

DEPARTMENT OF PHYSICSPROGRAMME: **B Sc Physics****SEMESTER I**

Course	Paper code	Paper	Hours	Credit
Common Course I	ENG1A01	Litmosphere: The world of literature	4	3
Common Course II	ENG1A02	Functional grammar and communication in English	5	3
Common Course III	ARB1A07	Language Skills in Arabic	4	4
	MAL1A07	Malayalam Sahithyam-1	4	4
Core Course I	PHY1B01	Mechanics -I	2	2
Core Course V		Practical-I	2	*
1st Complementary Course I	MTS1C01	Mathematics -I	4	3
2nd Complementary Course I	CHE1C01	General Chemistry	2	2
2nd Complementary Course V		Practical	2	*
Audit Course	AUDE01	Environmental studies		4

SEMESTER 2

Course	Paper code	Paper	Hours	Credit
Common Course IV	ENG2A03	Readings from the fringes	4	4
Common Course V	ENG2A04	Readings on Kerala	5	4
Common Course VI	ARB2A08	Appreciating Arabic Literature	4	4
	MAL2A08	Malayalam Sahithyam-2	4	4
Core Course II	PHY2B02	Mechanics -II	2	2
Core Course V		Practical-I	2	*
1st Complementary Course II	MTS2C02	Mathematics -2	4	3
2nd Complementary Course II	CHE2C02	Physical Chemistry	2	2
2nd Complementary Course V		Practical	2	*
Audit Course	AUDE02	Disaster Management		4

SEMESTER 3

Course	Paper code	Paper	Hours	Credit
Common Course VII	ENG3A05	Readings on Indian literatures	5	4
Common Course VIII	ARB3A09	Reading Arabic Prose And Poetry	5	4
	MAL3A09	Malayalam Sahithyam-3	5	4
Core Course III	PHY3B03	Electrodynamics-I	3	3
Core Course V		Practical-I	2	*
1st Complementary Course I	MTS3C03	Mathematics -3	5	3
2nd Complementary Course I	CHE3C03	Organic chemistry	3	2
2nd Complementary Course V		Practical	2	*
Audit Course	AUDE03	Human rights or Intellectual property rights or Consumer protection		4

SEMESTER 4

Course	Paper code	Paper	Hours	Credit
Common Course VII	ENG4A06	Songs and Stories of world	5	4
Common Course VIII	ARB4A10	Arabic Literature and Culture	5	4
	MAL4A10	Malayalam Sahityam-4	5	4
Core Course III	PHY4B04	Electrodynamics-II	3	3
Core Course V		Practical-I	2	*
1st Complementary Course I	MTS4C04	Mathematics -4	5	3
2nd Complementary Course I	CHE4C04	Physical and Applied Chemistry	3	2
2nd Complementary Course V		Practical	2	*
Audit Course	AUDE04	Gender studies or Gerontology		4

SEMESTER 5

Course	Paper code	Paper	Hours	Credit
Core Course VI	PHYB06	Computational Physics	3	3
Core Course VII	PHYB07	Quantum Mechanics	3	3
Core Course VIII	PHYB08	Optics	3	3
Core Course IX	PHYB09	Electronics	3	3
Open Course	PHY5D01(1)	Non Conventional Energy sources	3	3
Core Course Practical XV		Practical-II	4	
Core Course Practical XVI		Practical-III	4	
Core Course XVII		Project	2	

SEMESTER 6

Course	Paper code	Paper	Hours	Credit
Core Course X	PHYB10	Thermodynamics	3	3
Core Course XI	PHYB11	Statistical Physics, Solid state Physics, Spectroscopy and Photonics	3	3
Core Course XII	PHYB12	Nuclear Physics and Particle Physics	3	3
Core Course XIII	PHYB13	Relativistic Mechanics and Astrophysics	3	3
Core Course XIV	PHYB14	Elective(EL2): NanoScience and Technology	3	3
Core Course Practical XV	PHYB15	Practical- II	4	5
Core Course Practical XVI	PHYB16	Practical-III	4	5
Core Course XVII	PHYB17	Project		2
	(P/R)	Tour Report	2	1