

Maharashtra State Board of Technical Education, Mumbai
TEACHING PLAN (TP)

Academic Year: 2025-26 (EVEN)

Institute Code and Name: 0078- K K Wagh Polytechnic, Nashik

Programme and Code: Information Technology (IF)

Course and Code: Programming In C (PIC)

Scheme: K Allocated Hrs. 60 Name of Faculty: Mr. S. S. Dhoot

Semester: Second

Course Index: 203

Course Code: 312303

Class: FYIF (Param)

COURSE LEVEL LEARNING OUTCOMES (COS)

- CO1 - Develop C program using input - output functions and arithmetic expressions
- CO2 - Develop C program involving branching and looping statements
- CO3 - Implement Arrays and structures using C programs
- CO4 - Develop C program using user-defined functions
- CO5 - Write C program using pointer

TEACHING-LEARNING & ASSESSMENT SCHEME

Course Code	Course Title	Abbr	Course Category	Learning Scheme			Credits	Paper Duration	Assessment Scheme										Total Marks			
				Actual Contact Hrs/Week		SLH			Theory			Based on LL & TSL Practical				Based on SL						
				CL	TL				FA - TH	SA - TH	Total	FA-PR	SA-PR	SLA	Max	Min	Max	Min				
				Max	Max				Max	Max	Max	Max	Max	Max	Max	Min	Min	Max	Min			
312303	Programming In C	PIC	AEC	4	1	4	1	10	5	3	30	70	100	40	50	20	50#	20	25	10	225	

Total IKS Hrs for Sem.: 0 Hrs

Abbreviations: CL- Classroom Learning , TL- Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH-Notional Learning Hours, FA - Formative Assessment, SA -Summative assessment, IKS - Indian Knowledge System, SLA - Self Learning

Assessment Legends: @ Internal Assessment, # External Assessment, *# On Line Examination , @\\$ Internal Online Examination

SUGGESTED COS - POS MATRIX FORM

Course Outcomes (COs)	Programme Outcomes (POs)							Programme Specific Outcomes (PSOs)	
	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/Development of Solutions	PO-4 Engineering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life Long Learning	PSO- 1	PSO- 2
CO1	3	2	2	1	-	-	1	2	1
CO2	2	3	3	2	-	-	2	2	1
CO3	2	3	3	3	-	2	2	2	2
CO4	1	3	3	3	1	2	3	2	1
CO5	1	3	3	3	1	1	3	2	1

Legends :- High:03, Medium:02,Low:01, No Mapping: -

*PSOs are formulated at institute level

Maharashtra State Board of Technical Education, Mumbai
TEACHING PLAN (TP)

Academic Year: 2025-26 (EVEN)

Institute Code and Name: 0078- K K Wagh Polytechnic, Nashik

Programme and Code: Information Technology (IF)

Course and Code: Programming In C (PIC)

Scheme: K Allocated Hrs. 60 Name of Faculty: Mr. S. S. Dhoot

Semester: Second

Course Index: 203

Course Code: 312303

Class: FYIF (Param)

Unit No. (Allocated Hrs.)	CO	TLO aligned to CO's	Title/Details	Plan (No. of Lectures)		Actual Executio		Pedagogy Used	Remark		
				From	To	From	To				
1 (10)	1	1.1	Fundamentals of Algorithms Structure of C Program	02				PPT, ERA,AI Tools			
		1.2		15/12/25	17/12/25						
		1.3	Fundamental Construct of C	02							
		1.4		18/12/25	19/12/25						
		1.5	Basic Input / Output Functions	02							
				20/12/25	24/12/25						
2 (14)	2	1.5	Assignment and Expressions	04				PPT, ERA,AI Tools			
				26/12/25	31/12/25						
		2.1	Conditional Statements	6							
				1/1/26	8/1/26						
3 (12)	3	2.2	Looping Statements	6				PPT, ERA,AI Tools			
				9/1/26	16/1/26						
		2.3	Branching Statements	2							
				17/1/26	19/1/26						
		3.1	Array Types and Characteristics	2							
				21/1/26	22/1/26						
4 (12)	4	3.2	Array Declaration and Initialization	2				PPT, ERA,AI Tools			
				23/1/26	24/1/26						
		3.3	Operations on Array	2							
				30/1/26	31/1/26						
		3.4	Character and String Functions	2							
				2/2/26	4/2/26						
4 (12)	4	3.5	Structure Declaration, Array of Structure Type Def, Enumerated Type	4				PPT, ERA,AI Tools			
		3.6		5/2/26	7/2/26						
		4.1	Concept and Need Of Function	2							
				11/2/26	12/2/26						
		4.2	Library Function	2							
				13/2/26	14/2/26						
4 (12)	4	4.3	User Defined Function	3				PPT, ERA,AI Tools			
				16/2/26	20/2/26						
4 (12)	4	4.4	Function Parameters Recursive Function	5				PPT, ERA,AI Tools			
		4.5		21/2/26	28/2/26						

Maharashtra State Board of Technical Education, Mumbai
TEACHING PLAN (TP)

Academic Year: 2025-26 (EVEN)

Institute Code and Name: 0078- K K Wagh Polytechnic, Nashik

Programme and Code: Information Technology (IF)

Course and Code: Programming In C (PIC)

Scheme: K Allocated Hrs. 60 Name of Faculty: Mr. S. S. Dhoot

Semester: Second

Course Index: 203

Course Code: 312303

Class: FYIF (Param)

Unit No. (Allocated Hrs.)	CO	TLO aligned to CO's	Title/Details	Plan (No. of Lectures)		Actual Execution		Pedagogy Used	Remark		
				Actual	Execution	From	To				
5 (12)	5	5.1	Introduction to Pointers	2		2/3/26	4/3/26	PPT, ERA,AI Tools			
		5.2	Pointer Arithmetic	2							
		5.3	Pointer to Array	2		7/3/26	11/3/26				
		5.4	Pointer and String	2							
		5.5	Function handling using Pointers	2		16/3/26	20/3/26				
		5.6	Pointers to Structures	2							

ASSESSMENT METHODOLOGIES/TOOLS

A. Formative assessment (Assessment for Learning) (FA-TH)

Continuous assessment based on process and product related performance indicators. Each practical will be assessed considering 60% weightage is to process & 40% weightage to product

B. Summative Assessment (Assessment of Learning) (SA-TH)

End semester Examination, Lab performance, Viva-Voce

C. Suggested micro project / assignment/ activities for specific learning / skills development (self-learning)

1. Complete any one course related to Programming in C on Infosys Springboard
2. Develop C language code for relevant topics suggested by the teacher

SUGGESTED LEARNING MATERIALS / BOOKS

Sr. No	Author	Title	Publisher with ISBN Number
1	E. Balaguruswamy	Programming in ANSI 'C'	Mcgraw Hill Publications ISBN 0070534772
2	Yashwant Kanetkar	Let us 'C'	BPB Publication ISBN 9788183331630
3	David Griffiths, Dawn Griffiths	Head First C	O'Reilly Media, Inc. ISBN: 9781449345013

Maharashtra State Board of Technical Education, Mumbai
TEACHING PLAN (TP)

Academic Year: 2025-26 (EVEN)

Institute Code and Name: 0078- K K Wagh Polytechnic, Nashik

Programme and Code: Information Technology (IF)

Course and Code: Programming In C (PIC)

Scheme: K Allocated Hrs. 60 Name of Faculty: Mr. S. S. Dhoot

Semester: Second

Course Index: 203

Course Code: 312303

Class: FYIF (Param)

LEARNING WEBSITES & PORTALS

Sr.No	Link / Portal	Description
1	https://nptel.ac.in/courses/106104128	C Programming
2	https://jsommers.github.io/cbook/control.html	Control structures, flow control statements in C
3	https://www.learn-c.org/en/Functions	Functions
4	https://www.simplilearn.com/tutorials/c-tutorial/pointers-in	Pointers
5	https://www.w3schools.com/c/	C Programming
6	https://www.javatpoint.com/c-programming-language-tutorial	C Programming tutorial
7	https://www.programiz.com/c-programming	C Programming
8	https://www.programiz.com/c-programming/online-compiler/	online C compiler

Mr. S. S. Dhoot

Name & Signature of Faculty

Ms. M. S. Karande

Name & Signature of HOD