



SACRED HEART COLLEGE (AUTONOMOUS)

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Ready for
Every Good Work

A Don Bosco Institution of Higher Education, Founded in 1951 * Affiliated to Thiruvalluvar University, Vellore * Autonomous since 1987

Accredited by NAAC (4th Cycle – under RAF) with CGPA of 3.31 / 4 at 'A+' Grade

M.Sc. Physics

Sem	Subject	Title of the Paper	Ins.Hrs	Credits
I	MC	Mathematical Physics	5	4
	MC	Classical Mechanics and Statistical Mechanics	5	4
	MC	Quantum Mechanics-I	5	4
	MC	General Experiments	5	-
	MC	Electronic Experiments	6	-
	Elective	1. Electronic Devices and Applications 2. Energy & Environmental physics 3. Astrophysics	4	4
II	MC	Electromagnetic Theory	5	4
	MC	Quantum Mechanics-II	5	4
	MC	Electronic Instrumentation Techniques	5	4
	MC	General Experiments	6	6
	MC	Electronic Experiments	5	6
	Elective	1. Microprocessor 8085 and Microcontroller 8051 2. Geophysics 3. Bio Physics	4	4
	SSP	Ultrasonics	-	2*
III	MC	Solid State Physics	5	4
	MC	Atomic and Molecular Spectroscopy	5	4
	MC	C Programming and Research Methodology	5	4
	MC	Advanced General Experiments	5	-
	MC	Microprocessor and C Programming Experiments	5	-
	Elective	1. Nanoscience and Technology 2. Optical Physics 3. Quantum Computational Physics	4	4
	SSP	Communication Electronics	-	2*
	Core	Project	1	-
IV	MC	Materials Science	5	4
	MC	Nuclear and Particle Physics	5	4
	MC	Advanced General Experiments	5	6
	MC	Microprocessor and C Programming Experiments	5	6
	MC	Project	4	5
	Elective	1. Crystal Physics and Non-Linear Optics 2. Reactor Physics 3. Digital signal processing	4	4
		Human Rights	2	1
Total			120	90+4*