



SARALA
BIRLA
UNIVERSITY

Established under the Sarala Birla University Act 2017 Govt. of Jharkhand as per Section 2(f)
of UGC Act. 1956

**CURRICULUM
FOR
B.Tech
in
Computer Science & Engineering
(Based on UGC & AICTE- CBCS)
(2020-24)**

Effective from 2020-21

Definition of Credit

1 Hr. Lecture (L) Per Week	1 Credit
1 Hr. Tutorial (T) Per Week	1 Credit
1 Hr. Practical (P) Per Week	0.5 Credit
2 Hr. Practical (P) Per Week	1 Credit

Course Code Definitions

Course code	Definitions
BSC	Basic Science Course
ESC	Engineering Science Course
HSMC	Humanities and Social Sciences including Management Course
MC	Mandatory Course
PCC-CSE	Professional Core Course
PEC-CSE	Professional Electives Course
OEC	Open Electives Course
MOOC'S	Massive Open Online Courses
CSE-P1	Project Stage-I
CSE-P2	Project Stage-II
CSE-P3	Project Stage-III

(Breakup of Credits)

Sl. No.	Category	Breakup of Credits
1	Humanities and Social Sciences including Management courses	12
2	Basic Science courses	23
3	Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc	26
4	Professional core courses	59
5	Professional Elective courses relevant to chosen specialization/branch	34
6	Open subjects – Electives from other technical and /or emerging subjects	19
7	Project work, seminar and internship in industry or elsewhere	16
8	Mandatory Courses [Environmental Sciences, Induction Program, Indian Constitution, Essence of Indian Traditional Knowledge]	2
Total Credits:		191

HUMANITIES & SOCIAL SCIENCES INCLUDING MANAGEMENT COURSE

Sl. No.	Course Code	Course Title	Hours per week			Credits	Preferred Semester
			L	T	P		
1	HSMC-101	English	3	0	0	3	I
2	HSMC-102	Technical Communication	2	0	0	2	II
3	HSMC-103	Technical Communication Lab	0	0	2	1	II
4	HSMC-104	Organisational Behaviour	2	0	0	2	IV
5	HSMC-105	French Through Communicative Approach-I	2	0	0	2	III
6	HSMC-106	French Through Communicative Approach-II	2	0	0	2	IV
Total Credit:						12	

BASIC SCIENCE COURSES

Sl. No.	Course Code	Course Title	Hours Per Week			Credits	Preferred Semester
			L	T	P		
1	BSC-101	Chemistry	3	1	0	4	I
2	BSC-102	Chemistry Lab	0	0	3	1.5	I
3	BSC-103	Physics	3	1	0	4	II
4	BSC-104	Physics Lab	0	0	3	1.5	II
5	BSC-105	Mathematics-I	3	1	0	4	I
6	BSC-106	Mathematics-II	3	1	0	4	II
7	BSC-107	Mathematics-III	3	1	0	4	III
Total Credit:						23	

ENGINEERING SCIENCE COURSES

Sl. No.	Course Code	Course Title	Hours Per Week			Credits	Preferred Semester
			L	T	P		
1	ESC-101	Basic Electrical & Electronics Engineering	3	1	0	4	I
2	ESC-102	Basic Electrical & Electronics Engineering Lab	0	0	2	1	I
3	ESC-103	Introduction to Unix & C Programming	3	1	0	4	I
4	ESC-104	Introduction to Unix & C Programming Lab	0	0	2	1	I
5	ESC-105	Engineering Graphics & Design	1	0	4	3	I
6	ESC-106	Electronic Devices	3	0	0	3	II
7	ESC-107	Electronic Devices Lab	0	0	2	1	II
8	ESC-110	Workshop & Manufacturing Practices	1	0	4	3	II
9	ESC-111	Engineering Mechanics	3	1	0	4	III
10	ESC-113	Python Programming	1	0	2	2	VI
Total Credit:						26	

Professional Core Courses

Branch: Computer Science & Engineering (B.Tech)

Sl. No.	Course Code	Course Title	Hrs. /Week L: T: P	Credits	Preferred Semester
1	PCC-CSE-101	Data Structures	03:01:00	4	II
2	PCC-CSE-102	Data Structures Lab	00:00:02	1	II
Semester-III/IV					
1	PCC-CSE-201	Design & Analysis of Algorithms	03:01:00	4	III
2	PCC-CSE-202	Design & Analysis of Algorithms Lab	00:00:02	1	III
3	PCC-CSE-203	Database Management Systems	03:01:00	4	III
4	PCC-CSE-204	Database Management Systems Lab	00:00:02	1	III
5	PCC-CSE-205	Computer Organization & Architecture	03:01:00	4	IV
6	PCC-CSE-206	Computer Organization & Architecture Lab	00:00:02	1	IV
7	PCC-CSE-207	Discrete Mathematics	03:01:00	4	IV
8	PCC-CSE-208	Operating Systems	03:01:00	4	IV
9	PCC-CSE-209	Operating Systems Lab	00:00:02	1	IV
10	PCC-CSE-210	Object Oriented Programming	03:01:00	4	IV
11	PCC-CSE-211	Object Oriented Programming Lab	00:00:02	1	IV
Semester-V/VI					
1	PCC-CSE-301	Formal Languages & Automata Theory	03:01:00	4	V
2	PCC-CSE-302	IT Workshop (MATLAB)	00:00:02	2	V
3	PCC-CSE-303	Computer Networks	03:01:00	4	V
4	PCC-CSE-304	Computer Networks Lab	00:00:02	1	V
5	PCC-CSE-305	Software Engineering	03:01:00	4	V
6	PCC-CSE-306	Software Engineering Lab	00:00:02	1	V
7	PCC-CSE-307	Compiler Design	03:01:00	4	VI
8	PCC-CSE-308	Computer Graphics & Multimedia	03:01:00	4	VI
9	PCC-CSE-309	Computer Graphics & Multimedia Lab	00:00:02	1	VI
Total Credits:				59	

PROFESSIONAL ELECTIVE COURSES (Sem V & VI)

Branch: Computer Science & Engineering (B.Tech)

Sl. No.	Course Code	Course Title	Hrs./ Week L: T: P	Credits	Preferred Semester
1	PEC-CSE-301	Machine Learning for Real world Applications	03:01:00	4	V/VI
2	PEC-CSE-302	Real Time Systems	03:01:00	4	V/VI
3	PEC-CSE-303	Optimization Techniques	03:01:00	4	V/VI
4	PEC-CSE-304	Parallel & Distributed Systems	03:01:00	4	V/VI
5	PEC-CSE-305	Cryptography & Network Security	03:01:00	4	V/VI
6	PEC-CSE-306	Graph Theory	03:01:00	4	V/VI
7	PEC-CSE-307	Introduction to Multimedia	03:01:00	4	V/VI
8	PEC-CSE-308	Multimedia Lab	00:00:02	1	V/VI
9	PEC-CSE-309	Relational Database Management System	03:01:00	4	V/VI
10	PEC-CSE-310	Distributed Computing	03:01:00	4	V/VI
11	PEC-CSE-311	Object Oriented Analysis & Design	03:01:00	4	V/VI
12	PEC-CSE-312	Object Oriented Analysis & Design Lab	00:00:02	1	V/VI

PROFESSIONAL ELECTIVE COURSES (Sem VII & VIII)

Branch: Computer Science & Engineering(B.Tech)

Sl. No.	Course Code	Course Title	Hrs./ Week L: T: P	Credits	Preferred Semester
1	PEC-CSE-401	Web App Development	03:01:00	4	VI/VIII
2	PEC-CSE-402	Web App Development Lab	00:00:02	1	VII/VIII
3	PEC-CSE-403	Soft Computing	03:01:00	4	VII/VIII
4	PEC-CSE-404	Cyber Security	03:01:00	4	VII/VIII
5	PEC-CSE-405	Bio Inspired Computing	03:01:00	4	VII/VIII
6	PEC-CSE-406	Natural Language Processing	03:01:00	4	VII/VIII
7	PEC-CSE-407	System Programming	03:01:00	4	VII/VIII
8	PEC-CSE-408	System Programming Lab	00:00:02	1	VII/VIII
9	PEC-CSE-409	Bio Informatics	03:01:00	1	VII/VIII
10	PEC-CSE-410	Software Project Management	03:01:00	4	VII/VIII

11	PEC-CSE-411	Big Data Analytics	03:01:00	4	VII/VIII
12	PEC-CSE-412	Digital Image Processing	03:01:00	4	VII/VIII
13	PEC-CSE-413	Digital Image Processing Lab	00:00:02	1	VII/VIII
14	PEC-CSE-414	Pattern Recognition	03:01:00	4	VII/VIII
15	PEC-CSE-415	Pattern Recognition Lab	00:00:02	1	VII/VIII
16	PEC-CSE-416	Mobile & Cellular Communication	03:01:00	4	VII/VIII

Open Elective Course

Branch: Computer Science & Engineering (B.Tech)

Sl. No.	Course Code	Course Title	Hrs. /Week L: T: P	Credits	Preferred Semester
1	OEC-ECE-201	Digital Electronics	03:01:00	4	III
2	OEC-ECE-202	Digital Electronics Lab	00:00:02	1	III
3	OEC-ECE-303	VLSI Desgin	03:01:00	4	V
4	OEC-ECE-304	VLSI Desgin Lab	00:00:02	1	V
5	OEC-ECE-305	Microprocessors & Microcontroller	03:01:00	4	V
6	OEC-ECE-306	Microprocessors & Microcontroller Lab	00:00:02	1	V
7	OEC-ECE-412	Embedded Systems	03:01:00	4	VIII
Total				19	

Project Work

Branch: Computer Science & Engineering (B.Tech)

Sl. No.	Course Code	Course Title	Hrs. /Week L: T: P	Credits	Preferred Semester
1	CSE-P1	Project Stage-I (Mini Project/ Industrial Training)	00:00:04	2	VI
2	CSE-P2	Project Stage-II (Minor Project) (to be continued in next Semester)	00:00:10	5	VII
3	CSE-P3	Project Stage-III (Major Project Work & Dissertation)	00:00:18	9	VIII
Total Credit:				16	

Massive Open Online Courses

Branch: Electronics & Communication Engineering (B.Tech)

Sl. No.	Course Code	Course Title	Hrs./ Week L: T: P	Credits
1	MOOCs -101	Artificial Intelligence for Real-World Applications	03:01:00	4
2	MOOCs -102	Applications of Deep Learning and Neural Networks	03:01:00	4
3	MOOCs -103	Applied Cloud Computing	03:01:00	4
4	MOOCs -104	Information Security - Practitioner's perspective	03:01:00	4
5	MOOCs -105	Innovation and Entrepreneurship	03:01:00	4
6	MOOCs -106	Practical Approach to Data Mining and Analytics	03:01:00	4
7	MOOCs -107	Usability Design of Software Applications	03:01:00	4
8	MOOCs -108	IoT and its Applications	03:01:00	4
9	MOOCs -109	Intelligent Game Design and its Applications	03:01:00	4
10	MOOCs -110	Industrial Mechatronic Systems	03:01:00	4
11	MOOCs -111	Solar Energy Technology and its Applications	03:01:00	4

Note: A student will be eligible to get Under Graduate degree with Honours or additional Minor Engineering, if he/she completes an additional 20 credits. These could be acquired through MOOCs.

Mandatory Courses

Sl. No.	Course Code	Course Title	Hours per week			Credits	Preferred Semester
			L	T	P		
1	MC-101	Induction Program	0	0	0	0	I
2	MC-102	Environmental Science	2	0	0	2	IV
3	MC-103	Values & Ethics	0	0	0	0	IV
4	MC-104	PDP-I	0	0	0	0	I
5	MC-105	PDP-II	0	0	0	0	II
6	MC-106	PDP-III	0	0	0	0	III
7	MC-107	PDP-IV	0	0	0	0	IV
8	MC-108	PDP-V	0	0	0	0	V
9	MC-109	PDP-VI	0	0	0	0	VI
10	MC-110	PT & Games/NSS/NCC-I	0	0	0	0	I
11	MC-111	PT & Games/NSS/NCC-II	0	0	0	0	II
12	MC-112	PDP-VII	0	0	0	0	VII
13	MC-113	PDP-VIII	0	0	0	0	VIII
Total Credit:						2	

COURSE STRUCTURE

SEMESTER I (1st YEAR)

Branch: Computer Science & Engineering (B.Tech)

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Basic Science Course	BSC-101	Chemistry	3	1	0	4	30	70	100
2	Basic Science Course	BSC-105	Mathematics-I	3	1	0	4	30	70	100
3	Engineering Science Course	ESC-101	Basic Electrical & Electronics Engineering	3	1	0	4	30	70	100
4	Engineering Science Course	ESC-103	Introduction to Unix & C Programming	3	1	0	4	30	70	100
5	Humanities and Social Sciences including Management Courses	HSMC-101	English	3	0	0	3	30	70	100
Total(A)							19	150	350	500
Practical/Drawing/Design										
1	Engineering Science Course	ESC-105	Engineering Graphics & Design	1	0	4	3	30	20	50
2	Basic Science Course	BSC-102	Chemistry Lab	0	0	3	1.5	30	20	50
3	Engineering Science Course	ESC-102	Basic Electrical & Electronics Engineering Lab	0	0	2	1	30	20	50
4	Engineering Science Course	ESC-104	Introduction to Unix & C Programming Lab	0	0	2	1	30	20	50
Total(B)							6.5	120	80	200
Mandatory Courses/MOOC'S										
1	Mandatory Course	MC-101	Induction Program	0	0	0	0	0	0	0
2	Mandatory Course	MC-110	PT & Games/NSS/NCC-I	2	0	0	0	0	0	0
3	Mandatory Course	MC-104	PDP-I	2	0	0	0	0	0	0
Total(C)							0	0	0	0
Grand Total (A+B+C)							25.5	270	430	700
L-Lecture, T-Tutorial, P-Practical IA- Internal Assessment, ESE-End Semester Examination										

COURSE STRUCTURE

SEMESTER II (1st YEAR)

Branch: Computer Science & Engineering (B.Tech)

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Basic Science Course	BSC-106	Mathematics –II	3	1	0	4	30	70	100
2	Humanities and Social Sciences including Management Courses	HSMC-102	Technical Communication	2	0	0	2	30	70	100
3	Engineering Science Course	ESC-106	Electronic Devices	3	0	0	3	30	70	100
4	Basic Science Course	BSC-103	Physics	3	1	0	4	30	70	100
5	Professional Core Courses	PCC-CSE-101	Data Structure	3	1	0	4	30	70	100
Total(A)							17	150	350	500
Practical/Drawing/Design										
1	Engineering Science Course	ESC-110	Workshop & Manufacturing Practices	1	0	4	3	30	20	50
2	Engineering Science Course	ESC-107	Electronic Devices Lab	0	0	2	1	30	20	50
3	Basic Science Course	BSC-104	Physics Lab	0	0	3	1.5	30	20	50
4	Humanities and Social Sciences including Management Courses	HSMC-103	Technical Communication Lab	0	0	2	1	30	20	50
5	Professional Core Courses	PCC-CSE-102	Data Structure Lab	0	0	2	1	30	20	50
Total(B)				1	0	13	7.5	150	100	250
Mandatory Courses/MOOC'S										
1	Mandatory Courses	MC-102	Environmental Science	2	0	0	2	30	70	100
2	Mandatory Courses	MC-111	PT & Games/NSS/NCC-I	2	0	0	0	0	0	0
3	Mandatory Courses	MC-105	PDP-II	2	0	0	0	0	0	0
Total(C)							2	30	70	100
Grand Total (A+B+C)							26.5	330	520	850
L-Lecture, T-Tutorial, P-Practical IA- Internal Assessment, ESE-End Semester Examination										

COURSE STRUCTURE

SEMESTER III (2nd YEAR)

Branch: Computer Science & Engineering (B.Tech)

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Basic Science Course	BSC-107	Mathematics-III	3	1	0	4	30	70	100
2	Engineering Science Course	ESC-111	Engineering Mechanics	3	1	0	4	30	70	100
3	Open Elective Course		Open Elective Course-I	3	1	0	4	30	70	100
4	Professional Core Courses	PCC-CSE-201	Design & Analysis of Algorithms	3	1	0	4	30	70	100
5	Professional Core Courses	PCC-CSE-203	Database Management Systems	3	1	0	4	30	70	100
6	Humanities and Social Sciences including Management Courses	HSMC-105	French Through Communicative Approach-I	2	0	0	2	30	70	100
Total(A)							22	180	420	600
Practical/Drawing/Design										
1	Open Elective Course	OEC-ECE-202	Digital Electronics Lab	0	0	2	1	30	20	50
2	Professional Core Courses	PCC-CSE-202	Design & Analysis of Algorithms Lab	0	0	2	1	30	20	50
3	Professional Core Courses	PCC-CSE-204	Database Management Systems Lab	0	0	2	1	30	20	50
Total(B)							3	90	60	150
Mandatory Courses/MOOC'S										
1	Mandatory Courses	MC-103	Values & Ethics	2	0	0	0	0	0	0
2	Mandatory Courses	MC-106	PDP-III	2	0	0	0	0	0	0
Total(C)							0	0	0	0
Grand Total (A+B+C)							25	270	480	750

L-Lecture, T-Tutorial, P-Practical

IA- Internal Assessment, ESE-End Semester Examination

COURSE STRUCTURE

SEMESTER IV (2nd YEAR)

Branch: Computer Science & Engineering (B.Tech)

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Professional Core Course	PCC-CSE-205	Computer Organization & Architecture	3	1	0	4	30	70	100
2	Professional Core Course	PCC-CSE-207	Discrete Mathematics	3	1	0	4	30	70	100
3	Professional Core Course	PCC-CSE-208	Operating Systems	3	1	0	4	30	70	100
4	Professional Core Course	PCC-CSE-210	Object Oriented Programming	3	1	0	4	30	70	100
5	Humanities and Social Sciences including Management Courses	HSMC-104	Organisational Behaviour	2	0	0	2	30	70	100
6	Humanities and Social Sciences including Management Courses	HSMC-106	French Through Communicative Approach-II	2	0	0	2	30	70	100
Total(A)							20	180	420	600
Practical/Drawing/Design										
1	Professional Core Courses	PCC-CSE-206	Computer Organization & Architecture Lab	0	0	2	1	30	20	50
2	Professional Core Courses	PCC-CSE-209	Operating Systems Lab	0	0	2	1	30	20	50
3	Professional Core Courses	PCC-CSE-211	Object Oriented Programming Lab	0	0	2	1	30	20	50
Total(B)							3	90	60	150
Mandatory Courses/MOOC'S										
1	Mandatory Courses	MC-107	PDP-IV	2	0	0	0	0	0	0
Total(C)							0	0	0	0
Grand Total (A+B+C)							23	270	480	750
L-Lecture, T-Tutorial, P-Practical										
IA- Internal Assessment, ESE-End Semester Examination										

COURSE STRUCTURE

SEMESTER V (3rd YEAR)

Branch: Computer Science & Engineering (B.Tech)

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Professional Core Courses	PCC-CSE-301	Formal Languages & Automata Theory	3	1	0	4	30	70	100
2	Professional Core Courses	PCC-CSE-303	Computer Networks	3	1	0	4	30	70	100
3	Professional Core Courses	PCC-CSE-305	Software Engineering	3	1	0	4	30	70	100
4	Open Elective Course-II	OEC-ECE-303	Microprocessors & Microcontroller	3	1	0	4	30	70	100
5	Professional Elective Course		Professional Elective Course-I	3	1	0	4	30	70	100
Total(A)							20	150	350	500
Practical/Drawing/Design										
1	Professional Core Courses	PCC-CSE-302	IT Workshop (MATLAB)	1	0	2	2	30	20	50
2	Professional Core Courses	PCC-CSE-304	Computer Networks Lab	0	0	2	1	30	20	50
3	Professional Core Courses	PCC-CSE-306	Software Engineering Lab	0	0	2	1	30	20	50
4	Open Elective Course		Open Elective Course-II	0	0	2	1	30	20	50
Total(B)							5	120	80	200
Grand Total (A+B)							25	270	430	700
Mandatory Courses/MOOC'S										
1	Mandatory Courses	MC-108	PDP-V	2	0	0	0	0	0	0
Total(C)							0	0	0	0
Grand Total (A+B+C)							25	270	430	700

L-Lecture, T-Tutorial, P-Practical

IA- Internal Assessment, ESE-End Semester Examination

COURSE STRUCTURE

SEMESTER-VI (3rd YEAR)

Branch: Computer Science & Engineering (B.Tech)

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Professional Core Course	PCC-CSE-307	Compiler Design	3	1	0	4	30	70	100
2	Professional Core Course	PCC-CSE-308	Computer Graphics & Multimedia	3	1	0	4	30	70	100
3	Open Elective Course		Open Elective Course-III	3	1	0	4	30	70	100
4	Professional Elective Course		Professional Elective Course-II	3	1	0	4	30	70	100
5	Professional Elective Course		Professional Elective Course-III	3	1	0	4	30	70	100
Total(A)							20	150	350	500
Practical/Drawing/Design										
1	Professional Core Course	PCC-CSE-309	Computer Graphics & Multimedia Lab	0	0	2	1	30	20	50
2	Open Elective Course	OEC-ECE-308	VLSI Desgin Lab	0	0	2	1	30	20	50
3	Engineering Science Course	ESC-113	Python Programming	0	0	2	2	30	20	50
4	Project Work	ECE-P1	Project Stage-I (Mini Project/ Industrial Training)	0	0	4	2	75	25	100
Total(B)							6	165	85	250
Grand Total (A+B)							26	315	435	750
Mandatory Courses/MOOC'S										
1	Mandatory Course	MC-109	PDP-VI	2	0	0	0	0	0	0
Total(C)							0	0	0	0
Grand Total (A+B+C)							26	315	435	750
L-Lecture, T-Tutorial, P-Practical										
IA- Internal Assessment, ESE-End Semester Examination										

COURSE STRUCTURE

SEMESTER VII (4th YEAR)

Branch: Computer Science & Engineering (B.Tech)

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Professional Elective Course		Professional Elective Course-IV	3	1	0	4	30	70	100
2	Professional Elective Course		Professional Elective Course-V	3	1	0	4	30	70	100
3	Professional Elective Course		Professional Elective Course-VI	3	1	0	4	30	70	100
Total(A)							12	90	210	300
Practical/Drawing/Design										
1	Project Work	CSE-P2	Project Stage-II (Major Project)	0	0	10	5	75	25	100
2	Professional Elective Course		Professional Elective Course-IV	0	0	2	1	30	20	50
3	Professional Elective Course		Professional Elective Course-V	0	0	2	1	30	20	50
Total(B)							7	135	65	200
Mandatory Courses/MOOC'S										
1	Mandatory Course	MC-112	PDP-VII	2	0	0	0	0	0	0
Total(C)							0	0	0	0
Grand Total (A+B+C)							19	225	275	500
IA- Internal Assessment, ESE-End Semester Examination										

COURSE STRUCTURE

SEMESTER VIII (4th YEAR)

Branch: Computer Science & Engineering (B.Tech)

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Professional Elective Course		Professional Elective Course-VI	3	1	0	4	30	70	100
2	Professional Elective Course		Professional Elective Course-VII	3	1	0	4	30	70	100
3	Open Elective Course		Open Elective Course-IV	3	1	0	4	30	70	100
Total(A)							12	90	210	300
Practical/Drawing/Design										
1	Project Work	CSE-P3	Project Stage-III (Major Project Work & Dissertation)	0	0	18	9	75	25	100
Total(B)							9	75	25	100
Mandatory Courses/MOOC'S										
1	Mandatory Course	MC-113	PDP-VIII	2	0	0	0	0	0	0
Total(C)							0	0	0	0
Grand Total (A+B+C)							21	165	235	400
L-Lecture, T-Tutorial, P-Practical IA- Internal Assessment, ESE-End Semester Examination										