2104 Mechanics of Solids
- AP3109 Kinetic Processes in Engineering Materials
- AP3110 Deformation and Fracture
- AP3111 Ceramic Processing and Microstructure Development
- AP3113 Polymer Engineering
- AP3170 Materials Testing Techniques (2 credit units)
- AP3171 Materials Characterization Techniques
- AP3172/AP3272 Electronic Properties of Solids/Introduction to Solid State Physics
- AP3190/AP3290 Thermodynamics of Materials/Thermodynamics
- AP4114 Stress Analysis
- AP4115 Computer Aided Engineering
- AP4118 Design with Composite and Nanocomposite Materials
- AP4120 Microelectronic Materials and Processing
- AP4121 Thin Film Technology and Nanocrystalline Coatings
- AP4124 Failure Analysis and Case Studies
- AP4126 Electroceramics
- AP4170 Environmental Degradation
- AP4171 Electronic Packaging and Materials
- AP4172 Simulation and Modelling in Materials Science
- AP4173 Biomedical Materials: From Engineering To Clinical Applications
- AP4307 Building Materials
- AP4714 Special Topics in Materials Engineering and Nanotechnology

Students are required to submit full set of application materials including:
- this application form together with your online grade display downloaded from AIMS as supporting documents.

<table>
<thead>
<tr>
<th>Applicants’ Signature: __________________________</th>
<th>Date: ___________________________</th>
<th>Mobile Phone No.: __________________________</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Approved by: ___________________________ (Programme Leader)</th>
<th>Date: ___________________________</th>
</tr>
</thead>
</table>