
CURRICULUM FOR B.SC.(HONOURS) IN MATHEMATICS

Under Choice Based Credit System
(CBCS)

Effective from the academic session 2016-2017



KAZI NAZRUL UNIVERSITY

ASANSOL-713 340

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
4	GE-I Lab/Tutorial	GE					2/1
5	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
4	GE-II Lab/Tutorial	GE					2/1
5	MIL	AECC					2
				Total Credit =20			

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
5	GE-III Lab/Tutorial	GE					2/1
6	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	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
5	GE-IV Lab/Tutorial	GE					2/1
6	SEC -II	AEEC-II					2
				Total Credit = 26			

Semester-V

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	Unit 1: Elementary functional analysis 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
4	DSE –I / Lab Tutorial	DSE-I					2/1
5	DSE -II	DSE-II					4/5
6	DSE –II Lab/ Lab Tutorial	DSE-II					2/1
				Total Credit = 24			

Semester-VI

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	Numerical Analysis & Hydrostatics	Core Course-XIII		5	1	0	6
2	Computer programming with Laboratory	Core Course XIV		4	0	2	6
3	DSE -III	DSE-III					4/5
4	DSE –III / Lab Tutorial	DSE-III					2/1
5	DSE -IV	DSE-IV					4/5
6	DSE –IV Lab/ Lab Tutorial	DSE-IV					2/1
				Total Credit =24			

Total Credit: 142

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Curriculum for B.Sc. Program 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: Differential Calculus I Unit 2: Integral Calculus I & Ordinary Differential Equation I	Core Course-I		5	1	0	6
2	DSC 2A [other discipline]	Core Course-II					6
3	DSC 3A [other discipline]	Core Course-III					6
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: Differential Calculus II Unit 2: Integral Calculus II & Ordinary Differential Equation II	Core Course-IV		5	1	0	6
2	DSC 2B [other discipline]	Core Course-V					6
3	DSC 3B [other discipline]	Core Course-VI					6
4	English/MIL	AECC					2
				Total Credit =20			

Semester-III

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 & Linear Algebra	Core Course-VII		5	1	0	6
2	DSC 2C [other discipline]	Core Course-VIII					6
3	DSC 3C [other discipline]	Core Course-IX					6
4	Skill enhancement Course	SEC-I					2
				Total Credit =20			

Semester-IV

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	Geometry & Vector Analysis	Core Course X		5	1	0	6
2	DSC 2C [other discipline]	Core Course-XI					6
3	DSC 3D [other discipline]	Core Course-XII					6
4	Skill enhancement Course	SEC-2					2
				Total Credit =20			

Semester-V

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	Skill enhancement Course	SEC-3					2
2	Discipline Specific Elective-1	DSE -1A					4/5
	Lab / Tutorial	DSE-1A					2/1
3	Discipline Specific Elective-2	DSE -2A					4/5
	Lab / Tutorial	DSE-2A					2/1
4	Discipline Specific Elective-3 (Theory)	DSE -3A					4/5
	Lab / Tutorial	DSE-3A					2/1
				Total Credit =20			

Semester-VI

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	Skill enhancement Course	SEC-4					2
2	Discipline Specific Elective-4 (Theory)	DSE -1B					4/5
	Lab / Tutorial	DSE-1B					2/1
3	Discipline Specific Elective-5 (Theory)	DSE -2B					4/5
	Lab / Tutorial	DSE-2B					2/1
4	Discipline Specific Elective-6 (Theory)	DSE -3B					4/5
	Lab / Tutorial	DSE-3B					2/1
				Total Credit =20			

Total Credit: 122