Subject	Fund. of Programming in C	**Course Code**	IT111	**Theoretical**	4 hrs / wk
Semester	1	**Prerequisite**	None	**Practical**	0 hrs / wk

Program Learning Components

Week 1-2	**1. Programming and Problems Analysis:** • Problems solving using computer. • Steps of problems solving. • Software. • Definition Of Software. • Types of software. • Software development stages. • Data types. • Variables. • Constants. • Reserved words.
Week 3-5	**2. Statements:** • Assign statements. • Decision statements. • Input /output statements. • Control statement. • Loops. • Math Operations. • Relational Operations. • Logical Operations. • String Operations.
Week 6-8	**3. Flowchart:** • The definition of flowcharts. • The characteristics of flowcharts. • Figures and shapes used in flowcharts: process box, choose box, input, output box. • Algorithms: problem solving using algorithm multiplication or sorting list. • Samples of solved mathematical problems like matrix

	multiplication or sorting list of names.
Week 9-10	**4. Types Of Flowchart:**
	• Sequential Flowchart. • Brainchild Flowchart. • Looping Flowchart. • TDMA Of FDMA.
Week 11-12	**5. Looping And Control:**
	Using of mathematical and logical operation in looping and decision the production of output by executing flowchart.

Course Assessment:

Course Work	Mid-Term Tests	Final Examination
10	30	60

NOTE: Course Work may include assignments, projects and practical activities.