



UNIVERSITY OF CALICUT

Abstract

BSc programme in Physics-CUCBCSS UG 2014-Core and Complementary Courses-Scheme and Syllabus- Approved- Implemented-w.e.f 2014 Admissions-Orders issued

G & A - IV - J

U.O.No. 6902/2014/Admn

Dated, Calicut University.P.O, 17.07.2014

- Read:-*1. U.O. No. 3797/2013/CU, dated 07.09.2013 (CBCSS UG Modified Regulations) (File.ref.no. 13752/GA IV J SO/2013/CU).
2. U.O. No. 5180/2014/Admn, dated 29.05.2014 (CBCSS UG Revised Regulations) (File.ref.no. 13752/GA IV J SO/2013/CU).
3. Item no. 1 of the minutes of the meeting of the Board of Studies in Physics UG held on 20.06.2014.
4. Item no. 34 of the minutes of the meeting of the Faculty of Science held on 27.06.2014.
5. Orders of the VC on 14.07.2014, in the file no, 18602/GA IV /J1/2013/CU.

ORDER

The Modified Regulations of Choice Based Credit Semester System for UG Curriculum w.e.f 2014 was implemented under the University of Calicut vide paper read as (1).

The Revised CUCBCSS UG Regulations has been implemented w.e.f 2014 admission, for all UG programme under CUCBCSS in the University, vide paper read as (2).

The Board of Studies in Physics UG approved the new syllabus for **B.Sc. Physics Core Course**, B.Sc. Applied Physics, and **Complimentary Courses** according to the new system, which is to be implemented w.e.f 2014 admissions vide paper read as (3).

The Faculty of Science has also approved the minutes of the Board vide paper read as (4).

The Hon'ble Vice Chancellor, considering the exigency, exercising the powers of the Academic Council has approved the items regarding syllabus implementation in the minutes of the concerned Boards of Studies mentioned in the minutes of the Faculty of Science, subject to ratification by the Academic Council, vide paper read as (5).

Sanction has, therefore, been accorded for implementing the Scheme and Syllabus of **BSc. programme in Physics Core and Complementary Courses** under CUCBCSS UG 2014, in the University, w.e.f 2014 Admissions.

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

UNIVERSITY OF CALICUT

B.Sc. PHYSICS

(CORE AND COMPLIMENTARY PROGRAMMES)

SYLLABUS & MODEL QUESTION PAPERS

w.e.f 2014 admission onwards

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	*
	Total	450	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 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	*
	Total	450	25	16	
IV	A 06	Common Course IX – English	90	5	4

	A 10	Common Course X - Language other than English	90	5	4
	PH4 B04	Core Course IV - Electrodynamics I	54	3	3
	PH4 B05	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	PH5 B06	Core Course VI - Electrodynamics II	54	3	3
	PH5 B07	Core Course VII - Quantum Mechanics	54	3	3
	PH5 B08	Core Course VIII - Physical Optics and Modern Optics	54	3	3
	PH5 B09	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	PH6 B10	Core Course X - Thermal and Statistical Physics	72	4	4
	PH6 B11	Core Course XI - Solid State Physics, Spectroscopy and Laser physics	72	4	4
	PH6 B12	Core Course XII - Nuclear Physics, Particle Physics and Astrophysics	72	4	4
	PH6 B13	Core Course XIII (Elective)	54	3	3
	PH6 B14	Core Course Practical XIV – Practical II	72	4	5
	PH6 B15	Core Course Practical XV – Practical III	72	4	5
	PH6 B16	Course XVI Project& Tour report	36	2	3
		Total	450	25	28
Total Credits					120

Tour report may be evaluated with Practical III