

CHAITANYA

(DEEMED TO BE UNIVERSITY)

Learning Outcome based Curriculum Framework (LOCF)

For

ELECTRONICS

Undergraduate Program (wef Academic year 2020-2021).



**DEPARTMENT OF PHYSICS AND ELECTRONICS
CHAITANYA (DEEMED TO BE UNIVERSITY)
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B. Sc. (MATHEMATICS and ELECTRONICS) Electronics as one of the Core Subject.**LOCF, CBCS, Course Structure, Scheme of Instructions and Examinations.**

I Year I Semester							
CODE	COURSE TITLE	COUSRE TYPE	HPW	CREDITS	Marks Internal	Marks External	Total Marks
	English	AECC-1	2	2	15	35	50
	Differential Calculus	CC-1A	4	4	30	70	100
	Circuit Analysis	CC-2B	4	4	30	70	100
	Programming in C	CC-3C	4	4	30	70	100
	Basic Computer Skills	AECC-1	2	2	NA	50	50
	Differential Calculus lab	CC-1A-P	3	2	15	35	50
	Electronics Lab	CC-2A-P	3	2	15	35	50
	Programming in C Lab	CC-3A-P	3	2	15	35	50
	Seminars		3	2	15	35	50
	TOTAL		28	24	165	435	600

I Year II Semester							
CODE	COURSE TITLE	COURSE TYPE	HPW	CREDITS	Marks Internal	Marks External	Total Marks
	English	AECC-2	2	2	15	35	50
	Differential Equations	CC-2A	4	4	30	70	100
	Electronics Devices and Circuits	CC-2B	4	4	30	70	100
	Programming in C++	CC-2C	4	4	30	70	100
	Environmental Science	AECC-2	2	2	NA	50	50
	Differential Equations lab	CC-1B-P	3	2	15	35	50
	Electronics Lab	CC-2B-P	3	2	15	35	50
	Programming in C++ lab	CC-3B-P	3	2	15	35	50
	Seminars		3	2	15	35	50
	TOTAL		28	24	165	435	600

SEMESTER – III							
CODE	COURSE TITLE	COURSE TYPE	HPW	CREDIT S	Internal Marks	External Marks	Total Marks
	Open elective	SEC-I	4	4	30	70	100
	Real Analysis	CC-3A	4	4	30	70	100
	Analog Circuits	CC-3B	4	4	30	70	100
	Data structure using C++	CC-3C	4	4	30	70	100
	Real Analysis lab	CC-3A-P	3	2	15	35	50
	Analog Circuits lab	CC-3B- P	3	2	15	35	50
	Data structure using C++ lab	CC-3C-P	3	2	15	35	50
	Seminar		3	2	15	35	50
	TOTAL		28	24	180	420	600

SEMESTER - IV							
CODE	COURSE TITLE	COURSE TYPE	HPW	CREDITS	Internal Marks	External Marks	Total Marks
	Vector Analysis	SEC-II	4	4	30	70	100
	Higher Algebra	CC- 4 A	4	4	30	70	100
	Linear Integrated Circuits	CC- 4 B	4	4	30	70	100
	Database Management	CC-4C	4	4	30	70	100
	Higher Algebra lab	CC-4A-P	3	2	15	35	50
	Linear Integrated Circuits lab	CC4 B - P	3	2	15	35	50
	Database Management Lab	CC-4C-P	3	2	15	35	50
	Seminar		3	2	15	35	50
	TOTAL		28	24	180	420	600

SEMESTER - V							
CODE	COURSE TITLE	COURSE TYPE	HPW	CREDITS	Internal Marks	External Marks	Total Marks
	SEC-IIIB (Communication System/ Electricity and Magnetism / Electronic Instrumentation)	SEC-IIIA	4	4	30	70	100
	Core I	DSE1-A	4	4	30	70	100
	Digital Electronics and Microprocessor 8085	DSE1 - B	4	4	30	70	100
	Core III	DSE1 - C	4	4	30	70	100
	Core I Lab	DSE1 - A - P	4	2	15	35	50
	Digital Electronics and Microprocessor 8085 Lab	DSE1 - B - P	4	2	15	35	50
	Core III Lab	DSE1 - C - P	4	2	15	35	50
	Seminar		3	2	15	35	50
	TOTAL		31	24	180	420	600

SEMESTER - VI							
CODE	COURSE TITLE	COURSE TYPE	HPW	CREDITS	Internal Marks	External Marks	Total Marks
	SEC-IVC	SEC-IVA	4	4	30	70	100
	Core I	DSE2 - A	4	4	30	70	100
	Microcontrollers and Applications	DSE2 - B	4	4	30	70	100
	Core III	DSE2 - C	4	4	30	70	100
	Core I Lab	DSE2 - A - P	4	2	15	35	50
	Microcontrollers and Applications Lab	DSE2 - B - P	4	2	15	35	50
	Core III Lab	DSE2 - C - P	4	2	15	35	50
	Seminar		3	2	15	35	50
	TOTAL		31	24	180	420	600

S.No.	SEMESTER	CREDITS	MARKS
1	I	24	600
2	II	24	600
3	III	24	600
4	IV	24	600
5	V	24	600
6	VI	24	600
		144	3600

AECC: Ability Enhancement Compulsory Course	08 credits
SEC: Skill Enhancement Course	16 credits
CC : Core Compulsory	72 credits
DSE: Discipline Specific Elective	36 credits
Seminars	12 credits
Total	144 credits

Non CGPA Courses 12 credits*

NCC	2 credits	NSS	2 credits
Community Service	2 credits	Extra Curricular activities	2 credits
Farming	2 credits	Sports and Games	2 credits

*Non CGPA courses credits are not counted for CGPA calculation. Student should acquire minimum 4 Non CGPA credits to get degree.