


KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, Telangana, INDIA.

 काकतीय प्रौद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६ ०१५ तेलंगाना, भारत
 కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - ౫౦౬ ౦౧౫ తెలంగాణ, భారతదేశము

(An Autonomous Institute under Kakatiya University, Warangal)

(Approved by AICTE, New Delhi; Recognised by UGC under 2(f) & 12(B); Sponsored by EKASILA EDUCATION SOCIETY)

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DEPARTMENT OF PHYSICAL SCIENCES
MINOR IN PHYSICS (MPY) - MINOR CURRICULUM
EQUIVALENT MOOCs - ODD SEMESTER, JULY-DEC 2026, AY 2026-27

No. /HMP/B.Tech./ PS/KITS/2026

Date: 24.07.2026

S. No	MINOR curriculum course Identified by the Dept	Equivalent SWAYAM - MOOC course	ONLINE COURSE LINK	Duration	Credits
Core courses (any 2 to 3 courses)					
1.	U24MPY1001 Energy Materials and Devices	Energy Materials and Devices	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26-ph62	12 weeks	03
2.	U24MPY1002 Quantum Computing	Quantum Field Theory and Quantum Entanglement	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26-ph36	12 weeks	03
3.	U24MPY1003 Sensor Technologies: Physics, Fabrication, and Circuits	NPTEL is not offering these courses in July-Dec 2026			
4.	U24MPY1004 Principles of Lasers and Their Applications	NPTEL is not offering these courses in July-Dec 2026			
5.	U24MPY1005 Nanomaterials	Physics of Nanomaterials	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26-ph56	12 weeks	03
6.	U24MPY1006 Microsensors and Nanosensors	NPTEL is not offering these courses in July-Dec 2026			
Elective courses (any 2 to 4 courses)					
7.	U24MPY1007 Fundamentals of Electromagnetism	NPTEL is not offering these courses in July-Dec 2026			
8.	U24MPY1008 Semiconductor Devices and Circuits	NPTEL is not offering these courses in July-Dec 2026			
9.	U24MPY1009 Solid state physics	Solid State Physics	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26-ph61	12 weeks	03

10.	U24MPY1010 Introduction to Nuclear and Particle Physics	Nuclear Physics and Particle Physics through Experiments	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26ph37	12 weeks	03
11.	U24MPY1011 Classical Electrodynamics	Foundations of Classical Electrodynamics	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26ph59	12 weeks	03
12.	U24MPY1012 Experimental Physics	Experimental Physics I	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26ph60	12 weeks	03
13.	U24MPY1013 Computational Physics	<i>NPTEL is not offering these courses in July-Dec 2026</i>			
14.	U24MPY1014 Quantum Physics	Advanced Quantum Mechanics With Applications	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26ph44	08 weeks	02
15.	U24MPY1015 Smart materials	<i>NPTEL is not offering these courses in July-Dec 2026</i>			
16.	U24MPY1016 Physics of Renewable Energy Systems	Physics of Renewable Energy Systems	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26ph57	12 weeks	03
17.	U24MPY1017 Applied Mechanics	<i>NPTEL is not offering these courses in July-Dec 2026</i>			
18.	U24MPY1018 Magnetism and Superconductivity	Concepts in Magnetism and Superconductivity	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26ph42	08 weeks	02

Sd/-

Dr. K. Rajendra Prasad

Dept. MOOCs Coordinator

Sd/-

Dr. H. Ramesh Babu

Head, Dept. of PS