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CURRICULUM
FOR
B.S.C.(HONOURS)
IN
MATHEMATICS

Under Choice Based Credit System
(CBCS)

Effective from the academic session 2016-2017



KAZI NAZRUL UNIVERSITY
ASANSOL-713 340
WEST BENGAL

S.K. Ghosh
H. O. D.
Department of Mathematics
Kazi Nazrul University
Asansol, West Bengal

Department of "Mathematics", Kazi Nazrul University, Asansol

Curriculum for B.Sc. Honours in Mathematics [Choice Based Credit System]

Semester-I

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	Unit 1: Classical Algebra Unit 2: Abstract Algebra I	Core Course-I		5	1	0	6
2	Unit 1: Real Analysis I Unit 2: Integral Calculus	Core Course-II		5	1	0	6
3	GE-I	GE					4/5
	GE-I Lab/Tutorial	GE					2/1
4	EVS	AECC		4			4
				Total Credit =22			

Semester-II

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	Unit 1: Linear Algebra Unit 2: Abstract Algebra II	Core Course III		5	1	0	6
2	Unit 1: Geometry of two-dimension Unit 2: Geometry of three-Dimension	Core Course-IV		5	1	0	6
3	GE-II	GE					4/5
	GE-II Lab/Tutorial	GE					2/1
4	MIL	AECC					2
				Total Credit =20			

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Semester-III

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	Unit 1: Vector Analysis Unit 2: Tensor Calculus	Core Course-V		5	1	0	6
2	Unit 1: Real Analysis II Unit 2: Number Theory	Core Course-VI		5	1	0	6
3	Differential Equations	Core Course VII		5	1	0	6
4	GE-III	GE					4/5
	GE-III Lab/Tutorial	GE					2/1
5	SEC -I	AEEC-I					2
				Total Credit =26			

Semester-IV

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	Real Analysis III	Core Course-VIII		5	1	0	6
2	Introduction to Operations Research	Core Course IX		5	1	0	6
3	Mechanics I (Dynamics of a Particle)	Core Course X		5	1	0	6
4	GE-IV	GE					4/5
	GE-IV Lab/Tutorial	GE					2/1
5	SEC -II	AEEC-II					2
				Total Credit = 26			

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Semester-V

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	Unit 1: Metric Spaces Unit 2: Elementary complex analysis	Core Course XI		5	1	0	6
2	Mechanics II (Dynamics of a system of Particles, rigid body Dynamics and statics)	Core Course XII		5	1	0	6
3	DSE -I	DSE-I					4/5
	DSE -I / Lab Tutorial	DSE-I					2/1
5	DSE -II	DSE-II					4/5
	DSE -II Lab/ Lab Tutorial	DSE-II					2/1
				Total Credit = 24			


Pool of DSE-I and DSE-II

(Choose any two from the following)

Marks: 50 (Credits: Theory: 5, Tutorial: 1) for each topic

- i) Element of Topology & Functional Analysis
- ii) Linear Algebra
- iii) Mathematical Modelling
- iv) Integral Transforms.
- v) Probability & Statistics

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Semester-VI

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	Numerical Analysis & Computer Programming	Core Course-XIII				6	
2	Computer aided numerical Laboratory	Core Course-XIV				6	
3	DSE -III	DSE-III				4/5	
	DSE -III / Lab Tutorial	DSE-III				2/1	
4	DSE -IV	DSE-IV				4/5	
	DSE -IV Lab/ Lab Tutorial	DSE-IV				2/1	
Total Credit =24							

Pool of DSE-III and DSE-IV

(Choose any two from the following)

Marks: 50 (Credits: Theory: 5, Tutorial: 1) for each topic

- i. Discrete Mathematics
- ii. Special Theory of Relativity
- iii. Optimization Techniques
- iv. Programming in C with applications
- v. Classical mechanics

Total Credit: 142

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