No. D/____/DBH.   Dated: 23-5-2019

Subject: **Revised Course Contents of "Formal Logic" of 5th Semester for BS (4 Years) Information Technology for Affiliated Colleges**

With reference to the meeting (vide letter no. D/67/DBH, dated 13-02-2019) held on 08th of February, 2019, kindly get the revised course contents of above said course (copy attached). The new course code and title will be as follows:

SEMESTER-V		
Revised Title	**New Course Code**	**Credit Hours**
Formal Logic (Rev)	IT-303A	3

It is for information and necessary action.

May 23, 19

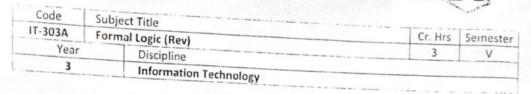**Prof. Dr. Faheem Aftab**
Director

Cc:

- Secretary to the Vice Chancellor
- Chairperson, Semester Implementation Committee for all Semester Examinations of University and Affiliated Colleges of University of the Punjab, Lahore.
- Controller of Examinations, University of the Punjab, Lahore
- Principal, PUCIT, University of the Punjab, Lahore
- Mr. Tariq Butt, Assistant Professor, PUCIT, University of the Punjab, Lahore
- Principals, All Affiliated Colleges of BS (4 Years) Program

Code	Subject Title		Cr. Hrs	Semester
IT-303A	Formal Logic (Rev)		3	V
Year	Discipline			
3	Information Technology			

OBJECTIVES

The purpose of this course into enhance the reason ability of new entreats and to provide them basic information about the use of logic in different areas of computer science. Studying logic at the initial stage will equip the participants for understanding more clearly and effectively other higher level courses.

Course Content

1. **BASIC CONCEPTS**
   1.1   Argument, premises and Conclusion
   1.2   Deduction and induction
   1.3   Validity, Truth Soundness, Strength Cogency

2. **CATEGORICAL PROPOSITION**
   2.1   The Components of Categorical Propositions
   2.2   Quality, Quantity, and Distribution
   2.3   Venn Diagrams and the Modern Square of Opposition
   2.4   Conversion, Obversion and Contraposition
   2.5   Traditional Square of Opposition
   2.6   Venn Diagrams and the Traditional Standpoint

3. **CATEGORICAL SYLLOGISMS**
   3.1   Standard Form, Mood and figure
   3.2   Venn diagram
   3.3   Rules and Fallacies

4. **PROPOSITIONAL LOGIC**
   4.1   Symbols and Translation
   4.2   Truth Function
   4.3   Truth Table for Propositions
   4.4   Truth Tables for Arguments
   4.5   Indirect Truth Tables

5. **INFORMAL FALLACIES**
   5.1   Fallacies of Relevance
   5.1.1   Appeal to force

Books Recommended:

1. Patrick J. Hurley, A Concise Introduction to Logic, 12th Edition, Wadswarth Publishing
2. Irving M. Copl, Carl Cohen & Kenneth McMahn, Introducation to Logic, 14th Edition, Pearson.