

T K M College Of Arts Science (142)

Course Basket of Physics

| Category | Course Code | Course Name |
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| Discipline: FYUGP Physics | | |
| Semester: 1 | | |
| DSC | UK1DSCPHY100 | Foundation Course in Physics-I |
| DSC | UK1DSCPHY101 | Principles of Dynamics |
| DSC | UK1DSCPHY102 | Properties of Solids |
| DSC | UK1DSCPHY103 | Introduction to Mechanics and Energy resources |
| MDC | UK1MDCPHY103 | Physics in Arts and Sports |
| Semester: 2 | | |
| DSC | UK2DSCPHY100 | Foundation Course in Physics-II |
| DSC | UK2DSCPHY101 | Electricity, Magnetism and Acoustics |
| DSC | UK2DSCPHY102 | Optics and Thermodynamics |
| DSC | UK2DSCPHY103 | Modern Physics |
| MDC | UK2MDCPHY102 | Beyond the Sky |
| Semester: 3 | | |
| DSC | UK3DSCPHY201 | Digital Electronics and Datascience |
| DSC | UK3DSCPHY202 | Solid State Physics and Spectroscopy |
| DSE | UK3DSEPHY202 | Basics of Nanoscience and Nanotechnology |
| DSE | UK3DSEPHY204 | Introduction to medical physics |
| VAC | UK3VACPHY201 | Introduction to laboratory safety measurements |
| Semester: 4 | | |
| DSC | UK4DSCPHY200 | Classical Dynamics (Mandatory) |
| DSC | UK4DSCPHY201 | Electromagnetics and Transient Currents (Mandatory) |
| DSE | UK4DSEPHY202 | Synthesis of Nanomaterials |
| DSE | UK4DSEPHY204 | Physics of Medical Diagnostics |
| INT | UK4INTPHY200 | Internship |
| SEC | UK4SECPHY200 | Basic Instrumentation Skills |
| VAC | UK4VACPHY200 | Introductory course on physics in financial market |
| VAC | UK4VACPHY201 | Research and Publication Ethics |
| Semester: 5 | | |
| DSC | UK5DSCPHY300 | Optics (Mandatory) |

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| DSC | UK5DSCPHY301 | Quantum Mechanics - I (Mandatory) |
| DSC | UK5DSCPHY302 | Thermodynamics & Statistical Mechanics (Mandatory) |
| DSE | UK5DSEPHY302 | Characterization of Nano Materials |
| DSE | UK5DSEPHY304 | Physical Aspects of Therapeutics |
| SEC | UK5SECPHY302 | Programming in Python |
| Semester: 6 | | |
| DSC | UK6DSCPHY300 | Atomic & Molecular Physics (Mandatory) |
| DSC | UK6DSCPHY301 | Nuclear & Particle Physics (Mandatory) |
| DSC | UK6DSCPHY302 | Solid State Physics (Mandatory) |
| DSE | UK6DSEPHY302 | Nanotechnology For Energy Conversion and Storage Devices |
| DSE | UK6DSEPHY304 | Practical Medical Physics |
| SEC | UK6SECPHY302 | Scientific writing |
| Semester: 7 | | |
| DSC | UK7DSCPHY400 | Advanced Mathematical Physics |
| DSC | UK7DSCPHY401 | Quantum Mechanics-II |
| DSE | UK7DSEPHY401 | Environmental Sustainability of Nanomaterials |
| Semester: 8 | | |
| CIP | UK8CIPPHY400 | Capstone Internship |
| RPH | UK8RPHPHY400 | Research Project |