



**DEPARTMENT OF INFORMATION TECHNOLOGY**  
**ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada, Recognized by Government of A.P)  
An ISO 9001 : 2015 Certified Institution & Accredited by NAAC  
ITI Road, ALC Campus, VIJAYAWADA - 520 008 :: Website : [www.aliet.ac.in](http://www.aliet.ac.in) Ph : 0866 - 2476161

### **LESSON PLAN**

Subject : Programming for Problem Solving using C		
Year : I B-Tech	Semester : I	Branch : IT
Faculty : <b>MD IMRAN</b>	Reg : R20	Academic Year : <b>2020-21</b>

#### **COURSE OBJECTIVES:**

The objectives of Programming for Problem Solving Using C are

- 1) To learn about the computer systems, computing environments, developing of a computer program and Structure of a C Program
- 2) To gain knowledge of the operators, selection, control statements and repetition in C
- 3) To learn about the design concepts of arrays, strings, enumerated structure and union types. To learn about their usage.
- 4) To assimilate about pointers, dynamic memory allocation and know the significance of Preprocessor.
- 5) To assimilate about File I/O and significance of functions

#### **COURSE OUTCOMES:**

The student will

- 1) Acquires skills to write, compile and debug programs in C language.
- 2) Be able to use different operators, data types and write programs that use two-way/multi-way selection.
- 3) Acquire knowledge to select the best loop construct for a given problem.
- 4) Design and implements programs to analyze the different pointer applications
- 5) Design and implements C programs with functions, File I/O operations

1	<b>Factual</b>	CO1:Acquires skills to write, compile and debug programs in C language.
2	<b>Conceptual</b>	CO2;Be able to use different operators, data types and write programs that use two-way/ multi-way selection.
3	<b>Procedural</b>	CO3:Acquire knowledge to select the best loop construct for a given problem.
4	<b>Applied</b>	CO4:Design and implements programs to analyze the different pointer applications CO5:Design and implements C programs with functions, File I/O operations

S.no	Concept	Objective	Pre-Class	In-Class	Post-Class
1	Introduction to Computers: Computer Systems Computing Environments Computer languages	Introduction to Computers: Computer Systems	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=z3KnlfATUek&amp;list=PLYsKWjcnp5DKS0wdoYR2FA0gt25jjBAIV">https://www.youtube.com/watch?v=z3KnlfATUek&amp;list=PLYsKWjcnp5DKS0wdoYR2FA0gt25jjBAIV</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
2	Creating and running Programs	To understand the concept Creating and running Program	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=aaM05-gK_88">https://www.youtube.com/watch?v=aaM05-gK_88</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic

3	Computer Numbering System	To understand the concept Computer Numbering System	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=MPMX7TKcGis">https://www.youtube.com/watch?v=MPMX7TKcGis</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
4	Storing Integers Storing Real Numbers	To understand the concept Storing Integers Storing Real Numbers	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=vmVwzt6-Eng">https://www.youtube.com/watch?v=vmVwzt6-Eng</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
5	Introduction to the C Language: Background	Introduction to C Language	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=si-KFFOW2gw">https://www.youtube.com/watch?v=si-KFFOW2gw</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic

6	C Programs Identifiers	To understand the concept C Programs Identifiers	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=AjYHnV9CqH4">https://www.youtube.com/watch?v=AjYHnV9CqH4</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
7	Types Variable Constants	To understand the concept Types Variable Constants	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=F-Puo7bo-Cw">https://www.youtube.com/watch?v=F-Puo7bo-Cw</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
8	Input/output, Programming Examples	To understand the concept Input/output, Programming Examples	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=kidWWcv1g0A">https://www.youtube.com/watch?v=kidWWcv1g0A</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic

9	Scope Storage Classes and Type Qualifiers	To understand the concept Scope Storage Classes and Type Qualifiers	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=eNH5KqzOM7c">https://www.youtube.com/watch?v=eNH5KqzOM7c</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
11	Structure of a C Program: Expressions Precedence and Associativity	Introduction to Structure in C	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=8H9G621pQq0">https://www.youtube.com/watch?v=8H9G621pQq0</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
12	Side Effects, Evaluating Expressions	To understand the concept Side Effects, Evaluating Expressions	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=WJqw-cxvKgo">https://www.youtube.com/watch?v=WJqw-cxvKgo</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic

13	Type Conversion Statements	To understand the concept Type Conversion Statements	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=94kgGENcWS0">https://www.youtube.com/watch?v=94kgGENcWS0</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
14	Simple Programs Command Line Arguments	To understand the concept Simple Programs Command Line Arguments	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=39jE9pXxs10">https://www.youtube.com/watch?v=39jE9pXxs10</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
UNIT-II					
1	Bitwise Operators: Exact Size Integer Types	To understand the concept Bitwise Operators: Exact Size Integer Types	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=jlQmeyce65Q">https://www.youtube.com/watch?v=jlQmeyce65Q</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic

2	Logical Bitwise Operators, Shift Operators	To understand the concept Logical Bitwise Operators, Shift Operators	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=dZMXcf5Pnm8">https://www.youtube.com/watch?v=dZMXcf5Pnm8</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
3	Selection & Making Decisions: Logical Data and Operators	To understand the concept Selection & Making Decisions: Logical Data and Operators	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=wqQp5VMQ3fc">https://www.youtube.com/watch?v=wqQp5VMQ3fc</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
4	Two Way Selection, Multiway Selection	To understand the concept Two Way Selection, Multiway Selection	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=wqQp5VMQ3fc">https://www.youtube.com/watch?v=wqQp5VMQ3fc</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic

5	More Standard Functions	To understand the concept More Standard Functions	Text Book : Pdf (e-book) Upload Video Link: Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
6	Tips and Common Programming Errors Key Terms, Summary, Practice Set	To Revise all the concepts	Text Book : Pdf (e-book) Upload Video Link: Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
7	Repetition: Concept of Loop Pretest and Post-test Loops	To understand the concept Repetition: Concept of Loop Pretest and Post-test Loops	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=iNO3g7S-rj4">https://www.youtube.com/watch?v=iNO3g7S-rj4</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic



8	Initialization and Updating	To understand the concept Initialization and Updating	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=YUWGfWgNz4Y">https://www.youtube.com/watch?v=YUWGfWgNz4Y</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
9	Event and Counter Controlled Loops in C	To understand the concept Event and Counter Controlled Loops in C	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=YUWGfWgNz4Y">https://www.youtube.com/watch?v=YUWGfWgNz4Y</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
10	Other Statements Related to Looping Applications	To understand the concept Other Statements Related to Looping Applications	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=21111_9Osd0">https://www.youtube.com/watch?v=21111_9Osd0</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic

11	Programming Example The Calculator Program	To understand the concept Programming Example The Calculator Program	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=DZrV17B-BAs">https://www.youtube.com/watch?v=DZrV17B-BAs</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
UNIT-III					
1	Arrays: Concepts, Using Array in C Array Application	Introduction to Array	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=55l-aZ7_F24">https://www.youtube.com/watch?v=55l-aZ7_F24</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
2	Two Dimensional Arrays  Multidimensional Arrays	To understand the concept	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=ctWXF0fAO-w">https://www.youtube.com/watch?v=ctWXF0fAO-w</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic

3	Programming Example – Calculate Averages	To understand the concept	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=hfwHjSTvxUU">https://www.youtube.com/watch?v=hfwHjSTvxUU</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
4	Strings: String Concepts, C String Input / Output Functions	To understand the concept	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=AW3m7kdWvI8">https://www.youtube.com/watch?v=AW3m7kdWvI8</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
5	Arrays of Strings, String Manipulation Functions String/ Data Conversion	To understand the concept Arrays of Strings, String Manipulation Functions String/ Data Conversion	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=SPuS9UJF1lo">https://www.youtube.com/watch?v=SPuS9UJF1lo</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic

6	A Programming Example – Morse Code	To understand the concept A Programming Example – Morse Code	Text Book : Pdf (e-book) Upload Video Link: Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
7	The Type Definition (Type def), Enumerated Types	To understand the concept he Type Definition (Type def), Enumerated Types	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=KcFuHLP85Jg">https://www.youtube.com/watch?v=KcFuHLP85Jg</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
8	Structure, Unions	To understand the concept Structure, Unions	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=zmRxC7gYw-g&amp;list=PLBlnK6fEyyqRiteqwlMLXYtZ16xXDR7MO0">https://www.youtube.com/watch?v=zmRxC7gYw-g&amp;list=PLBlnK6fEyyqRiteqwlMLXYtZ16xXDR7MO0</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic

9	Programming Application	To understand the concept Programming Application	Text Book : Pdf (e-book) Upload Video Link: Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
UNIT IV					
1	Pointers: Interdiction, Pointers to pointers	Introduction to Pointers	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=f2i0CnUOniA">https://www.youtube.com/watch?v=f2i0CnUOniA</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
2	Compatibility, L value and R value	To understand the concept Compatibility , L value and R value	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=pt2JIqro7yU">https://www.youtube.com/watch?v=pt2JIqro7yU</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic

3	Pointer Applications: Arrays, and Pointers	To understand the concept Pointer Applications: Arrays, and Pointers	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=55l-aZ7_F24&amp;list=PLBlnK6fEyqRjoG6aJ4FvFU1tLXbjLBiOP">https://www.youtube.com/watch?v=55l-aZ7_F24&amp;list=PLBlnK6fEyqRjoG6aJ4FvFU1tLXbjLBiOP</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
4	Pointer Arithmetic and Arrays	To understand the concept Pointer Arithmetic and Arrays	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=FmptkK2XZ0w">https://www.youtube.com/watch?v=FmptkK2XZ0w</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
5	Memory Allocation Function	To understand the concept Memory Allocation Function	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=v49bwqQ4ouM">https://www.youtube.com/watch?v=v49bwqQ4ouM</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic

6	Array of Pointers, Programming Application	To understand the concept Array of Pointers, Programming Application	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=9b4Bc0XjygA">https://www.youtube.com/watch?v=9b4Bc0XjygA</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
7	Processor Commands: Processor Commands	To understand the concept Processor Commands: Processor Commands	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=509GC9oKk-Q">https://www.youtube.com/watch?v=509GC9oKk-Q</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
UNIT V					
1	Text Input / Output: Files, Streams	Introduction to File and Streams	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=6BhH2FPfS30">https://www.youtube.com/watch?v=6BhH2FPfS30</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic

2	Standard Library Input / Output Functions	To understand the concept Standard Library Input / Output Functions	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=mmMUmithx_g">https://www.youtube.com/watch?v=mmMUmithx_g</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
3	Formatting Input / Output Functions	To understand the concept Formatting Input / Output Functions	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=igLV3Ctgznw">https://www.youtube.com/watch?v=igLV3Ctgznw</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
4	Character Input / Output Functions	To understand the concept Character Input / Output Functions	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=75DBrJ4VyII">https://www.youtube.com/watch?v=75DBrJ4VyII</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic



5	Binary Input / Output: Text versus Binary Streams	To understand the concept Binary Input / Output: Text versus Binary Streams	Text Book : Pdf (e-book) Upload Video Link: Web Link : <a href="https://www.youtube.com/watch?v=ad0qEts5_bAh">https://www.youtube.com/watch?v=ad0qEts5_bAh</a> <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
6	Standard Library, Functions for Files	To understand the concept standard Library, Functions for Files	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=3KqSlavbpTI">https://www.youtube.com/watch?v=3KqSlavbpTI</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
7	Converting File Type	To understand the concept Converting File Type	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=QIURkT3AXgs">https://www.youtube.com/watch?v=QIURkT3AXgs</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic

8	Functions: Designing, Structured Programs	To understand the concept Functions: Designing, Structured Programs	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=VF40lxbXR_0">https://www.youtube.com/watch?v=VF40lxbXR_0</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
9	Function in C	Introduction to Function in C	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=TxWKGhF9KdM">https://www.youtube.com/watch?v=TxWKGhF9KdM</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
10	User Defined Functions	To understand the concept User Defined Functions	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=IRcUKuYvg5A">https://www.youtube.com/watch?v=IRcUKuYvg5A</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic

11	Inter-Function Communication Standard Functions	To understand the concept Inter-Function Communication on Standard Functions	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=fN0PuBF-7SA">https://www.youtube.com/watch?v=fN0PuBF-7SA</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
12	Passing Array to Functions Passing Pointers to Functions	To understand the concept Passing Array to Functions Passing Pointers to Functions	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=vuZ64JO-xwo">https://www.youtube.com/watch?v=vuZ64JO-xwo</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic
13	Recursion, Passing an Array to Function	To understand the concept Recursion, Passing an Array to Function	Text Book : Pdf (e-book) Upload Video Link: <a href="https://www.youtube.com/watch?v=SUfe1UX1m4M">https://www.youtube.com/watch?v=SUfe1UX1m4M</a> Web Link : <a href="https://www.javatpoint.com/c-programming-language-tutorial">https://www.javatpoint.com/c-programming-language-tutorial</a>	Discussion on pre-requisites (10 Min) PPT presentation (30 Min) Discussion or Poll activity (5 min) Summery (5min) Doubts clari-fication (10 min)	Discussion Forum on the topic in the group  Review on the topic  Share material on the topic