

Maharashtra State Board of Technical Education, Mumbai
LABORATORY PRACTICAL PLANNING

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	NLH	Theory			Based on LL & TSL Practical				Based on SL				
				FA - TH		SA - TH					Total		FA-PR		SA-PR		SLA					
				Max	Max	Max					Max	Min	Max	Min	Max	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.

Sr.No.	LLO	Practical Title	Planned Date	Performance Date	Remarks	Related Self Learning
1	1.1 1.2	Install and study the C programming environment	A. 15/12/25 B. 15/12/25 C. 16/12/25	A. B. C.		
2	3.1	Implement C programs using arithmetic operators to solve given arithmetic operations	A. 17/12/25 B. 16/12/25 C. 17/12/25	A. B. C.		
3	5.1	Write well commented C programs using formatted Input/Output statements.	A. 22/12/25 B. 22/12/25 C. 23/12/25	A. B. C.		
4	6.1 6.2	Implement minimum two C programs using Relational and conditional operator.	A. 29/12/25 B. 30/12/25 C. 30/12/25	A. B. C.		
5	7.1	Implement minimum two C programs using Logical Operators	A. 5/1/26 B. 5/1/26 C. 6/1/26	A. B. C.		
6	9.1 9.2	Implement minimum two C programs using simple If statement and if..else statement.	A. 12/1/26 B. 12/1/26 C. 13/1/26	A. B. C.		

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7	10.1	Implement minimum two C programs using nested If ..else statement and if.. else if ladder	A. 14/1/26 B. 13/1/26 C. 14/1/26	A. B. C.		
8	11.1	Develop C program using Switch staements	A. 19/1/26 B. 19/1/26 C. 20/1/26	A. B. C.		
9	12.1	Write a C program to print English Calendar months as per given number	A. 21/1/26 B. 20/1/26 C. 21/1/26	A. B. C.		
10	13.1	Implement minimum two C programs using 'while' loop and 'do...while' loop statements.	A. 2/2/26 B. 2/2/26 C. 3/2/26	A. B. C.		
11	15.1 15.2	Print various patterns using loops. e.g. - Write C Program to print following or similar pattern	A. 4/2/26 B. 3/2/26 C. 4/2/26	A. B. C.		
12	16.1 16.2	Implement C programs using One Dimensional Array	A. 9/2/26 B. 9/2/26 C. 10/2/26	A. B. C.		
13	17.1 17.2	Implement C programs using Two Dimensional Array	A. 11/2/26 B. 10/2/26 C. 11/2/26	A. B. C.		
14	18.1 18.2	Write C program to perform following operations without using standard string functions.	A. 16/2/26 B. 11/2/26 C. 17/2/26	A. B. C.		
15	19.1	Implement 'Structure' in C	A. 23/2/26 B. 23/2/26 C. 24/2/26	A. B. C.		
16	20.1	Implement ' Array of Structure' in C	A. 2/3/26 B. 2/3/26 C. 4/3/26	A. B. C.		
17	21.1	Develop C program using in-built mathematical and string functions	A. 4/3/26 B. 9/3/26 C. 10/3/26	A. B. C.		
18	22.1	Write C program to demonstrate User defined Functions	A. 11/3/26 B. 11/3/26 C. 11/3/26	A. B. C.		
19	24.1 24.2	Write C Program to print addresses and values of variables using Pointer.	A. 16/3/26 B. 16/3/26 C. 17/3/26	A. B. C.		
20	25.1	Implement C Programs to perform arithmetic operations using Pointer.	A. 18/3/26 B. 17/3/26 C. 18/3/26	A. B. C.		
21	*	Implement C Programs to use Graphics Functions	A. 25/3/26 B. 24/3/26	A. B.		

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			C. 25/3/26	C.		

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

Mr. S. S. Dhoot

Name & Signature of Faculty

Ms. M. S. Karande

Name & Signature of HOD

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