MAHISHADAL RAJ COLLEGE
SUBJECT COMBINATION & COURSE STRUCTURE
FOR UNDER GRADUATE COURSES FOR THE SESSION 2022-2023

HONOURS/MAJOR COURSE (CHOICE BASED CREDIT SYSTEM PATTERN – CBCS)

Students of B.A./B.Com./B.Sc. Honours/Major Course have to study 14 Core Courses/Papers in Honours/Major Subject.

In addition, they have to select any Two Subjects (*maximum one Subject from one group of A B C D E F G, mentioned below*) as Generic Subjects (02 papers each of these 02 Generic Subjects respectively in different Four semesters), different 02 AECC Courses in different Two semesters (*Bengali/English/Hindi Communication in 1st Sem. & Environmental Studies in 2nd Sem.*), 02 SEC Courses (*related with Hons./Major Subject*) in different Two semesters and 04 DSE Courses (*related with Hons./Major Subject*) in different Two semesters during three years.

HONS SUBJECT (CBCS)	Intake Capacity	GENERIC SUBJECT COMBINATION OF HONOURS/MAJOR COURSE						
		A	B	C	D	E	F	G
BENGALI	138	---	History / Sociology	Music	Philosophy	Sanskrit	Education	---
ENGLISH	138	Bengali / Hindi	History / Sociology	Music	Philosophy	---	Education	---
SANSKRIT	103	Bengali / Hindi	History / Sociology	Music	Philosophy	---	English	---
HISTORY	107	Bengali / Hindi	---	Pol. Science	Philosophy	---	Education	---
POLITICAL SC.	94	Bengali / Hindi	History / Sociology	---	Philosophy	---	Education	---
PHILOSOPHY	94	Bengali / Hindi	History / Sociology	---	---	Sanskrit	English	---
SOCIOLOGY	61	Bengali / Hindi	History	Pol. Science	---	Sanskrit	Education	---
EDUCATION	77	---	History / Sociology	Pol. Science	Philosophy	Sanskrit	---	---
MUSIC	20	Bengali	History		Philosophy	Sanskrit	---	---
PHYSICS	54	---	Chemistry	Mathematics *Compulsory for 1st & 2nd Sem	Comp. Sc.	Geology	---	---
CHEMISTRY	70	Physics / Nutrition	---	Mathematics *Compulsory for 1st & 2nd Sem	Comp. Sc./ Botany	Zoology / Geology	Physiology	---
MATHEMATICS	102	Physics/ Economics	Chemistry	---	Comp. Sc.	Geology	Physiology	---
COMPUTER SC.	45	Physics/ Economics	Chemistry	Mathematics *Compulsory for 1st & 2nd Sem	Botany	Zoology / Geology	Physiology	---
ZOOLOGY	54	Nutrition	Chemistry	---	Comp. Sc./ Botany	Geology	Physiology	---
BOTANY	27	Nutrition	Chemistry	---	Comp. Sc.	Zoology / Geology	Physiology	---
NUTRITION	36	---	Chemistry	Mathematics	Comp. Sc./ Botany	Zoology	Physiology	---
PHYSIOLOGY	25	Physics / Nutrition	Chemistry	---	Comp. Sc./ Botany	Zoology	---	---
GEOGRAPHY	70	Economics	Chemistry	Mathematics	Comp. Sc./ Botany	Zoology / Geology	---	---
GEOLOGY	25	Physics	Chemistry	Mathematics* *Compulsory for 1st & 2nd Sem	Comp. Sc./ Botany	Zoology	Geography	---
ECONOMICS	20	Nutrition	---	Mathematics	Comp. Sc./ Botany	Zoology / Geology	Geography	---
ACCOUNTANCY	134	Commerce Generic						
Industrial Chem (Major)	100	Physics	Chemistry	Mathematics	Comp. Sc.	---	---	---
BCA	50	Generic Sub for 1st Sem. : Business Accounting, Generic Sub for 3rd Sem. : Entrepreneurship Development,			Generic Sub for 2nd Sem. : Business Accounting, Generic Sub for 4th Sem. : Information Security			

GENERAL COURSES (CHOICE BASED CREDIT SYSTEM PATTERN – CBCS)

Students of B.A./B.Com. General Course have to study 12 Core Courses/Papers (08+04=12). In which 04 Core Papers each in 02 subject (*maximum one Subject from one group of A B C D E F G, mentioned below*) and 02 Language Core Papers each in English (*in 1st Sem & 3rd Sem*) and Bengali/Hindi (*in 2nd Sem & 4th Sem.*) alternatively. In addition they have to study two papers of One Generic Subject (*other than Core Courses & Language Core Course-English/Bengali in 5th & 6th Sem.*), different 02 AECC Courses in different Two semesters (*Bengali/English/Hindi Communication in 1st Sem. and Environmental Studies in 2nd Sem.*), 04 SEC Courses strictly on two subjects, taking exactly two courses from each subject (*related with DSC-1 & DSC-2*) in different Four semesters, 02 papers each from a list of DSE courses based on the different two discipline of choice (*related with DSC-1 & DSC-2*) in different Two semesters during three years.

Students of B.Sc. General Course have to study 12 Core Courses/papers. In which 04 Core Papers each in 03 Subjects (*maximum one Subject from one group of A B C D E F G, mentioned below*). In addition he/she has to choose different 02 AECC Courses in different Two semesters (*Bengali/English/Hindi Communication in 1st Sem. and Environmental Studies in 2nd Sem.*), 04 SEC Courses strictly on at least one from each DSC-1, DSC-2 & DSC-3 in different Four semesters, 02 papers each from a list of DSE courses based on the different three discipline of choice (*related with DSC-1, DSC-2 & DSC-3*) in different Two semesters during three years.

GENERAL SUBJECT (CBCS)	Intake Capacity	SUBJECT COMBINATION OF GENERAL COURSE						
		A	B	C	D	E	F	G
B.A. General	600	Bengali / Hindi	History / Sociology	Pol. Science / Music/ Human Rights Education	Philosophy	Sanskrit / Physical Education	Education / English	Military Science / NCC*
B.Sc. General	120	Economics / Physics/ Nutrition	Chemistry	Mathematics	Comp. Sc./ Botany	Zoology / Geology	Geography/ Physiology/ Disaster Management	Military Science / NCC*
B.Com. General	35	Commerce Subjects						

*N.B. : The candidates who are willing to opt NCC as a General subject they will have to appear at the Selection Test. Those who are not selected through the test, they will have to take other General subject instead of NCC.

Students of B.A./B.Com./B.Sc. Honours/Major Course have to study 14 Core Courses/Papers.

In addition, they have to select 04 Generic Courses (02 papers each of different 02 Generic Subjects respectively in different Four semesters and different 02 AECC Course in different Two semesters (Bengali/English Communication in 1st Sem. and Environmental Studies in 2nd Sem.), 02 SEC Courses (related with Hons./Major Subject) in different Two semesters and 04 DSE Courses (related with Hons./Major Subject) in different Two semesters during three years.

> **EXAMPLE**

HONOURS&	:	**HISTORY (Core Course)**
GE-1*	:	**POLITICAL SCIENCE (for 1st & 2nd Sem.)**
GE-3#	:	**PHILOSOPHY (for 3rd & 4th Sem.)**
AECC (Compulsory)	:	**AECC-1 : BENGALI COMMUNICATION (for 1st Sem.)**
		AECC-2 : ENVIRONMENAL STUDIES (for 2nd Sem.)

	Core Paper/ Course	Ability Enhancement Compulsory Course (AECC)	Skill Enhancement Course (SEC)	Discipline Specific Elective (DSE)	Generic Elective (GE)
1st Semester	**1& & 2&** HISTORY : HISHCC : CC1 HISTORY : HISHCC : CC2 **Credit : 06+06** **Marks : 75+75**	**Bengali /English/Hindi Communication** **BENGALI COMMUNICATION : BNGMAE : AECC1** **Credit : 02** **Marks : 50**			**GE-1*** **POLITICAL SCIENCE: PLSHGE** **Credit : 06** **Marks : 75**
2nd Semester	**3& & 4&** HISTORY : HISHCC : CC3 HISTORY : HISHCC : CC4 **Credit : 06+06** **Marks : 75+75**	**Environmental Studies** **ENVIRONMENTAL STUDIES : ENVSAE : AECC2** **Credit : 04** **Marks : 100**			**GE-2*** **POLITICAL SCIENCE: PLSHGE** **Credit : 06** **Marks : 75**
3rd Semester	**5&, 6& & 7&** HISTORY : HISHCC : CC5 HISTORY : HISHCC : CC6 HISTORY : HISHCC : CC7 **Credit : 06+06+06** **Marks : 75+75+75**		**SEC-1&** **HISTORY : HISHSE** **Credit : 02** **Marks : 50**		**GE-3#** **PHILOSOPHY : PHIHGE** **Credit : 06** **Marks : 75**
4th Semester	**8&, 9& & 10&** HISTORY : HISHCC : CC8 HISTORY : HISHCC : CC9 HISTORY : HISHCC : CC10 **Credit : 06+06+06** **Marks : 75+75+75**		**SEC-2&** **HISTORY : HISHSE** **Credit : 02** **Marks : 50**		**GE-4#** **PHILOSOPHY : PHIHGE** **Credit : 06** **Marks : 75**
5th Semester	**11&, 12&** HISTORY : HISHCC : CC11 HISTORY : HISHCC : CC12 **Credit : 06+06** **Marks : 75+75**			**DSE-1& & 2&** **HISTORY : HISHDS : DSE-1** **HISTORY : HISHDS : DSE-2** **Credit : 06+06** **Marks : 75+75**	
6th Semester	**13&, 14&** HISTORY : HISHCC : CC13 HISTORY : HISHCC : CC14 **Credit : 06+06** **Marks : 75+75**			**DSE-3& & 4&** **HISTORY : HISHDS : DSE-3** **HISTORY : HISHDS : DSE-4** **Credit : 06+06** **Marks : 75+75**	

TOTAL CREDIT : 142   TOTAL MARKS : 1900

Students of B.A./B.Com. General Course will have to select 02 Disciplines (Subjects) as course of study and 3rd Discipline is Language Core Course. They have to study One Generic Subject (other than Core Course & Language Core Course -English/Bengali) in 5th & 6th Semester.

Students of B.A./B.Com. General Course have to study 12 Core Courses/Papers (08+04=12)
- **04 Core Papers each in 02 Subjects and**
- **02 Language Core Papers each in English (in 1st Sem & 3rd Sem.) and Bengali/Hindi (in 2nd Sem & 4th Sem.) alternatively and**

In addition they have to study two papers of One Generic Subject in 5th & 6th Sem. (*other than Core Courses & Language Core Course-English/Bengali*), different 02 AECC Courses in different Two semesters (*Bengali/English/Hindi Communication in 1st Sem. and Environmental Studies in 2nd Sem.*), 04 SEC Courses strictly on two subjects, taking exactly two courses from each subject (*related with DSC-1 & DSC-2*) in different Four semesters, 02 papers each from a list of DSE courses based on the different two discipline of choice (*related with DSC-1 & DSC-2*) in different Two semesters during three years.

EXAMPLE →

SUBJECT/DSC-1&	:	EDUCATION (Core Course)
SUBJECT/DSC-2*	:	SANSKRIT (Core Course)
SUBJECT/DSC-3#	:	PHILOSOPHY (Generic - for 5th & 6th Sem.)
SUBJECT-4 (AECC Core/Language Core Course)	:	ENGLISH^ (for 1st & 3rd Sem.), BENGALI$ (for 2nd & 4th Sem.)
AECC (Compulsory)	:	AECC-1 : BENGALI COMMUNICATION (for 1st Sem.)
		AECC-2 : ENVIRONMENAL STUDIES (for 2nd Sem.)

	Core Paper/ Course	Ability Enhancement Compulsory Course (AECC)	Skill Enhancement Course (SEC)	Discipline Specific Elective (DSE)	Generic Elective (GE)
1st Semester	DSC-1A : CC1& DSC-2A : CC2* English: CC3^ (Language Core Course) EDUCATION : EDCGCC : CC1 SANSKRIT : SANGCC : CC2 ENGLISH : ENGCLC : CC3 (AECC Core/LCC) Credit : 06+06+06 Marks : 75+75+75	Bengali / English/Hindi Communication BENGALI COMMUNICATION : BNGMAE : AECC1 Credit : 02 Marks : 50			
2nd Semester	DSC-1B : CC4& DSC-2B : CC5* Bengali : CC6$ (Language Core Course) EDUCATION : EDCGCC : CC4 SANSKRIT : SANGCC : CC5 BENGALI : BNGCLC : CC6 (AECC Core/LCC) Credit : 06+06+06 Marks : 75+75+75	Environmental Studies ENVIRONMENTAL STUDIES : ENVSAE : AECC2 Credit : 04 Marks : 100			
3rd Semester	DSC-1C : CC7& DSC-2C : CC8* English : CC9^ (Language Core Course) EDUCATION : EDCGCC : CC7 SANSKRIT : SANGCC : CC8 ENGLISH : ENGCLC : CC9 (AECC Core/LCC) Credit : 06+06+06 Marks : 75+75+75		SEC-1& EDUCATION : EDCGSE Credit : 02 Marks : 50		
4th Semester	DSC-1D : CC10& DSC-2D : CC11* Bengali : CC12$ (Language Core Course) EDUCATION : EDCGCC : CC10 SANSKRIT : SANGCC : CC11 BENGALI : BNGCLC : CC12 (AECC Core/LCC) Credit : 06+06+06 Marks : 75+75+75		SEC-2& EDUCATION : EDCGSE Credit : 02 Marks : 50		
5th Semester			SEC-3* SANSKRIT : SANGSE : Credit : 02 Marks : 50	DSE-1A& & 2A* EDUCATION : EDCGDS : DSE-1A SANSKRIT : SANGDS : DSE-2A Credit : 06+06 Marks : 75+75	GE-1# DSC-3 : PHILOSOPHY : PHIGGE Credit : 06 Marks : 75
6th Semester			SEC-4* SANSKRIT : SANGSE : Credit : 02 Marks : 50	DSE-1B& & 2B* EDUCATION : EDCGDS : DSE-1B SANSKRIT : SANGDS : DSE-2B Credit : 06+06 Marks : 75+75	GE-2# DSC-3 : PHILOSOPHY : PHIGGE Credit : 06 Marks : 75

TOTAL CREDIT : 122   **TOTAL MARKS : 1700**

Student of B.Sc. General Course will have to select 03 Disciplines (Subjects) as course of study.
Students of B.Sc. General Course have to study 12 Core Courses/papers. In which 04 Core Papers each in 03 Subjects) and
In addition they have to study different 02 AECC Courses in different Two semesters (*Bengali/English/Hindi Communication in 1st Sem. and Environmental Studies in 2nd Sem.*), 04 SEC Courses strictly on at least one from each *DSC-1, DSC-2 & DSC-3* in different Four semesters, 02 papers each from a list of DSE courses based on the different three discipline of choice (*related with DSC-1, DSC-2 & DSC-3*) in different Two semesters during three years.

EXAMPLE		
SUBJECT/DSC-1&	:	PHYSICS (Core Course)
SUBJECT/DSC-2*	:	CHEMISTRY (Core Course)
SUBJECT/DSC-3#	:	MATHEMATICS (Core Course)
AECC (Compulsory)	:	AECC-1 : BENGALI COMMUNICATION (for 1st Sem.)
		AECC-2 : ENVIRONMENAL STUDIES (for 2nd Sem.)

	Core Paper/ Course	Ability Enhancement Compulsory Course (AECC)	Skill Enhancement Course (SEC)	Discipline Specific Elective (DSE)	Generic Elective (GE)
1st Semester	DSC-1A : CC1& DSC-2A : CC2* DSC-3A : CC3# PHYSICS : PHSGCC : CC1 CHEMISTRY : CEMGCC : CC2 MATHEMATICS : MTMGCC : CC3 Credit : 06+06+06 Marks : 75+75+75	Bengali / English/Hindi Communication BENGALI COMMUNICATION : BNGMAE : AECC1 Credit : 02 Marks : 50			
2nd Semester	DSC-1B : CC4& DSC-2B : CC5* DSC-3B : CC6# PHYSICS : PHSGCC : CC4 CHEMISTRY : CEMGCC : CC5 MATHEMATICS : MTMGCC : CC6 Credit : 06+06+06 Marks : 75+75+75	Environmental Studies ENVIRONMENTAL STUDIES : ENVSAE : AECC2 Credit : 04 Marks : 100			
3rd Semester	DSC-1C : CC7& DSC-2C : CC8* DSC-3C : CC9# PHYSICS : PHSGCC : CC7 CHEMISTRY : CEMGCC : CC8 MATHEMATICS : MTMGCC : CC9 Credit : 06+06+06 Marks : 75+75+75		SEC-1& PHYSICS : PHSGSE Credit : 02 Marks : 50		
4th Semester	DSC-1D : CC10& DSC-2D : CC11* DSC-3D : CC12# PHYSICS : PHSGCC : CC10 CHEMISTRY : CEMGCC : CC11 MATHEMATICS : MTMGCC : CC12 Credit : 06+06+06 Marks : 75+75+75		SEC-2* CHEMISTRY : CEMGSE Credit : 02 Marks : 50		
5th Semester			SEC-3# MATHEMATICS : MTMGSE : Credit : 02 Marks : 50	DSE-1A& , 2A* , 3A# PHYSICS : PHSGDS : DSE-1A CHEMISTRY : CEMGDS : DSE-2A MATH : MTMGDS : DSE-3A Credit : 06+06+06 Marks : 75+75+75	
6th Semester			SEC-4 &/*/# **ANY ONE OF** PHYSICS : PHSGSE/ CHEMISTRY : CEMGSE/ MATH : MTMGSE Credit : 02 Marks : 50	DSE-1B& , 2B* , 3B# PHYSICS : PHSGDS : DSE-1B CHEMISTRY : CEMGDS : DSE-2B MATH : MTMGDS : DSE-3B Credit : 06+06+06 Marks : 75+75+75	

TOTAL CREDIT : 122   **TOTAL MARKS : 1700**

COURSE STRUCTURE OF BCA COURSE (CHOICE BASED CREDIT SYSTEM PATTERN – CBCS)

Students of BCA have to study 14 Core Courses/Papers.

In addition, they have to select 04 Generic Courses in different Four semesters and different 02 AECC Course in different Two semesters *(English Communication in 1st Sem. and Environmental Studies in 2nd Sem.)*, 02 SEC in different Two semesters and 04 DSE Courses in different Two semesters during three years.

CORE SUBJECT/COURSE	:	BACHELOR OF COMPUTER APPLICATION – BCA (Core Course)
GE-1	:	Basic Mathematics
GE-2	:	Business Accounting
GE-3	:	Entrepreneurship Development
GE-4	:	Information Security
AECC (Compulsory):		AECC-1 : ENGLISH COMMUNICATION (for 1st Sem.)
		AECC-2 : ENVIRONMENAL STUDIES (for 2nd Sem.)

	Core Paper/ Course	Ability Enhancement Compulsory Course (AECC)	Skill Enhancement Course (SEC)	Discipline Specific Elective (DSE)	Generic Elective (GE)
1st Semester	1 & 2 BCA : CC1 BCA : CC2 Credit : 06+06 Marks : 100+100	English Communication ENGLISH COMMUNICATION : ENGCAE : AECC1 Credit : 02 Marks : 50			GE-1 Basic Mathematics Credit : 06 Marks : 100
2nd Semester	3 & 4 BCA : CC3 BCA : CC4 Credit : 06+06 Marks : 100+100	Environmental Studies ENVIRONMENTAL STUDIES : ENVSAE : AECC2 Credit : 04 Marks : 100			GE-2 Business Accounting Credit : 06 Marks : 100
3rd Semester	5, 6 & 7 BCA : CC5 BCA : CC6 BCA : CC7 Credit : 06+06+06 Marks : 100+100+100		SEC-1 Web Designing OR XML Programming OR Javascript with Node.js/AngularJs Credit : 02 Marks : 50		GE-3 Entrepreneurship Development Credit : 06 Marks : 100
4th Semester	8, 9 & 10 BCA : CC8 BCA : CC9 BCA : CC10 Credit : 06+06+06 Marks : 100+100+100		SEC-2 R-programming / Python Programming / Programming with MATLAB Credit : 02 Marks : 50		GE-4 Information Security Credit : 06 Marks : 100
5th Semester	11, 12 BCA : CC11 BCA : CC12 Credit : 06+06 Marks : 100+100			DSE-1 Java Programming / PHP & .NET / Android Programming DSE-2 Mobile Computing / Cyber Security / Internet of Things Credit : 06+06 Marks : 100+100	
6th Semester	13, 14 BCA : CC13 BCA : CC14 Credit : 06+06 Marks : 100+100			DSE-3 Image Processing & Pattern recognition / Cloud Computing / Data Mining DSE-4 Project / Grand Viva Seminar Presentation Credit : 06+06 Marks : 100+100	

TOTAL CREDIT : 142   TOTAL MARKS : 2450

**Principal
Mahishadal Raj College**