

# Akal Group of Technical & Management Institutions

## M.C.A: 3 Year Course

### ➤ FIRST YEAR

#### Semester-1

MCA-111	Mathematical Foundations of Comp.Sc.
MCA-112	Comp.Organization &Architecture
MCA-113	Programming in C
MCA-114	Communications skills
MCA-115	Programming Lab-1 (C programming)
MCA-116	*Elective

#### Semester-II

MCA-121	Data and File Structures
MCA-122	DBMS
MCA-123	Object Oriented Programming using C++
MCA-124	MIS
MCA-125	Programming Lab-II (Data Structurss and C++)
MCA-126	*Elective

### ➤ SECOND YEAR

#### Semester-III

MCA-211	Design & Analysis of Algorithms
MCA-212	Software Enginerring
MCA-213	Decision Support Systems
MCA-214	Programming in Java
MCA-215	Programming Lab-III(Java lab&Minor Project)
MCA-216	*Elective

#### Semester-IV

MCA-221	Operating Systems
MCA-222	Data Communication & Computer Networks
MCA-223	Web Programming using ASP.Net
MCA-224	Bussiness Intelligence
MCA-225	Programming Lab-IV(ASP.Net &Minor Project)
MCA-226	*Elective

### ➤ THIRD YEAR

### Semester-V

MCA-311	Artificial Intelligence
MCA-312	Computer Graphics
MCA-313	Theory Of Computation
MCA-314	Bussiness Intelligence
MCA-315	Programming Lab-V(Computer Graphics)
MCA-316	*Elective

### Semester-VI

MCA-321	PROJECT
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