

CURRICULUM DOCUMENT

Bye - Laws

With

Course Structure

Bachelor of Technology in Computer Science & Engineering

Batch 2019-2023

**DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION
TECHNOLOGY**

School for Computational Sciences & Information Communication
Technology

Mahatma Gandhi Central University, Motihari,
Bihar-845401

Computer Science and Engineering
Curriculum Structure Undergraduate Degree
Batch 2019-2023
Total Credits (4-Year Course): 159
SEMESTER-I (FIRST YEAR)

Sl. No.	Type of Course	Course Code	Course Title	Hours per week			Credits
				Lecture	Tutorial	Practical	
1	BSC	CSET3101	Physics	3	1	0	4
2	BSC	CSET3102	Mathematics-1(Calculus & Linear Algebra)	3	1	0	4
3	ESC	CSET3103	Basic Electrical Engineering	3	1	0	4
4	ESC	CSET3104	Engineering Graphics & Design	1	0	4	3
5	BSC	CSET3105	Physics Lab	0	0	3	1.5
6	ESC	CSET3106	Basic Electrical Engineering Lab	0	0	2	1
Total credits							17.5

SEMESTER II (FIRST YEAR)

Sl. No.	Type of Course	Course Code	Course Title	Hours per week			Credits
				Lecture	Tutorial	Practical	
1	BSC	CHEM3107	Engineering Chemistry	3	1	0	4
2	BSC	CSET3108	Mathematics-II (Probability and Statistics)	3	1	0	4
3	ESC	CSET3109	Programming for Problem Solving using C language	3	0	0	3
4	ESC	CSET3110	Workshop / Manufacturing Practices	1	0	4	3
5	HSMC	CSET3111	English	2	0	2	3
6	BSC	CSET3112	Chemistry Lab	0	0	3	1.5
7	ESC	CSET3113	Programming for Problem Solving using C language Lab	0	0	4	2
Total Credits							20.5

SEMESTER III (SECOND YEAR)

Sl. No.	Type of Course	Corse Code	Course Title	Hours per week			Credits
				Lecture	Tutorial	Practical	
1	ESC	CSET3114	Analog Electronic Circuits	3	0	0	3
2	PCC-CS	CSET3115	Data Structure & Algorithms	3	0	0	3
3	PCC-CS	CSET3116	Digital Electronics	3	0	0	3
4	PCC-CS	CSET3117	IT Workshop	1	0	0	1
5	BSC	CSET3118	Mathematics-III (Differential Calculus)	2	0	0	2
6	HSMC	CSET3119	Humanities-I	3	0	0	3
7	ESC	CSET3120	Analog Electronic Circuits Lab	0	0	4	2
8	PCC-CS	CSET3121	Data Structure & Algorithms Lab	0	0	4	2
9	PCC-CS	CSET3122	Digital Electronics Lab	0	0	4	2
10	PCC-CS	CSET3123	IT Workshop Lab	0	0	4	2
Total Credits							23

SEMESTER IV (SECOND YEAR)

Sl. No.	Type of course	Code	Course Title	Hours per week			Credits
				Lecture	Tutorial	Practical	
1	PCC-CS	CSET3124	Discrete Mathematics	3	1	0	4
2	ESC	CSET3125	Computer Organization & Architecture	3	1	0	4
3	PCC-CS	CSET3126	Operating Systems	3	0	0	3
4	PCC-CS	CSET3127	Design & Analysis of Algorithms	3	1	0	4
5	HSMC	CSET3128	Managemental (Organizational Behavior/ Finance & Accounting)	3	0	0	3
6	MC	CSET3129	Environmental Sciences	-	-	-	0
7	PCC-CS	CSET3131	Operating Systems Lab	0	0	4	2
8	PCC-CS	CSET3132	Design & Analysis of Algorithms	0	0	4	2

			Lab				
Total Credits							22

SEMESTER V (THIRD YEAR)

Sl. No.	Type of course	Code	Course Title	Hours per week			Credits
				Lecture	Tutorial	Practical	
1	ESC	CSET3133	Signals & Systems	3	0	0	3
2	PCC-CS	CSET3134	Database Management Systems	3	0	0	3
3	PCC-CS	CSET3135	Formal Language & Automata Theory	3	0	0	3
4	PCC-CS	CSET3136	Object Oriented Programming	2	0	0	2
5	HSMC	CSET3137	Humanities II	3	0	0	3
6	PEC-CS	Table-A	Elective-I	3	0	0	3
7	MC	CSET3138	Constitution of India/ Essence of Indian Knowledge Tradition	-	-	-	0
8	PCC-CS	CSET3139	Database Management Systems Lab	0	0	4	2
9	PCC-CS	CSET3140	Object Oriented Programming Lab	0	0	4	2
Total Credits							21

SEMESTER VI (THIRD YEAR)

Sl. No.	Type of Course	Course Code	Course Title	Hours per week			Credits
				Lecture	Tutorial	Practical	
1	PCC-CS	CSET3141	Compiler Design	3	0	0	3
2	PCC-CS	CSET3142	Computer Networks	3	0	0	3
3	PEC - CS	Table-A	Elective-II	3	0	0	3
4	PEC - CS	Table-A	Elective-III	3	0	0	3
5	OEC - CS	CSET3143	Open Elective-I (Humanities)	3	0	0	3

6	PROJ-CS	CSET3144	Project-1	0	0	6	3
7	PCC-CS	CSET3145	Compiler Design Lab	0	0	4	2
9	PCC-CS	CSET3146	Computer Networks Lab	0	0	4	2
						Total Credits	22

SEMESTER VII (FOURTH YEAR)

Sl. No.	Type of course	Code	Course Title	Hours per week			Credits
				Lecture	Tutorial	Practical	
1	PEC - CS	Table-A	Elective-IV	3	0	0	3
2	PEC - CS	Table-A	Elective-V	3	0	0	3
3	OEC - CS	Table-B	Open Elective-II	3	0	0	3
4	BSC	CSET3147	Biology	2	1	0	3
5	Project	CSET3148	Project-II	0	0	12	6
						Total Credits	18

SEMESTER VIII (FOURTH YEAR)

[Summer Industry Internship]

Sl. No.	Type of course	Code	Course Title	Hours per week			Credits
				Lecture	Tutorial	Practical	
1	PEC -CS	Table-A	Elective-VI	3	0	0	3
2	OEC -CS	Table-B	Open Elective-III	3	0	0	3
3	OEC -CS	Table-B	Open Elective-IV	3	0	0	3
4	Project	CSET3149	Project-III	0	0	12	6
						Total Credits	15