



MES KEVEEYAM COLLEGE VALANCHERY

Valanchery, Malappuram Dist, Kerala, Pin: 676 552.

Phone: 0494-2642670

Website: www.meskevmcollege.org, Email: principal@meskevmcollege.org

Aided by Govt. of Kerala and Affiliated to University of Calicut
Reaccredited with 'A' Grade by NAAC (Score 3.28)
ISO 9001:2015 certified institution

List of new courses introduced in the Programme Bachelor of Physics

Name of the New Courses Introduced in the Last 5 years	Programme Name	Programme Code	Course Code	Year of Introduction
Core course II : Properties of Matter, Waves and Acoustics	BSc Physics	MESKV/04/PH	PH2B02	2014
Core course III : Mechanics	BSc Physics	MESKV/04/PH	PH3B03	2014
Core course IV: Electrodynamics I	BSc Physics	MESKV/04/PH	PH4B04	2014
Core course Practical V : Practical I	BSc Physics	MESKV/04/PH	PH4B05	2014
Core course VI-Electrodynamics II	BSc Physics	MESKV/04/PH	PH5B06	2014
Core course VII-Quantum Mechanics	BSc Physics	MESKV/04/PH	PH5B07	2014
Core course VIII-Physical optics and Modern Optics	BSc Physics	MESKV/04/PH	PH5B08	2014
Core course IX-Electronics (Analogue and digits)	BSc Physics	MESKV/04/PH	PH5B09	2014
Core course XIV-Practical II	BSc Physics	MESKV/04/PH	PH5B09	2014
Core course XV-Practical III	BSc Physics	MESKV/04/PH	PH5B09	2014
Core course X-Thermal and statistical physics	BSc Physics	MESKV/04/PH	PH6B10	2014
Core course XI-Solid state Physics,Spectroscopy and Laser Physics	BSc Physics	MESKV/04/PH	PH6B11	2014
Core course XII-Nuclear Physics,Particle Physics and Astrophysics	BSc Physics	MESKV/04/PH	PH6B12	2014
Core course XIII(Electictive)	BSc Physics	MESKV/04/PH	PH6B13	2014
Core course Practical XIV-Practical II	BSc Physics	MESKV/04/PH	PH6B14	2014
Core course Practical XV-Practical III	BSc Physics	MESKV/04/PH	PH6B15	2014
Core course Practical XVI-Project and Tour Report	BSc Physics	MESKV/04/PH	PH6B16	2014
Computer Fundamentals	BSc Physics	MESKV/04/PH	CSC1C01	2014
Fundamentals of System Software, Networks and DBMS	BSc Physics	MESKV/04/PH	CSC2C02	2014
Visual Programming	BSc Physics	MESKV/04/PH	CSC3C03	2014
Programming Lab:C & Visual Programming	BSc Physics	MESKV/04/PH	CSC4C04	2014
Fundamentals of System Software, Networks and DBMS	BSc Physics	MESKV/04/PH	CSC2C02	2017
Problem Solving Using C Programming	BSc Physics	MESKV/04/PH	CSC3C03	2017
Data structures Using C Programming	BSc Physics	MESKV/04/PH	CSC4C04	2017
Programming Lab:C & Data Structures	BSc Physics	MESKV/04/PH	CSC4C05	2017



Principal
2017

UNIVERSITY OF CALICUT

(Abstract)

B.Sc Programme in Physics - under Choice Based Credit Semester System-Scheme and syllabus-implemented with effect from 2009 admission-approved-orders issued.

GENERAL AND ACADEMIC BRANCH – I 'J' SECTION

No. GAI/J2/3725/07 Dated, Calicut University P.O .26.06.09

- Read:
1. U.O.No.GAI/J2/3601/08(vol II) dtd 19/06/09.
 2. Minutes of the meeting of Board of Studies in Physics (UG) held on 29.04.2009.
 3. Item No. 2 (xviii) of the minutes of the meeting of the Faculty of Science held on 05.05.09.
 4. Item No.II. A.19 of the minutes of the meeting of the Academic Council held 14.05.09.

ORDER.

Choice based Credit Semester System and Grading has been introduced for UG Curriculum in the affiliated colleges of the University with effect from 2009 admission onwards and the regulations for the same implemented vide paper cited 1st above.

Vide paper read as 2, the Board of studies resolved to approve the Syllabus of BSc Programme in Physics under Choice based Credit Semester System prepared in the workshop conducted for the purpose. The Board also approved the regulation for the same.

The Faculty of Science vide paper read as 3rd endorsed the minutes of the meeting of the Board of studies in Physics(UG).

The Academic Council, vide paper read as 4th above, approved the minutes of the Faculty of Science.

Sanction has therefore been accorded for implementing the scheme and syllabus of BSc Programme in Physics under Choice based Credit Semester System in the University with effect from 2009 admission onwards.

Orders are issued accordingly .

Syllabus is appended.

Sd/-

**DEPUTY REGISTRAR (G&A I)
For REGISTRAR**

To

The Principals of all affiliated Colleges
offering BSc Programme in Physics.

Copy to: PS toVC, PA toPVC,PA toR, Controllor of Examination, EX.Sn,DR BSc.EGI,Enquiry,Information
centrers,G&A-I A.F.G Sns,G&A-II.III branches, System Administration-with a request to upload in
University website .

Forwarded/By Order

SECTION OFFICER

UNIVERSITY OF CALICUT

(Abstract)

BSc programme in Physics under Choice based Credit Semester System - w.e.f 2009 admn- finalised syllabus-approved-implemented- orders issued

GENERAL AND ACADEMIC BRANCH -I 'J' SECTION

No. GA I/J2/3725/07

Dated, Calicut University P.O, 04.02.2010

Read : 1.U.O of even no.dated 26.06.09

2. Minutes of the meeting of the Board of Studies in Physics(UG) of 28.01.2010

3. Letter from the Chairman Board of Studies in Physics(UG) dtd 01.02.2010

ORDER

The syllabus of B.Sc programme in Physics under CCSS was implemented w.e.f 2009 admission onwards vide paper read as 1st above.

The Board of Studies in Physics(UG) vide paper read as 2nd resolved to incorporate changes in the syllabus of BSc programme in Physics under CCSS and approved the corrections.

The Chairman, vide paper read as 3rd informed that the Board of Studies in Physics (UG) has finalized the syllabus of BSc Physics(Core,Complementary,Open and Elective Courses) for urgent implementation.

The Vice Chancellor, in view of urgency, approved the minutes subject to ratification by the Academic Council.

Sanction has therefore been accorded for implementing the finalised syllabus of B.Sc. programme in Physics under CCSS with effect from 2009 admission onwards.

Orders are issued accordingly. Syllabus appended.

Sd/-

**DEPUTY REGISTRAR (G & A I)
For Registrar**

To

The Principals of affiliated colleges offering UG programme in Physics.

Copy to:

PS to VC/PA to Registrar/Chairman,Board of Studies in Physics(UG)/CE/ EX Sn /DR3/DR (BSc) /Tabulation Sn./EG1 /Exam. Enquiry /All Information Centers/System administrator with a request to upload in the University website/GAI,'F',G' Sections/GAII, GA III Branches.

Forwarded / By Order

Sd/-

SECTION OFFICER



UNIVERSITY OF CALICUT

Restructuring UG Curriculum

Syllabus

(Revised)

for

BSc. Degree (Physics) Programme

(Core, Complementary and Open Courses)

Framed in the

WORKSHOP ON

RESTRUCTURING OF UNDERGRADUATE COURSES

AND

SYLLABUS FRAMING

Conducted at

St. Joseph's College, Devagiri, Kozhikode

During 18 & 19 February 2009

And

Sree Kerala Varma College, Thrissur

During 18-20 March 2009

B.Sc. DEGREE PROGRAMME (PHYSICS CORE)

COURSE STRUCTURE

Semester	Course Code	Course Title	Total hours	Hours/ Week	Credits
I	A 01	Common Course I - English	72	4	3
	A 02	Common Course II – English	90	5	3
	A 07	Common Course III – Language other than English	72	4	4
	PH1 B01	Core course I - Methodology of Science and Physics	36	2	2@
	PH1 B02 (P)	Core Course Practical I - Practical I	36	2	*
		1 st Complementary Course I - Mathematics	72	4	2
		2 nd Complementary Course I	36	2	2
		2 nd Complementary Course Practical I	36	2	*
		Total		25	16@
II	A 03	Common Course IV - English	72	4	4
	A 04	Common Course V – English	90	5	4
	A 08	Common Course VI – Language other than English	72	4	4
	PH2 B03	Core Course II - Properties of Matter, Waves and Acoustics	36	2	2
	PH2 B04 (P)	Core Course Practical II - Practical I	36	2	*
		1 st Complementary Course II - Mathematics	72	4	2
		2 nd Complementary Course II	36	2	2
		2 nd Complementary Course Practical II	36	2	*
		Total		25	18
III	A 05	Common Course VI - English	90	5	4
	A 09	Common Course VIII - Language other than English	90	5	4
	PH3 B05	Core Course III - Mechanics	54	3	3
	PH3 B06 (P)	Core Course Practical III – Practical I	36	2	*
		1 st Complementary Course III – Mathematics	90	5	4
		2 nd Complementary Course III	54	3	2
		2 nd Complementary Course Practical III	36	2	*
		Total		25	17
IV	A 06	Common Course IX – English	90	5	4
	A 10	Common Course X - Language other than English	90	5	4
	PH4 B07	Core Course IV - Electrodynamics I	54	3	3

	PH4 B08 (P)	Core Course Practical IV – Practical I	36	2	4 [@]
		1 st Complementary Course IV– Mathematics	90	5	4
		2 nd Complementary Course IV	54	3	2
		2 nd Complementary Course Practical IV	36	2	4
		Total		25	25 [@]
V	PH5 B09	Core Course V - Electrodynamics II	54	3	3
	PH5 B10	Core Course VI - Quantum Mechanics	54	3	3
	PH5 B11	Core Course VII - Physical Optics and Modern Optics	54	3	3
	PH5 B12	Core Course VIII- Electronics (Analogue and Digital)	54	3	3
		Open Course – (course from other streams)	36	2	4
	PH5 B13(P)	Core Course Practical V - Practical II	90	5	*
	PH5 B14(P)	Core Course Practical VI - Practical III	90	5	*
	PH5 B15 (PR)	Project		1	*
		Total		25	16
VI	PH6 B16	Core Course IX - Thermal and Statistical Physics	54	3	3
	PH6 B17	Core Course X - Solid State Physics, Spectroscopy and Laser physics	54	3	3
	PH6 B18	Core Course XI - Nuclear Physics, Particle Physics and Astrophysics	54	3	3
	PH6 B19	Core Course XII – Computational Physics	36	2	2
	PH6 B20	Core Course XIII (Elective)	54	3	3
	PH6 B21 (P)	Core Course Practical VII – Practical II	90	5	6
	PH6 B22 (P)	Core Course Practical VIII – Practical III	90	5	6
	PH6 B23(Pr)	Project		1	2
		Total		25	28
Total Credits					120

[@] Only for students of 2009 admission, PH1 B01(Methodology of Science and Physics) carries one (1) credit, instead of 2 given in the syllabus and PH4 B08(P) (core course practical paper I) carries five(5) credits, instead of 4 given in the syllabus. Also, the total credits for the I semester will be 15 instead of 16 and that for the IV semester it will be 26 instead of 25 given in the syllabus.

Note : The teaching hours indicated against all the practicals are actual hours. The effective hours are calculated by considering the strength of the students.

UNIVERSITY OF CALICUT

B.Sc. PHYSICS

(CORE AND COMPLIMENTARY PROGRAMMES)

SYLLABUS & MODEL QUESTION PAPERS

w.e.f 2014 admission onwards

Orders are issued accordingly.

(The syllabus is available in the website: universityofcalicut.info)

Muhammed S
Deputy Registrar

To

1. All Affiliated Colleges/SDE/Dept.s/Institutions under University of Calicut.
2. The Controller of Examinations, University of Calicut.
3. The Director SDE, University of Calicut.

Forwarded / By Order

Section Officer

2014

B.Sc. DEGREE PROGRAMME (PHYSICS CORE)**COURSE STRUCTURE**

Semester	Course Code	Course Title	Total hours	Hours/ Week	Credits
I	A 01	Common Course I – English	72	4	4
	A 02	Common Course II – English	90	5	3
	A 07	Common Course III – Language other than English	72	4	4
	PH1 B01	Core course I - Methodology of Science and Physics	36	2	2
		Core Course V - Practical I	36	2	*
		1 st Complementary Course I - Mathematics	72	4	3
		2 nd Complementary Course I	36	2	2
		2 nd Complementary Course Practical I	36	2	*
		Total	450	25	18
II	A 03	Common Course IV – English	72	4	4
	A 04	Common Course V – English	90	5	3
	A 08	Common Course VI – Language other than English	72	4	4
	PH2 B02	Core Course II - Properties of Matter, Waves and Acoustics	36	2	2
		Core Course V - Practical I	36	2	*
		1 st Complementary Course II - Mathematics	72	4	3
		2 nd Complementary Course II	36	2	2
		2 nd Complementary Course Practical II	36	2	*
III		Total	450	25	18
	A 05	Common Course VI – English	90	5	4
	A 09	Common Course VIII - Language other than English	90	5	4
	PH3 B03	Core Course III – Mechanics	54	3	3
		Core Course VI– Practical I	36	2	*
		1 st Complementary Course III – Mathematics	90	5	3
		2 nd Complementary Course III	54	3	2
		2 nd Complementary Course Practical III	36	2	*
IV		Total	450	25	16
	A 06	Common Course IX – English	90	5	4

	A 10	Common Course X - Language other than English	90	5	4
	<u>PH4 B04</u>	Core Course IV - Electrodynamics I	54	3	3
	<u>PH4 B05</u>	Core Course Practical V – Practical I	36	2	5
		1 st Complementary Course IV– Mathematics	90	5	3
		2 nd Complementary Course IV	54	3	2
		2 nd Complementary Course Practical IV	36	2	4
		Total	450	25	25
V	<u>PH5 B06</u>	Core Course VI - Electrodynamics II	54	3	3
	<u>PH5 B07</u>	Core Course VII - Quantum Mechanics	54	3	3
	<u>PH5 B08</u>	Core Course VIII - Physical Optics and Modern Optics	54	3	3
	<u>PH5 B09</u>	Core Course IX- Electronics (Analogue and Digital)	72	4	4
		Open Course – (<i>course from other streams</i>)	54	2	2
		Core Course Practical XIV - Practical II	72	4	*
		Core Course Practical XV- Practical III	72	4	*
		Project	36	2	*
		Total	450	25	15
VI	<u>PH6 B10</u>	Core Course X - Thermal and Statistical Physics	72	4	4
	<u>PH6 B11</u>	Core Course XI - Solid State Physics, Spectroscopy and Laser physics	72	4	4
	<u>PH6 B12</u>	Core Course XII - Nuclear Physics, Particle Physics and Astrophysics	72	4	4
	<u>PH6 B13</u>	Core Course XIII (Elective)	54	3	3
	<u>PH6 B14</u>	Core Course Practical XIV – Practical II	72	4	5
	<u>PH6 B15</u>	Core Course Practical XV – Practical III	72	4	5
	<u>PH6 B16</u>	Course XVI Project& Tour report	36	2	3
		Total	450	25	28
	Total Credits				120

Tour report may be evaluated with Practical III

UNIVERSITY OF CALICUT
THENHIPALAM, CALICUT UNIVERSITY P.O



SYLLABUS

FOR
COMPUTER SCIENCE
(COMPLEMENTARY)
(CHOICE BASED CREDIT AND SEMESTER SYSTEM)

UNDER THE
FACULTY OF SCIENCE

FOR THE STUDENTS ADMITTED FROM THE ACADEMIC
YEAR 2014 – 15 ONWARDS

BOARD OF STUDIES IN COMPUTER SCIENCE (UG)
THENHIPALAM, CALICUT UNIVERSITY P.O ·
KERALA, 673 635, INDIA

JULY, 2014

© COPYRIGHT BY UNIVERSITY OF CALICUT, 2014

**CURRICULUM FOR B.SC COMPUTER SCIENCE
(COMPLEMENTARY)
(2014 – 15 ACADEMIC YEAR ONWARDS – AS PER THE
CUCBCSSUG 2014 REGULATIONS)**

Total Courses: 5

Total Credits: 12

Semester	Course No	Course Code	Course Title	Marks			Contact Hours			Credits
				Internal	External	Total	Theory	Lab	Total	
I	1	CSC1C01	Computer Fundamentals	16	64	80	2	2	4	3
II	2	CSC2C02	Programming in C	16	64	80	2	2	4	2
III	3	CSC3C03	Fundamentals of System Software, Networks & DBMS	16	64	80	3	2	5	3
IV	4	CSC4C04	Visual Programming	16	64	80	3	0	3	2
IV	5	CSC4C05	Programming Lab: C & Visual Programming	16	64	80	0	2	2	2
Total (5 Courses)						400				12

CSC1B01 – Computer Fundamentals

Semester: 1

Course Number: 1

Contact Hours: 2T+2L

Number of Credits: 2

Number of Contact Hours: 30T+30L

Course Evaluation: Internal – 15 Marks + External – 65 Marks

CURRICULUM FOR B.Sc. COMPUTER SCIENCE

(COMPLEMENTARY)

(2017-18 ACADEMIC YEAR ONWARDS – AS PER THE CUCBCSSUG 2014 REGULATIONS)

Total Courses: 5				Total Credits: 12						
S e m e s t e r	C o u r s e N o	Course Code	Course Title	Marks			Contact Hours			C r e d i t s
				I n t e r n a l	E x t e r n a l	To t a l	T h e o r y	L a b	T o t a l	
I	1	CSC1C01	Computer Fundamentals	16	64	80	2	2	4	3
II	2	CSC2C02	Fundamentals of System Software, Networks & DBMS	16	64	80	2	2	4	3
III	3	CSC3C03	Problem solving using C programming	16	64	80	3	2	5	2
IV	4	CSC4C04	Data Structures Using C Programming	16	64	80	3	2	5	2
IV	5	CSC4C05	Programming Lab: C & Data Structures	16	64	80	0	0	0	2
Total (5 Courses)						400				12