

K.S. RANGASAMY COLLEGE OF ARTS AND SCIENCE


(Autonomous)
Tiruchengode - 637 215

Department of Physics

BACHELOR OF SCIENCE IN PHYSICS

Local / National / Regional / Global

Course Code	Course Name	NEED				Remarks
		Local	National	Regional	Global	
18UPHM102	Core II: Thermal Physics	✓	✓			This paper given the concepts of heat like temperature measurement and specific heat measurement. Also imparting knowledge on basic laws of thermodynamics and working of heat engines in local and national level.
18UPHM202	Core IV: Optics	✓				This paper provided a good foundation in optics and given knowledge about operating optical instruments.
18UPHM301	Core V: Atomic Physics		✓			The national level knowledge given paper in particularly the basic principle and mass spectrograph, photo electricity and atom models.
18UPHSB301	SBC I: Instrumentation	✓	✓			This course given the knowledge in local and national needs for operate modern electrical and electronic instruments and find faults and test various instrument.
18UPHM401	Core VI: Basic Electronics		✓			Students can develop the home made electronics devices for their national need.
18UPHSB401	SBC II: Laser Physics		✓			This paper offer the working of various LASERS and its applications in national level.


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18UPHM501	Core VII: Electricity and Electromagnetism	✓	✓			This paper offer the electrostatic, magnetosatic charges and its application in local and national needs.
18UPHM502	Core VIII: Solid State Physics				✓	Students can develop the dielectrics and modern engineering materials for their global needs.
18UPHM504	Core X: Electronics and Communication	✓				Students can formulate the communication electronic devices made for their local needs.
18UPHEL501	Elective I: Energy Physics	✓	✓			Students can be able to generate the green energy for their local and national needs.
18UPHM602	Core XII: Nuclear Physics		✓	✓		This course provides the awareness about the nuclear radiations and nuclear power for energy production with environment safety for national and regional needs.
18UPHEL601	Elective II: Physics of Nanoscale				✓	Students can aware the knowledge about the multidisciplinary knowledge in material synthesis, energy, environmental and healthcare applications.
18UPHEL602	Elective II: Biomedical Instrumentation				✓	Students can able to find the healthcare solution through the modern biomedical instruments for global needs of the society.
18UPHSB601	SBC IV: Materials and Processing		✓			Students can find the solution for production of materials processing for national needs of the society.

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Principal

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