

Sub: - Declaration of the final year BCA subjects for July 2007 admitted batch onwards

To,

All Study Institutes of BCA

Dear Sir,

As you are aware that in the 5th semester of BCA in the HONORS stream the University had kept one subject 5 BCA5 (A) to be declared in the beginning of the new semester. It has been done to keep the syllabus most current and updated every year.

The University is offering the subject "Systems Programming" as 5BCA5 (A) in HONORS stream. The detailed syllabus is also appended below.

Practical subject 5BCA8 - " Computer Lab X " will be based on subject 5BCA3 - ASP.NET and C# (whose details are available in the syllabus book)

The above subjects shall continue in the further year till a fresh declaration is given by the University.

DIRECTOR (I.T.)

5BCA5 (A) SYSTEMS PROGRAMMING

UNIT - I

Language Processor Introduction, Language processing activities, Fundamentals of Language processing, Fundamentals of language specifications, Language processor development tools

UNIT - II

Data Structure for Language Processing, Search Data Structures, Allocation data structure, Language Processing activities, Scanning and Parsing

UNIT - III

Assemblers, macros and macro processors, Elements of assembly language programming, assembly scheme, Pass structure of Assemblers, Macro definition & call, Macro Expansion

UNIT - IV

Compilers and interpreters, Aspects of compilation, Memory allocation, Compilation of Expressions, Compilation of control structures

UNIT - V

Linkers & Software Tools, Relocation and linking concept. Editors, Debug monitors, Program Environments, Users Interfaces

Texts and reference books;

System programming & operating systems, by D.M.Dhamdhare TMH,
ISBN - - 07 - 463083 - 0