THE ASSAM ROYAL GLOBAL UNIVERSITY
GUWAHATI

CRITERION 1
CURRICULAR ASPECTS

METRIC NO. 1.3.3

B. Sc Mathematics and Computing

Field Work / Research Project / Internship

To Whom It May Concern

This is to certify that, as part of the curriculum for following programmes at The Assam Royal Global University, it has been mandated in syllabus that all students will undertake a compulsory project/internship. However, these Programmes were introduced recently and hence, there is no evidence of Project Report submitted by the students.

SL	Programmes	Year of Commencement of the Programme	Semester in which Project/Internship are mandated in syllabus
1	B. Sc.- Medical and Laboratory Technology	2020-21	7th and 8th Semesters
2	BA - Film and Television Production	2022-23	3rd and 5th semester
3	MA - Film and Television Production	2022-23	3rd semester
4	B. Sc. Animation and Visual Effects	2021-22	6th semester
5	B. Optometry	2021-22	7th and 8th Semesters
6	B. Sc. Operation Theatre Management	2022-23	5th Semester
7	B. Sc. Radiology and Advance Imaging Technology	2022-23	After 6th semester
8	B. Sc. Mathematics and Computing	2021-22	6th Semester
9	BA Public Administration	2022-23	3rd and 5th semester
10	B. Des Graphic Design	2022-23	7th and 8th Semesters

27/6/24

Prof.(Dr.) Ankur Ganguly
Dean- Academics
Royal Global University
Guwahati, Assam, India

ROYAL GLOBAL UNIVERSITY
— GUWAHATI —

Royal School of Applied & Pure Sciences

BACHELOR OF SCIENCE (HONS.) IN MATHEMATICS & COMPUTING
(B.Sc. (Hons.) Mathematics & Computing)

Learning Outcomes based Curriculum Framework (LOCF)

COURSE STRUCTURE & SYLLABUS

2021-22

Head Department of Mathematics
The Assam Royal Global University

Semester wise Details of B.Sc. (Hons.) Mathematics Course & Credit Scheme

B.Sc. (Honours) Mathematics & Computing

Course Structure

Sl. No.	Subject Code	Names of subjects	L	T	P	C	TCP
1st Semester							
Core Subjects							
1	MAC012C101	Calculus	5	1	0	6	6
2	MAC012C102	Classical Algebra and Trigonometry	5	1	0	6	6
3	MAC012C103	Introduction to programming in C	3	1	0	4	4
	MAC012C113	Programming in C Lab	0	0	4	2	4
Ability Enhancement Compulsory Course (AECC)							
4	CEN982A101	Communicative English – I	1	0	0	1	1
5	BHS982A104	Behavioural Science-I	1	0	0	1	1
Elective: Generic (GE)							
6		GE-1	3	0	0	3	3
7		GE-2	3	0	0	3	3
Total Credit: 26							

Sl. No.	Subject Code	Names of subjects	L	T	P	C	TCP
2nd Semester							
Core Subjects							
1	MAC012C201	Linear Algebra (25% Blended)	5	1	0	6	6
2	MAC012C202	Differential Equations	5	1	0	6	6
3	MAC012C203	Data Structure & algorithm using C	3	1	0	4	4
	MAC012C213	Data Structure Lab	0	0	4	2	4
Ability Enhancement Compulsory Course (AECC)							
4	CEN982A201	Communicative English – II	1	0	0	1	1
5	BHS982A204	Behavioural Science-II	1	0	0	1	1
Elective: Generic (GE)							
6		GE-1	3	0	0	3	3
7		GE-II	3	0	0	3	3
Total Credit: 26							

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3rd Semester							
Sl. No.	Subject Code	Names of subjects	L	T	P	C	TCP
Core Subjects							
1	MAC012C301	Real Analysis	5	1	0	6	6
2	MAC012C302	Operating System	3	1	0	4	4
	MAC012C312	Operating System Lab	0	0	4	2	4
Ability Enhancement Compulsory Course (AECC)							
3	CEN982A301	Communicative English – III	1	0	0	1	1
4	EVS982A303	Environmental Science	2	0	0	2	2
Ability Enhancement Elective Course (AEEC) (Skill Based)							
5		AEEC-1 (Ivvestment in stock market/Office automation/C++/French)	2	0	0	2	2
Elective: Generic (GE)							
6		GE-1	3	0	0	3	3
7		GE-2	3	0	0	3	3
Total Credit: 23							

4th Semester							
Sl. No.	Subject Code	Names of subjects	L	T	P	C	TCP
Core Subjects							
1	MAC012C401	Complex Analysis (25% Blended)	5	1	0	6	6
2	MAC012C401	Database management System	3	1	0	4	4
	MAC012C411	Database management System Lab	0	0	4	2	4
Ability Enhancement Compulsory Course (AECC)							
3	CEN982A401	Communicative English – IV	1	0	0	1	1
Ability Enhancement Elective Course (AEEC) (Skill Based)							
4		AEEC-2 (Investment in stock market/Office Automation/C++/French)	2	0	0	2	2
Elective: Generic (GE)							
5		GE-1	3	0	0	3	3
6		GE-2	3	0	0	3	3
Total Credit: 21							

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		5th Semester					
Sl. No.	Subject Code	Names of subjects	L	T	P	C	TCP
		Core Subjects					
1	MAC012C501	Numerical Methods & LPP	5	1	0	6	6
2	MAC012C502	Computer Graphics	3	1	0	4	4
	MAC012C512	Computer Graphics Lab	0	0	4	2	4
		Ability Enhancement Compulsory Course (AECC)					
3	CEN982A501	Communicative English – V	1	0	0	1	1
		Elective: Discipline Specific (DSE)					
		Group A (Choose any one)					
4	MAC012D501	Discrete mathematics	4	0	0	4	4
5	MAC012D502	Fourier Series and Transform Calculus	4	0	0	4	4
		Group B (Choose any one)					
6	MAC012D503	JAVA Programming	3	0	0	3	3
	MAC012D513	JAVA Programming Lab	0	0	2	1	2
7	MAC012D504	Web Design	4	0	0	4	4
8	MAC012D505	Neural Networks	4	0	0	4	4
		Seminar					
9	MAC012D531	Graduate Seminar	0	0	0	4	4
		Total Credit: 25					

		6th Semester					
Sl. No.	Subject Code	Names of subjects	L	T	P	C	TCP
		Core Subjects					
1	MAC012C601	Number Theory and Graph Theory	5	1	0	6	6
2	MAC012C602	Python Programming	3	1	0	4	4
	MAC012C612	Python Programming Lab	0	0	4	2	4
		Ability Enhancement Compulsory Course (AECC)					
3	CEN982A601	Communicative English – VI	1	0	0	1	1
		Elective: Discipline Specific (DSE)					
		Group A (Choose any one)					
4	MAC012D601	Abstract Algebra	4	0	0	4	4
5	MAC012D602	Introduction to mathematical Modelling	4	0	0	4	4
		Group B (Choose any one)					
6	MAC012D603	Cryptography	4	0	0	4	4
7	MAC012D604	Artificial Intelligence	4	0	0	4	4
8	MAC012D605	Computer Animations	3	0	0	3	3
	MAC012D615	Computer Animations Lab	0	0	2	1	2
		Project					
9	MAC012D621	Project/ Literature Review	0	0	0	4	4
		Total Credit: 25					

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