



**UNIVERSITY OF CALICUT**

**Abstract**

B.Sc in Mathematics-CUCBCSS UG 2014-Scheme and Syllabus-Implemented-w.e.f. 2014 Admissions-Erratum issued.

---

**G & A - IV - J**

U.O.No. 7790/2016/Admn

Dated, Calicut University.P.O, 22.06.2016

---

- 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 Mathematics UG held on 03.04.2014.  
4. Item no. 19 of the minutes of the meeting of the Faculty of Science held on 27.06.2014.  
5. U.O.No. 6841/2014/Admn dtd. 16.07.2014.  
6. U.O.No. 3073/2016/Admn dtd. 19.03.2016.  
7. U.O.No. 5290/2016/Admn dtd. 26.04.2016.  
8. Circular No. No. 13725/GA - IV - J - SO/2013/CU  
9. Letter dtd. 03.06.2016 from Chaiman Board of Studies in Mathematics UG.  
10. Orders of the VC in the file of even No. dtd. 17.06.2016.

**ORDER**

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

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

The Board of Studies in Mathematics UG resolved to submit the revised syllabus, by including marks instead of weightage as per the new Regulations vide paper read as (3).

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

Vide paper read as (5), the Scheme and Syllabus of B.Sc in Mathematics under CUCBCSS UG 2014 has been implemented in the University, w.e.f. 2014 Admissions.

An erratum has been issued in the syllabus vide paper read as (6),with the following changes in

the scheme of evaluation:

**Total marks 100 for the core papers in the 5th & 6th semesters have been changed to 150 marks,so that the total marks for B.Sc mathematics Programme w.e.f from 2014 admission has been changed to 3600 marks from 3200 marks.**

Vide paper read as (7), another erratum has been issued in the Syllabus of B.Sc Mathematics by including the following changes in the pattern of question paper.

**In the scheme of evaluation attached to syllabus, Column 4 in Part D under the Title PATTERN OF QUESTION PAPER FOR UNIVERSITY EXAMINATIONS is modified as 2 out of 3 instead of 6 out of 9.**

Vide paper read as (8), it has been clarified by Steering Committee on CUCBCSS UG 2014 that as per CUCBCSS UG Regulations 2014, Open Course shall have 2 Credits and shall be allotted 2 hours for teaching.

The Chairman Board Of Studies in Mathematics UG vide paper read as (9), pointed out that in the approved syllabus of B.Sc Mathematics, Open Course syllabus prepared for 3 hrs per week and hence requested to make modifications in the syllabus **reducing the workload for open course to 2 hours per week.**

Vide paper read as (10), permission has been granted by the Hon'ble Vice Chancellor to modify the Syllabus of B.Sc Mathematics as requested by the Chairman.

Sanction has, therefore, been accorded for implementing the modified Scheme and Syllabus of B.Sc in Mathematics under CUCBCSS UG 2014, in the University, w.e.f. 2014 Admissions.

Orders are issued accordingly.

(The syllabus is available in the website: [www.universityofcalicut.info](http://www.universityofcalicut.info))

Anuja Balakrishnan  
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. DEGREE PROGRAMME**  
**CHOICE BASED CREDIT SEMESTER SYSTEM (CBCSS UG)**

**MATHEMATICS (CORE, OPEN& COMPLEMENTARY COURSES)**

## **SYLLABUS**

*(Effective from 2014 admission onwards)*

## DETAILS OF CORE COURSES

Sl No.	Code	Name Of The Course	Semester	No. of Contact Hours / Credits	Max. Marks			Duration of University Examinations	
					Internal	External	Total		
1	MAT1B01	Foundations of mathematics	I	4	4	20	80	100	3 Hrs
2	MAT2B02	Calculus	II	4	4	20	80	100	3 Hrs
3	MAT3B03	Calculus and analytic geometry	III	5	4	20	80	100	3 Hrs
4	MAT4B04	Theory of equations, matrices and vector calculus	IV	5	4	20	80	100	3 Hrs
5	MAT5B05	Vector calculus	V	5	4	30	120	150	3 Hrs
6	MAT5B06	Abstract algebra		5	5	30	120	150	3 Hrs
7	MAT5B07	Basic mathematical analysis		6	5	30	120	150	3 Hrs
8	MAT5B08	Differential equations		5	4	30	120	150	3 Hrs
9		Open Course (Offered by Other Departments)		2	2	10	40	50	2 Hrs
10		Project/viva		2	---	---	---	---	---
11	MAT6B09	Real analysis	VI	5	5	30	120	150	3 Hrs
12	MAT6B10	Complex analysis		5	5	30	120	150	3 Hrs
13	MAT6B11	Numerical methods		5	4	30	120	150	3 Hrs
14	MAT6B12	Number theory and linear algebra		5	4	30	120	150	3 Hrs
Elective Course*									
15	MAT6B13(E01)	Graph Theory	VI	3	2	20	80	100	3 Hrs
	MAT6B13(E02)	Linear Programming**							
	MAT6B13(E03)	C Programming For Mathematical Computing***							
	MAT6B13(E04)	Informatics and Mathematical Softwares							
16	MAT6P14(PR)	Project/viva	VI	2	2	10	40	50	---

\*In the VI<sup>th</sup> semester an elective course shall be chosen among the four courses