## VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI B.E. in Artificial Intelligence and Machine Learning

Scheme of Teaching and Examinations2021

Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2021 - 22)

III SEMESTER

NCMC

21MATDIP31

Additional Mathematics - I

			Course Title		Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination				
SI. No	Course a					Theory	→ Tutorial	Practical/ Drawing	ه Self -Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
	BSC		Transform Calculus, Fourier Series		Nasha			100				<b>—</b>		_
1	21MAT31	L ai	and Numerical Techniques		Maths	3	0	0		03	50	50	100	3
2	IPCC 21CS32	D	Data Structures and its Applications			3	0	2		03	50	50	100	4
3	IPCC 21CS33	А	Analog and Digital Electronics		Any CS Board Department	3	0	2		03	50	50	100	4
4	PCC 21CS34	1	Computer Organization and Architecture			3	0	0		03	50	50	100	3
5	PCC 21CSL35	1		t Oriented Programming with Laboratory	1	0	0	2		03	50	50	100	1
6	UHV 21UH36	Sc	cial	Connect and Responsibility	Any Department	0	0	1		01	50	50	100	1
	HSMC 21KSK37/ HSMC	47 Sa	Samskrutika Kannada											
7	21KBK37/47		Balake Kannada OR		TD and PSB: HSMC	1	0	0		01	50	50	100	1
	HSMC 21CIP37/4		Constitution of India and Professional Ethics											
	AEC		Ability Enhancement Course - III		TD: Concerned department PSB: Concerned	If offered as Theory Course				01	50	50	100	1
8	21CS38X/	21 At				1 0 0								
	CSL38X				Board	0 If offe	ered as lab. course		02				-	
						0				Total 4	400	400	800	18
				17						Total	400	400	300	10
	for	NMD0 21NS8		National Service Scheme (NSS)	NSS	All students have to regist National Service Scheme, Athletics) and Yoga with th			ne, P	hysical concern	Educati ed coor	ion (Pi dinator	E)(Sports of the co	and urse
9	activities semeste	NMDC 21PE8		Physical Education (PE) (Sports and Athletics)	PE	during the first week of III semester. The activities shall be carried out from (for 5 semesters) between III semester to VIII semester. SEE in the above courses shall be conducted during VIII semester.								
	Scheduled activities for III to VIII semesters	NMDC 21YO8	3	Yoga	Yoga	examinations and the accumulated CIE marks shall be added to the SEE marks. Successful completion of the registered course is mandatory for the award of the degree.  The events shall be appropriately scheduled by the colleges and the same shall be reflected in the colander prepared for the NSS, PE and Yoga activities.								the e is the
		Cou	rse	prescribed to lateral entry Di	ploma holders ad	mitted to	III sem	ester B	.E./B	.Tech p	rogram	ıs		
1		1								1				

Note: BSC: Basic Science Course, IPCC: Integrated Professional Core Course, PCC: Professional Core Course, INT –Internship, HSMC: Humanity and Social Science & Management Courses, AEC—Ability Enhancement Courses. UHV: Universal Human Value Course.

Maths

02

02

100

100

O

L –Lecture, T – Tutorial, P- Practical/ Drawing, S – Self Study Component, CIE: Continuous Internal Evaluation, SEE: Semester End Examination. TD-Teaching Department, PSB: Paper Setting department

21KSK37/47 Samskrutika Kannada is for students who speak, read and write Kannada and 21KBK37/47 Balake Kannada is for non-Kannada speaking, reading, and writing students.

Integrated Professional Core Course (IPCC): Refers to Professional Theory Core Course Integrated with Practical's of the same course. Credit for IPCC can be 04 and its Teaching—Learning hours (L:T:P) can be considered as (3:0:2) or (2:2:2). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPCC shall be included in the SEE question paper. For more details, the regulation governing the Degree of Bachelor of Engineering /Technology (BE/B.Tech.) 2021-22 may be referred.

21INT49 Inter/Intra Institutional Internship: All the students admitted to engineering programs under the lateral entry category shall have to undergo a mandatory 21INT49 Inter/Intra Institutional Internship of 03 weeks during the intervening period of III and IV semesters. The internship shall be slated for CIE only and will not have SEE. The letter grade earned through CIE shall be included in the IV semester grade card. The internship shall be considered as a head of passing and shall be considered for vertical progression and for the award of degree. Those, who do not take up / complete the internship shall be declared fail and shall have to complete during subsequently after satisfying the internship requirements. The faculty coordinator or mentor shall monitor the students' internship progress and interact with them for the successful completion of the internship.

## Non-credit mandatory courses (NCMC):

## (A) Additional Mathematics I and II:

- (1) These courses are prescribed for III and IV semesters respectively to lateral entry Diploma holders admitted to III semester of B.E./B.Tech., programs. They shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the Continuous Internal Evaluation (CIE). In case, any student fails to register for the said course/fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured an F grade. In such a case, the student has to fulfill the course requirements during subsequent semester/s to earn the qualifying CIE marks. These courses are slated for CIE only and has no SEE.
- (2) Additional Mathematics I and II shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the courses shall be mandatory for the award of degree.
- (3) Successful completion of the courses Additional Mathematics I and II shall be indicated as satisfactory in the grade card. Non-completion of the courses Additional Mathematics I and II shall be indicated as Unsatisfactory.
- (B) National Service Scheme/Physical Education (Sport and Athletics)/ Yoga:
- (1) Securing 40 % or more in CIE,35 % or more marks in SEE and 40 % or more in the sum total of CIE + SEE leads to successful completion of the registered course.
- (2) In case, students fail to secure 35 % marks in SEE, they have to appear for SEE during the subsequent examinations conducted by the University.
- (3) In case, any student falls to register for NSS, PE or Yoga/falls to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have not completed the requirements of the course. In such a case, the student has to fulfill the course requirements during subsequent semester/s to earn the qualifying CIE marks.
- (4) Successful completion of the course shall be indicated as satisfactory in the grade card. Non-completion of the course shall be indicated as Unsatisfactory.
- (5) These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the courses shall be mandatory for the award of degree.

,	bility Enhancement Course - III	
astering Office	21CS383	
ogramming in C++	21CS384	
-	astering Office	astering Office 21CS383

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