V.S.B. ENGINEERING COLLEGE, KARUR REGULATIONS 2023
B. TECH. INFORMATION TECHNOLOGY

CURRICULA FOR SEMESTERS I TO VIII AND SYLLABI FOR SEMESTERS I TO VIII

SEMESTER I

S.No	COURSE CODE	COURSE TITLE	CATEGORY	Int/Ext	L	T	P	TOTAL CONTACT PERIODS	CREDITS
1	23IP101	Induction Programme			-	-	-	-	0
THEORY									
2	23HST101	Professional English - I	HSMC	40/60	3	0	0	3	3
3	23MAT101	Matrices and Calculus	BSC	40/60	3	1	0	4	4
4	23PHT101	Engineering Physics	BSC	40/60	3	0	0	3	3
5	23CYT101	Engineering Chemistry	BSC	40/60	3	0	0	3	3
6	23GET101	Programming in C	ESC	40/60	3	0	0	3	3
7	23GET102	தமிழர் மரபு /Heritage of Tamils	HSMC	40/60	1	0	0	1	1
PRACTICALS									
8	23GEP101	Programming in C Laboratory	ESC	60/40	0	0	4	4	2
9	23BSP101	Physics and Chemistry Laboratory	BSC	60/40	0	0	4	4	2
10	23HSP102	English Laboratory $	EEC	60/40	0	0	2	2	1
			TOTAL	**900**	**16**	**1**	**10**	**27**	**22**

$ Skill Based Course

SEMESTER II

S.No	COURSE CODE	COURSE TITLE	CATEGORY	Int/Ext	L	T	P	TOTAL CONTACT PERIODS	CREDITS
THEORY									
1	23HST201	Professional English - II	HSMC	40/60	2	0	0	2	2
2	23MAT201	Computational Methods	BSC	40/60	3	1	0	4	4
3	23PHT201	Physics for Information Science	BSC	40/60	3	0	0	3	3
4	23BET204	Basic Electrical and Electronics Engineering	ESC	40/60	3	0	0	3	3
5	23GET201	Engineering Graphics	ESC	40/60	2	0	4	6	4
6	23CST201	Problem Solving and Python Programming	PCC	40/60	3	0	0	3	3
7	23GET202	தமிழரும் தொழில் நுட்பமும் /Tamils and Technology	HSMC	40/60	1	0	0	1	1
PRACTICALS									
8	23GEP201	Engineering Practices Laboratory	ESC	60/40	0	0	4	4	2
9	23CSP201	Problem Solving and Python Programming Laboratory	PCC	60/40	0	0	4	4	2
10	23GEP202	Communication Laboratory / Foreign Language $	EEC	100/-	0	0	4	4	2
			TOTAL	**1000**	**17**	**1**	**16**	**34**	**26**

 # NCC Credit Course level 1 is offered for NCC students only. The grades earned by the students will be recorded in the Mark Sheet, however the same shall not be considered for the computation of CGPA. $ Skill Based Course

SEMESTER III

S.No	COURSE CODE	COURSE TITLE	CATEGORY	Int/Ext	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
					L	T	P		
THEORY									
1	23MAT302	Discrete Mathematics	BSC	40/60	3	1	0	4	4
2	23CST301	Digital Principles and Computer Organization	ESC	50/50	3	0	2	5	4
3	23CST302	Foundations of Data Science	PCC	40/60	3	0	0	3	3
4	23ITT301	Data Structures and Algorithms	PCC	40/60	3	0	0	3	3
5	23CST304	Object Oriented Programming	PCC	40/60	3	0	0	3	3
PRACTICALS									
6	23ITP301	Data Structures and Algorithms Laboratory	PCC	60/40	0	0	4	4	2
7	23CSP302	Object Oriented Programming Laboratory	PCC	60/40	0	0	3	3	1.5
8	23CSP303	Data Science Laboratory	PCC	60/40	0	0	4	4	2
9	23GEP301	Professional Development$	EEC	100/-	0	0	2	2	1
				TOTAL	**900**	**15**	**1**	**15**	**31**	**23.5**

$**Skill Based Course**

SEMESTER IV

S.No	COURSE CODE	COURSE TITLE	CATEGORY	Int/Ext	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
					L	T	P		
THEORY									
1	23CST401	Theory of Computation	PCC	40/60	3	0	0	3	3
2	23ALT402	Artificial Intelligence and Machine Learning	PCC	50/50	3	0	2	5	4
3	23CST403	Database Management Systems	PCC	40/60	3	0	0	3	3
4	23ITT401	Web Essentials	PCC	50/50	3	0	2	5	4
5	23CST406	Introduction to Operating Systems	PCC	40/60	3	0	0	3	3
6	23GET401	Environmental Science and Engineering	BSC	40/60	2	0	0	2	2
7		NCC Credit Course Level 2#	-		3	0	0	3	3#
PRACTICALS									
8	23CSP401	Operating Systems Laboratory	PCC	60/40	0	0	4	4	1.5
9	23CSP402	Database Management Systems Laboratory	PCC	60/40	0	0	3	3	1.5
				TOTAL	**800**	**20**	**0**	**10**	**30**	**22**

NCC Credit Course level 2 is offered for NCC students only. The grades earned by the students will be recorded in the Mark Sheet, however the same shall not be considered for the computation of CGPA.

SEMESTER V

S.No	COURSE CODE	COURSE TITLE	CATEGORY	Int/Ext	L	T	P	TOTAL CONTACT PERIODS	CREDITS
THEORY									
1	23CST501	Computer Networks	PCC	50/50	3	0	2	5	4
2	23ITT501	Full Stack web Development	PCC	40/60	3	0	0	3	3
3	23CST504	Distributed Computing	PCC	40/60	3	0	0	3	3
4	23CST503	Embedded Systems and IoT	PCC	50/50	3	0	2	5	4
5		Professional Elective I	PEC	40/60	-	-	-	-	3
6		Professional Elective II	PEC	40/60	-	-	-	-	3
7		Mandatory Course- I **&**	MC		3	0	0	3	0
PRACTICALS									
8	23ITP501	Full Stack web Development Laboratory	PCC	60/40	0	0	4	4	2
			TOTAL	800	-	-	-	-	**22**

& Mandatory Course-I is a Non-credit Course (Student shall select one course from the list given underMandatory Course-I)

SEMESTER VI

S.No	COURSE CODE	COURSE TITLE	CATEGORY	Int/Ext	L	T	P	TOTAL CONTACT PERIODS	CREDITS
THEORY									
1	23CST601	Object Oriented Software Engineering	PCC	50/50	3	0	2	5	4
2		Open Elective – I*	OEC	40/60	3	0	0	3	3
3		Professional Elective III	PEC	40/60	-	-	-	-	3
4		Professional Elective IV	PEC	40/60	-	-	-	-	3
5		Professional Elective V	PEC	40/60	-	-	-	-	3
6		Professional Elective VI	PEC	40/60	-	-	-	-	3
7		Mandatory Course-II **&**	MC		3	0	0	3	0
8		NCC Credit Course Level 3**#**	-		3	0	0	3	3 #
PRACTICALS									
9	23ITP601	Mobile Application Development Laboratory	PCC	60/40	0	0	3	3	1.5
10	23ITP602	Mini Project	EEC	100/-	0	0	4	2	2
			TOTAL	800	-	-	-	-	**22.5**

*Open Elective – I Shall be chCSOn from the list of open electives offered by other Programmes
& Mandatory Course-II is a Non-credit Course (Student shall select one course from the list given underMandatory Course-II)

 # NCC Credit Course level 3 is offered for NCC students only. The grades earned by the students will berecorded in the Mark Sheet, however the same shall not be considered for the computation of CGPA

SEMESTER VII / VIII*

S.No	COURSE CODE	COURSE TITLE	CATEGORY	Int/Ext	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
					L	T	P		
THEORY									
1	23CST701	Human Values and Ethics	HSMC	40/60	2	0	0	2	2
2		Elective - Management#	HSMC	40/60	3	0	0	3	3
3		Open Elective – II**	OEC	40/60	3	0	0	3	3
PRACTICALS									
5	23ITP701	Summer Internship	EEC	60/40	0	0	0	0	2
6	23ITP702	Project Work Phase I	EEC	60/40	0	0	8	8	4
				TOTAL	**500**	**8**	**0**	**8**	**16**	**14**

*If students undergo internship in Semester VII, then the courses offered during semester VII will beoffered during semester VIII.

** Open Elective II - IV (Shall be chCSOn from the list of open electives offered by other Programmes).
 # Elective - Management shall be chCSOn from the Elective Management courses.

SEMESTER VIII /VII*

S.No	COURSE CODE	COURSE TITLE	CATEGORY	Int/Ext	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
					L	T	P		
THEORY									
1		Open Elective – III**	OEC	40/60	3	0	0	3	3
2		Open Elective – IV**	OEC	40/60	3	0	0	3	3
PRACTICALS									
3	23ITP801	Project Work Phase II	EEC	60/40	0	0	10	12	6
				TOTAL	300	**6**	**0**	**10**	**18**	**12**

*If students undergo internship in Semester VII, then the courses offered during semester VII will beoffered during semester VIII.

TOTAL CREDITS: 164