COURSE STRUCTURE
POST GRADUATE AND RESEARCH DEPARTMENT OF PHYSICS
CROSS Sallahus M.So. Physics (2018-19 onwards)

C		BCS Syllabus – M.Sc., Physics (	2018-19 01			1	Ma	rks
SEM	P	Title of the paper	S. Code	H/W	C	1	E	T
		Mathematical Physics – I	18PCPH11	6	4		75	100
ì	DSC1		18PCPH12	6	4	_	75	100
		Molecular and Resonance spectroscopy	18PCPH13	6	4	25	75	100
			18PEPH1A	4	4	25	75	100
	DSE-	A) Integrated Electronics B) Nanoscience	18PEPH1B	4		2.5		
	-	Practical I	18PCPH1P1	4	2	40	60	100/2
	P-I	General Physics Experiments – I			2	40	60	100/2
	P-II	Practical II Advanced Electronics Experiments -I	18PCPH1P2	4	1000			
	DSC4		18PCPH21	5	4	-	75	_
	DSC5		18PCPH22	5	4	_	75	100
	DSC6	4.5	18PCPH23	5	4	25	75	100
		A) Microprocessor & Microcontroller	18PEPH2A	4	4	25	75	100
	DSE-2	B) Numerical Methods	18PEPH2B			25	13	100
п	P-III	Practical III	18PCPH2P1	4	2	40	60	100/2
	P – IV	General Physics Experiments – II Practical - IV	18PCPH2P2	4	2	40	60	100/2
	and the same of	Advanced Electronics Experiments -11	18PIPH21	3	3	25	75	100
	IDC-1		18PCPH31	5	4	25	_	100
	DSC7	Electromagnetic theory	18PCPH32	5	4	25	_	100
	DSC9		18PCPH33	5	4	25	_	100
Ш		A) Nonlinear Dynamics	18PEPH3A	201-21 02-9	4	25	-	100
•••	DSE-3	B) Crystal growth & Thin flims	18РЕРНЗВ	4				
	P-V	Practical V Advanced Physics Experiments – I	18PCPH3P1	4	2	40	60	100/2
	P-VI	Practical VI Microprocessor Experiments	18РСРНЗР2	4	2	40	60	100/2
	IDC-2	Digital Electronics	18PIPH31	3	3	25	75	100
		Solid State Physics	18PCPH41	5	4	25	75	100
		Research Methodology	18PCPH42	5	4	25	75	100
	- Contract of the Contract of	Project (P)	18PCPH43	8	8			100
	DSE4	A) Optoelectronics & Lasers	18PEPH4A	- 1	4			
		B) Materials Science	18PEPH4B			25	75	100
		Practical-VII	18PCPH4P1		1	40	) 60	100
	52 5 1	Advanced Physics Experiments - II	.01 01 1141	1		1	1	1.00
	P- VIII	Practical-VIII Numerical methods and C++ Programming	18РСРН4Р2	2 4	1	2 4	0 6	100
		r rogramming	Total	120	0	0	+	220
			Lotai	120	12	4	1	22

DSC - Discipline Specific core 2 DSE - Discipline Specific Elective IDC - Inter Departmental Course

### SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)

### RESEARCH DEPARTMENT OF PHYSICS

### M.Phil. Physics Syllabus

## (Applicable for students admitted in June 2018 and onwards) COURSE STRUCTURE

I SEMESTER			II SEMESTER				
COURSE	H/W	С	COURSE H/W				
Core 1	4	4					
Core 2	4	4					
Project Oriented Elective Course (Theory)	4	4	Project and Viva - Voce	12	12		
TOTAL	12	12	TOTAL	12	12		

### DISTRIBUTION OF HOURS, CREDITS, NO. OF PAPERS, & MARKS

SUBJECT	HOURS	CREDITS	NO. OF PAPERS	MARKS
Core	8	8	2	200
Project Oriented Elective Course (Theory)	4	4	1	100
Project and Viva-Voce	12	12	1	100
TOTAL	24	24	4	400

# TITLE OF THE PAPERS M. PHIL. PHYSICS (2018 - 2021)

(The candidate should select any one of the Area Papers in the first semester related to their proposed topics of research)

SEM	D	TITLE OF THE PAPER	SUB. CODE	H/W	С	MARKS		
	P					I	E	Т
	DSC1	Research and Teaching Methodology	18MCPH11	4	4	25	75	100
	DSC2	Advanced Physics	18MCPH12	4	4	25	75	100
I	DSE	A) Crystal Growth Methods and Characterization Techniques	18МЕРН1А	4	4	25	75	100
	Don	B) Nano Physics	18MEPH1B				, 0	100
		C) Ultrasonic Studies	18MEPH1C		I			
		D) Nonlinear Dynamics	18MEPH1D					
II	D	Project and Viva-Voce	18MDPH21	-	12		100	100
TOTAL						75	325	400