

## **FACULTY OF**

## **ENGINEERING & TECHNOLOGY**

### **COURSE STRUCTURE** (Choice Based Credit System)

# Minor Degree Computer Programming Engineering Information Technology

Effective from Academic Year: 2022-23

Opp. Shastri Maidan, Beside BVM College, Vallabh Vidyanagar, Dist: Anand, Gujarat - 388120 (O): 02692-238001 | Email: adminoffice@cvmu.edu.in | www.cvmu.edu.in



Faculty Name:

Engineering & Technology

Programme Name:

Minor Degree (Computer Programming)

#### Programme Structure Summary

		SE	EMES	FER 3							
			Те	achin	g Sch	eme	INT(T)	EXT( T)	INT( P)	EXT( P)	Grand
Course Group Minor	Course Name	Cr	Т	Р	T u	Con t. Hrs	Max./ Passin g	Max. / Passi ng	Max. / Passi ng	Max. / Passi ng	Total Max./ Passing
Minor Core	Advance C Programming	4	3	2	0	5	50/18	50/1 7	25/0 9	25/0 9	150 / 53

		SE	EMES	ΓER 4							
			Te	achin	ıg Sch	eme	INT(T)	EXT(	INT(	EXT(	Grand
Course Group	Course Name	Cr	Т	Р	T u	Con t. Hrs	INT(T)         EXT( T)         INT( P)         EXT( P)         INT( P)         EXT( P)           Max./         Max.         Max.         Max.         Max.           Passin         /         /         /         /         /           g         Passi         Passi         Passi         Passi         Passi         Passi           ng         ng         ng         ng         ng         1         1           50/18         50/1         25/0         25/0         1         1	INT(T)T)P)P)Max./Max.Max.Max.Passin///gPassiPassiPassingngngng		Total Max./ Passing	
Minor Core	Fundamental of Database Management System	4	3	2	0	5	50/18	50/1 7	25/0 9	25/0 9	150 / 53

		SE	EMES	ΓER 5							
			Te	eachin	ıg Sch	eme	INT(T)	EXT(	INT(	EXT(	Grand
Course Group	Course Name	Cr	Т	ESTER 5       ESTER 5       Teaching Scheme     INT(T)     EXT(       T     P     T     Con     INT(T)     Max./       T     P     T     Con     Max./     Passin       Hrs     P     S     S     S       3     2     0     5     S     S	Max. / Passi ng	Max. / Passi ng	Total Max./ Passing				
Minor Core	Python Programming	4	3	2	0	5	50/18	50/1 7	25/0 9	25/0 9	150 / 53

		SI	EMES	ΓER 6							
			Te	eachir	ıg Sch	eme	INT(T)	EXT(	INT( P)	EXT(	Grand
Course Group	Course Name	SEMESTER 6neTeaching SchemeEXT(INT()EXT(INT()EXT()INT()EXT()INT()P)P)neCrTPTConINT(T)Max./Max.Max.Max.Max.Degies4320550/1850/125/025/09CCT20404NANA50 /50 /17	Total Max./ Passing								
Minor Core	Web Technologies	4	3	2	0	5	50/18	50/1 7	25/0 9	25/0 9	150 / 53
Minor Project	MINI-PROJECT	2	0	4	0	4	NA	NA	50 / 18	50 / 17	100 / 35



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### **Programme Outcomes**

PO-1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO-2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences
PO-3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO-4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO-5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO-6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO-7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO-8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO-9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO-10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO-11	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.



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PO-12	Life-long learning: Recognize the need for, and have the preparation and ability to engage
	in independent and life-long learning in the broadest context of technological change.

	Faculty Name:	Engineering & Technology
Augle Charles Wiley Model (Centrol Viley Andread	Programme Name:	Minor Degree (Computer Programming)
	Semester:	III Academic Batch: 2022-2023

Course Group	Board of Studies / Faculty	Course Code	Course Name	Cr	Teaching Scheme			Assessmen t/Evaluatio n Type		Extern al Exam Duratio n (Hrs.)		INT(T) Max./ Passin	EXT( T) Max. /	INT( P) Max. /	EXT( P) Max. /	Grand Total Max./	
	Ownership				Т	Р	T u	Con t. Hrs	Т	Р	Т	Р	g	Passi ng	Passi ng	Passi ng	Passing
Minor Core	Computer Engineering	202160301	ADVANCED C PROGRAMMING	4	3	2	0	5	Т	Р	2. 5 0	2	50/18	50/1 7	25/0 9	25/0 9	150 / 53

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 [Chairman - Board of Studies]:
 [Dean / Director]:

	Faculty Name:	Engineering & Technolog	3У		
CVM UNIVERSITY Age Control Mark Mark	Programme Name:	Minor Degree (Computer	r Programming)		
	Semester:	IV		Academic Batch:	2022-2023

Course Group	Board of Studies / Faculty Ownership	Course Code	Course Name	Cr	Teaching Scheme			Assessmen t/Evaluatio n Type		Extern al Exam Duratio n (Hrs.)		INT(T) Max./ Passin	EXT( T) Max. /	INT( P) Max. /	EXT( P) Max. /	Grand Total Max./	
					Т	Р	T u	Con t. Hrs	Т	Р	Т	Р	g P	Passi ng	Passi ng	ng	Passing
Minor Core	Computer Engineering	202160401	Fundamental of Database Management System	4	3	2	0	5	Т	Р	2. 5 0	2	50/18	50/1 7	25/0 9	25/0 9	150 / 53

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Name & Sign [Dean / Director]:

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	Faculty Name:	Engineering & Technology			
Terr CVCN UNIVERSITY Age: Charata Ways Model (Sent 1944)	Programme Name:	Minor Degree (Computer Pr	rogramming)		
	Semester:	V		Academic Batch:	2022-2023

Course Group	Board of Studies / Faculty Ownership	Course Code	Course Name	Cr	Teaching Scheme				Assessmen t/Evaluatio n Type		Extern al Exam Duratio n (Hrs.)		INT(T) Max./ Passin	EXT( T) Max. /	INT( P) Max. /	EXT( P) Max. /	Grand Total Max./
					Т	Р	T u	Con t. Hrs	Т	Р	Т	Р	g	Passi ng	Passi ng	Passi ng	Passing
Minor Core	Computer Engineering	202160501	Python Programming	4	3	2	0	5	Т	Р	2. 5 0	2	50/18	50/1 7	25/0 9	25/0 9	150 / 53

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Name & Sign [Dean / Director]:

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	Faculty Name:	Engineering & Technolog	3У		
Argie: Charena Wilya Mandel (Enel 1947)	Programme Name:	Minor Degree (Computer	r Programming)		
	Semester:	VI		Academic Batch:	2022-2023

Course Group	Board of Studies / Faculty Ownership	Course Code	Course Name	Cr	Teaching Scheme		Assessmen t/Evaluatio n Type		Extern al Exam Duratio n (Hrs.)		INT(T) Max./ Passin	EXT( T) Max. /	INT( P) Max. /	EXT( P) Max. /	Grand Total Max./		
					Т	Р	T u	Con t. Hrs	Т	Р	Т	Р	g	Passi ng	Passi ng	Passi ng	Passing
Minor Core	Computer Engineering	202160601	Web Technologies	4	3	2	0	5	Т	Р	2. 5 0	2	50/18	50/1 7	25/0 9	25/0 9	150 / 53
Minor Project	Computer Engineering	202990601	Mini-Project	2	0	4	0	4	NA	Р	N A	2	NA	NA	50/1 7	50/1 8	100/35

Name & Sign [Chairman - Board of Studies]:

Name & Sign [Dean / Director]: