

# **CURRICULUM DOCUMENT**

## **Bye- Laws**

With

## **Course Structure**

### **Bachelor of Technology in Computer Science & Engineering B.Tech (CSE)**

**Batch 2017-2021**

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**DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION  
TECHNOLOGY**

School for Computational Sciences & Information  
Communication Technology  
Mahatma Gandhi Central University, Motihari,  
Bihar-245401

## B. Tech. (Computer Science & Engineering)

Programme structure for batch admitted in 2017-18 session

### Semester I (First Year)

S.N	Course Code	Course Type	Subject Name	L	T	P	Credits
1	MATH3301	FC	Engineering Mathematics-I	3	1	-	4
2	PHYS3094	FC	Engineering Physics-I	3	-	2	4
3	CSET3003	CC	Computer Programming and Problem Solving	3	1	-	4
4	CSET3004	CC	Computer Programming Lab	-	-	4	2
5	PHYS3096	FC	Electrical and Electronics Engineering	3	-	2	4
6	CSET3005	FC	Technical Communication	2	-	-	2
7	CSET3006	FC	Engineering Graphics	-	-	4	2
<b>Total Credit</b>							<b>22</b>

### Semester II (First Year)

S.N	Course Code	Course Type	Subject Name	L	T	P	Credits
1	MATH3302	FC	Engineering Mathematics-II	3	1	-	4
2	PHYS3095	FC	Engineering Physics-II	3	-	2	4
3	CSET3007	CC	Data Structures	3	1	-	4
4	CSET3008	CC	Data Structures with C Lab	-	-	4	2
5	CHEM3037	FC	Engineering Chemistry	3	-	1	4
6	CSET3009	FC	Engineering Workshop	-	-	4	2
7	SWRK3001	FE	Environmental Studies	2	-	-	2
<b>Total Credits</b>							<b>22</b>

### Semester III (Second Year)

S.N	Course Code	Course Type	Subject Name	L	T	P	Credits
1	CSET3011	CC	Design and Analysis of Algorithms	3	1	-	4
2	CSET3012	CC	Digital Electronics	3	1	-	4
3	CSET3013	CC	Computer Organization & Architecture	3	1	-	4
4	CSET3014	CC	Object Oriented Programming using Java	3	1	-	4
5	CSET3015	CC	Discrete Mathematical Structures	3	1	-	4
6	CSET3036	CC	Object Oriented Programming using Java Lab	-	-	4	2
<b>Total Credits</b>							<b>22</b>

### Semester IV (Second Year)

S.N	Course Code	Course Type	Subject Name	L	T	P	Credits
1	CSET3016	CC	Operating Systems	3	1	-	4
2	CSET3017	CC	Computer Networks	3	1	-	4
3	CSET3018	CC	Theory of Computation	3	1	-	4
4	CSET3019	CC	Database Management Systems	3	1	-	4

5	CSET3020	CC	Database Management Systems Lab	-	-	4	2
6	CSET3021	CC	Seminar	-	-	4	2
<b>Total Credits</b>							<b>20</b>

### Semester V (Third Year)

S.N	Course Code	Course Type	Subject Name	L	T	P	Credits
1	CSET3022	CC	Software Engineering	3	1	-	4
2	CSET3023	CC	Compiler Design	3	1	-	4
3	CSET3024	CC	Computer Graphics	3	1	-	4
4	CSET3025	CC	Computer Graphics Lab	-	-	4	2
5	CSET3026	CC	Artificial Intelligence	3	1	-	4
6	CSET3027	CC	Artificial Intelligence Lab	-	-	4	2
7	CSET3028	CC	Finance and Accounting	2	-	-	2
<b>Total Credits</b>							<b>22</b>

### VI Semester (Third Year)

S.N	Course Code	Course Type	Subject Name	L	T	P	Credits
1	CSET3029	CC	Data Mining	3	1	-	4
2	CSET3030	CC	Machine Learning	3	1	-	4
3	CSET3031	CC	Principles of Soft Computing	3	1	-	4
4	CSET3032	FC	Probability and Statistics	3	1	-	4
5	CSET3033	CC	Minor Project and Seminar	-	-	4	2
6	CSET3034	FE	Constitution of India	2	-	-	2
7	CSET3035	CC	Machine Learning Lab	-	-	4	2
<b>Total Credits</b>							<b>22</b>

### VII Semester (Fourth Year)

S.N	Course Code	Course Type	Subject Name	L	T	P	Credits
1	CSET3036	CC	Advance Data Structure	3	1	-	4
2	CSET3037	CC	Microprocessor	3	1	-	4
3	CSET3038	CC	Project-1	-	-	8	8
4	CSET3039	FC	MOOC Course	4	-	-	4
5	CSET3040	CC	Internship	-	-	4	2
6	CSET3041	CC	Microprocessor Lab	-	-	4	2
<b>Total Credits</b>							<b>24</b>

### VIII Semester (Fourth Year)

S.N	Course Code	Course Type	Subject Name	L	T	P	Credits
1	CSET3042	CC	Project-2	-	-	32	16
2		PEC-CS	Elective-1	3	1	-	4
3		PEC-CS	Elective-2	3	1	-	4
<b>Total Credits</b>							<b>24</b>

### LIST OF ELECTIVES

<b>Course Code</b>	<b>Electives</b>
CSET3043	Internet of Things
CSET3044	Data Analytics
CSET3045	Cryptography & Network Security
CSET3046	Digital Image Processing
CSET3047	Software Engineering
CSET3048	Software Reliability
CSET3049	Software Testing
CSET3050	Distributed System