

2018-19

Title	Modules of Syllabus, Classes and Examinations
Session	2018-19 (Even Semester)
Department	B.Sc General in Computer Science
Institution Name	Hiralal Bhakat College, Nalhati, Birbhum, W.B.
Coordinator	Sk Abdul Hanif, SACT in Computer Science

## Details of Courses of B.Sc. General under CBCS

Sl.	Course	Credit		Marks
1.	Core Course (12 Papers) 4 core papers each in 3 disciplines of choice	Theory+Practical $12 \times (4+2) = 72$	Theory+Tutorial $12 \times (5+1) = 72$	$12 \times 75 = 900$
2.	Elective Course DSE ( 6 Papers)	$6 \times (4+2) = 36$	$6 \times (5+1) = 36$	$6 \times 75 = 450$
3	Ability Enhancement Core Course (AECC) AECC-1 (ENVS) AECC-2 (English/MIL)	$4 \times 1 = 4$ $2 \times 1 = 2$	$4 \times 1 = 4$ $2 \times 1 = 2$	100 50
4.	SEC (4 Papers)	$4 \times 2 = 8$	$4 \times 2 = 8$	$4 \times 50 = 200$
	<b>Total Credit:</b>	<b>122</b>	<b>122</b>	<b>1700</b>

## *B.Sc. Computer Science General Course Structure*

Semester	Course Course (CC)	Discipline Specific Elective (DSE)	Ability Enhancement Course	
			AECC (2)	SEC (4)
I	CC1A (Mathematics) CC2A (Physics) CC3A (Computer Sc.)		AECC-1	
II	CC1B (Mathematics) CC2B (Physics) CC3B (Computer Sc.)		AECC-2	
III	CC1C (Mathematics) CC2C (Physics) CC3C (Computer Sc.)			SEC-1 (Mathematics) or SEC-1 (Computer Sc.)
IV	CC1D (Mathematics) CC2D (Physics) CC3D (Computer Sc.)			SEC-2 (Mathematics) or SEC-2 (Computer Sc.)
V		DSE1A (Mathematics) DSE2A (Physics) DSE3A (Computer Sc.)		SEC-3 (Computer Science) or SEC-3 (Physics)
VI		DSE1B (Mathematics) DSE2B (Physics) DSE3B (Computer Sc.)		SEC-4 (Computer Science) or SEC-4 (Physics)

## **Semester-II**

### **Core Course (CC 3B): Database Management Systems**

- Total 75 Marks
- 40 Marks for Semester-end-Examination# (will be organized by University)
- 10+5=15 Marks for Internal Assessment (will be organized by College in general and Department in Particular )
- 10 Marks for Class Test/ Assignment/ Seminar
- 5 Marks for Attendance

Attendance: 50% & above but below 60% - 2 Marks

Attendance: 60% & above but below 75% - 3 Marks

Attendance: 75% & above but below 90% - 4 Marks

Attendance: 90% & Above - 5 Marks

Internal Assessment	Component 1 (C <sub>1</sub> )	Component 2 (C <sub>2</sub> )
Weightage	5 Marks	5 Marks
Number of Questions	5	5
Date	16-04-2019	07-05-2019
Time	1.30 pm	1.30 pm
Syllabus	Introduction to Database Management Systems: Characteristics of database approach, data models, DBMS architecture and data independence. Entity Relationship and Enhanced ER Modeling: Entity types, relationships, SQL- 99: Schema Definition, constraints, and object modeling.	Introduction to Database Management Systems: Characteristics of database approach, data models, DBMS architecture and data independence. Entity Relationship and Enhanced ER Modeling: Entity types, relationships, SQL- 99: Schema Definition, constraints, and object modeling. Relational Data Model: Basic concepts, relational constraints, relational algebra, SQL queries. Database design: ER and EER to relational mapping, functional dependencies, normal forms up to third normal form.
Name Of the Teachers	Sk Abdul Hanif	Sk Abdul Hanif
Number Of Classes	41 (Tentative)	75 (Tentative)

#Component 3 (C<sub>3</sub>)

- Whole Syllabus of CC 1B
- Theory (**Database Management Systems**) = 40 Marks

Answer 05 questions out of 08 carrying 02 marks each =  $05 \times 02 = 10$  marks

Answer 02 questions out of 04 carrying 05 marks each =  $02 \times 05 = 10$  marks

Answer 02 questions out of 04 carrying 10 marks each =  $02 \times 10 = 20$  marks

- Practical (**Software Lab based on Database Management Systems**) = 20 Marks

Laboratory Note Book: 05 Marks

Viva- voce: 05 Marks

Experiment: 10 Marks

- A project File (Minimum 10 Programs) is to be submitted.



**Coordinator  
Science Wing  
Hiralal Bhakat College**



**Head  
Department of *Comp. Science*  
Hiralal Bhakat College  
Nalhati, Birbhum**



**Signature,  
Teacher-in-Charge  
Hiralal Bhakat College  
Nalhati, Birbhum.**

**Teacher-in-Charge  
Hiralal Bhakat College  
Nalhati, Birbhum**

