

## DIPLOMA OF COMPUTER APPLICATION (DCA)

### YEAR-1

1 Computer Fundamentals	5 Internet & Web Page Designing	9 LAB: 102, 103, 104
2 PC Package	6 Programming in C Language	10 LAB: 105, 106, 107
3 Accounting with Tally	7 OOP with C++	
4 Operating System	8 LAB: Coreldraw & Photosop	

## BACHELOR OF BUSINESS ADMINISTRATION (BBA)

### YEAR-1

1 Business & Management	3 Legal Aspects of Indain Business	5 Fundamentals of Accounting
2 Business Communication	4 Business Economics	6 Computer Fundamentals

### YEAR-2

1 Strategic Marketing	3 Human Resource Management	5 Quantitative Techniques
2 Marketing Management	4 Business Finance	6 Management Information System

### YEAR-3

1 Organizational Behaviour	3 International Business	5 E-Commerce
2 Risk & Insurance Management	4 Cost & Management Accounting	6 Project

## BACHELOR OF ARTS (B.A)

Select any three subjects : Pol. Sc. / History / Economics / English / Hindi / Sociology / Geography / Home Science)

## BACHELOR OF LIBRARY SCIENCE (B.LIB)

1 Library and Information Society	4 Reference Sources & Services	6 PRAC-1: Lib Cataloguing Practice
2 Mgmt of Library & Infrm. Center	5 Information & Comm. Technology	7 PRAC-2 : Lib. Classification Practice
3 Library Classifi. & Catalogue Theory		

## MASTER OF LIBRARY SCIENCE (M.LIB)

1 Method.of Research & Stat.Tech.	4 Advanced Cataloguing Practics	7 Infn & Lit. Survey in Social Science
2 Inform. Analysis & Repackaging	5 Information Storage & Retrieval	8 Presrv & Conserv.of Library Material
3 Advanced Classification Practics	6 Academic Library System	

## MASTER OF COMMERCE (M.COM)

### YEAR-1

1 Accounting for Managerial Decision	3 Business Environment	5 Statistical Analysis for Business
2 Management Concepts	4 Managerial Economics	6 Computer Application to Business

### YEAR-2

1 Strategic Management	3 E-Commerce	5 Enterpreneurship Development
2 Accounting Theory comprehn Viva	4 International Business Environment	6 Financial Management

## MASTER OF SOCIAL WELFARE (MSW)

### YEAR-1

1 Indian Society	3 Theory and practice of Social Work	5 Indian Social Institutions
2 Social Work & Human Psychology	4 Sociological Concept	

### YEAR-2

1 Social Disorganization & Legislation	3 Social Policy and Administration	5 Criminology and Penalogy
2 Social Research Methods	4 Personnel Management	6 Fieldwork & Report

## MASTER OF ARTS IN ENGLISH (M.A.)

### YEAR-1

1 Modern Eng.Usage, Phonetic.& Lang.	3 Eng. Lit.: Pre-Romantic & Romantic	4 Victorian Literature
2 English Literature : Elizabethans & Augustans		

### YEAR-2

1 Literary Theory	3 20th Century Lit.: Prose & Fiction	5 Applied Linguistics & Contemporary English Grammer
2 20th Century Lit.: Poetry & Drama	4 American Literature	

## M.A. IN OTHER SUBJECTS

Subjects : English / Hindi / Geography / Economics / History / Sanskrit / Sociology / Pol. Science

## New Course: M.Sc.(Android Prog.) / M.Sc. (Software Testing)

Note:- Fee is not refundable in any circumstances. Registration & Exam. Fee will be extra.

# KCRI COLLEGE

(Training & Placement Center) Opp. Military Hospital, Alwar. ☎: 0144-2701777, 9414016577, 7597363620, 30, 50  
Email: krcicollege@yahoo.com; Visit: www.krcicollege.com



# SINGHANIA UNIVERSITY

Established by the Govt. of Rajasthan and recognized as per Section 2(f) of UGC Act, 1956  
Pachari Bani, Distt. Bhanuwaru -333515, Rajasthan (India)

## Course Curriculum

### MASTER OF BUSINESS ADMINISTRATION (MBA)

#### SEMESTER-1

1 Fundamentals of Management	4 Accounting For Management	7 Communication for Management
2 Organizational Behavior	5 IT for Managers	8 Techniques Lab
3 Managerial Economics	6 Business Environment	9 Business Communication Lab

#### SEMESTER-2

1 Logistic Supply Chain Management	4 Financial Management	7 Research Methods in Management
2 Human Resource Management	5 Marketing Management	8 Seminar on Contemporary Issues*
3 Front Office Management	6 Operations Management	9 Computer Applications Lab

#### SEMESTER-3

1 Business Policy & Strategic Mgmt	4 Business laws	7 International Business
2 Performance Management	5 Entrepreneurship Management	8 Summer Training Project Report*
3 Project Management	6 Management Control System	9 Capacity Building Lab

#### SEMESTER-4

1 Elective-1 to 5	6 Major Optional Subject Lab	7 PROJECT
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Specialisation Elective Papers (select any one stream)

#### MARKETING

1 Services Marketing
2 Retail Management
3 Rural Marketing Management
4 Consumer Relationship Mgmt.
5 Global Marketing Management

#### FINANCE

1 Security Analysis & Portfolio Mgmt.
2 International Financial Management
3 International Trade & Finance
4 Financial Derivatives
5 Banking and Indian Financial System

#### HRM

1 Human Resource Infor System
2 Human Resource Accounting
3 Compensation Management
4 Employee Legislation
5 Organisational Development

## MASTER OF COMPUTER APPLICATION (MCA)

(Lateral Entry to 3rd Sem. After BCA/PGDCA/B.Tech; Lateral Entry to 5th Sem. After M.Sc.CS)

#### SEMESTER-1

1 Fundamental of I.T. & Digital Electron	4 Operating System	7 LAB: Accounting with Tally
2 PC Package	5 Programming in C Language	8 LAB: Programming in C
3 Accounting with Tally	6 LAB: PC Package, Corel & Photosop	

#### SEMESTER-2

1 Internet & Web Page Designing	4 System Analysis & Design	7 LAB: OOP with C++
2 Management Information System	5 VB.NET	8 PROJECT in VB.NET/WPD
3 OOP with C++	6 LAB: Web Page Designing	

#### SEMESTER-3

1 Data Structures & Algorithm	4 Database Management System	7 LAB: ASP.NET
2 Programming with Java	5 Discrete Mathematics	8 LAB: Data Structure
3 ASP.NET through C#	6 LAB: Programming with Java	

#### SEMESTER-4

1 Computer Networks	4 RDBMS with Oracle/SQL	7 LAB: Oracle/SQL
2 Computer Graphics	5 Server Admin with Linux & Windows	8 LAB: Linux
3 Software Engineering	6 LAB: Networking	

#### SEMESTER-5

1 Artificial Intelligence	3C Perl Programming	5 LAB: PHP Lab
2 Web Development with PHP	4A E-Commerce	6 LAB: Adv.Java/Android /Perl Prog
3A Advance Java	4B Data Warehousing & Mining	
3B Android Programming	4C Software Project Management	

#### SEMESTER-6

1 Advance Computer Architecture	2B Embedded System	3 MAJOR PROJECT
2A Advance Operating System	2C Big Data Analysis using Hadoop	

**M.SC (CS) (2 Yrs.) / PGDCA (1 Year)**

Elig: Graduate in any stream. (Lateral Entry to M.Sc.CS 2nd Year after PGDCA / B.Tech)

**YEAR-1**

1 Funda. of IT & Digital Electronics	6 Programming in C Language	11 LAB: 102, 103, 104
2 PC Package	7 OOP with C++	12 LAB: 106, 107, 108
3 Accounting with Tally	8 System Analysis & Design	13 MINOR PROJECT
4 Operating System	9 VB.NET	
5 Internet & Web Page Designing	10 LAB: Coreldraw & Photoshop	

**YEAR-2**

1 Data Structures & Algorithm	5 Computer Networks	Server Admin with Linux & Windows
2 Programming with Java	6 Computer Graphics	LAB: 202, 203
3 RDBMS with Oracle/SQL	7 Software Engineering	LAB: 208, 209
4 Discrete Mathematics	8 ASP.NET through C#	PROJECT

**M.SC (PHYSICS)****YEAR-1**

1 Classical Mech. & Math. Method in Phy.	6 Quan. Mech., Atomica & Mole. Phy.	11 Physics Practical
2 Classical Electrodynamics	7 Electronics, Numerial & Comp. Prog.	

**YEAR-2**

1 Adv. Quant. Mech. & Intr. Quan. Field Theo.	5 Statiscal and Solid State Physics	Physics Practical
2 Nuclear Physics	6 Microwave Electronics	

**M.SC (CHEMISTRY)****YEAR-1**

1 Inorganic Chemistry	4 Spectroscopy	6 Computers for Chemists
2 Organic Chemistry	5A Mathematics for Chemists	7 Practical
3 Physical Chemistry	5B Biology for Chemists	

**YEAR-2**

1 Appl. of Spectro. Photochem. & Solid State	3 Environmental Chemistry	8 Seminar
2 Bioinorg Chem, Bioorg & Biophy Chem	4 <b>Elective Paper (select any group)</b>	9 Practical
<b>GROUP-1 (inorganic)</b>	<b>GROUP-2 (organic)</b>	<b>GROUP-3(Physical)</b>
4 Organotransition Metal Chemistry	4 Organic Synthesis - I	4 Analytical Chemistry
5 Bioinorganic & Supramolec Chem	5 Organic Synthesis - II	5 Physical Organic Chemistry
6 Photoinorganic Chemistry	6 Heterocyclic Chemistry	6 Chemical Dynamics
7 Polymers	7 Chemistry of Natural Products	7 Electrochemistry

**M.SC (MATH)****YEAR-1**

1 Advanced Abstract Algebra	3 Differential Eqn and Spcl Functions	5 Mechanics
2 Real Analysis and Topology	4 Defferential Geo. & Tensor Analysis	

**YEAR-2**

1 Analysis and Advanced Calculus	3 Integral Transforms and Integral Eqn	5 Computer Applications
2 Viscous Fluid Dynamics	4 Mathematical Programming	5P Computer Practical

**M.SC (BOTANY)****YEAR-1 (One Practical Paper of 100 Marks)**

1 Cell & Molecular Biology of Plants	3 Bio. & Diversity of Lower Plants: Cryptogam	5 Plant Physiology & Metabolism
2 Cytology, Genetics & Cytogenetics	4 Taxonomy & Diversity of Seed Plants	6 Microbiology & Plant Pathology

**YEAR-2**

1 Plant Morphology, Deve. Anatomy	3 Plant Resource Utilization & Conservation	5 Advanced Plant Pathology
2 Plant Ecology	4 Biotech. & Genetic Engg. of Plant & Microbe	6 Practical

**M.SC (ZOOLOGY)****YEAR-1**

1 Biosystematics & Taxonomy	3 Molecular Biology & Biotechnology	5 Biochemistry
2 Structure & Function of Invertebrates	4 General Physiology	6 Quantitative Biology & Population Genetic

**YEAR-2**

1 Biology of Chordates	3 Genes & Differentiations	5 Nature of Cancer
2 Environmental Biology & Ethology	4 Tools & Techniques in Biology	6 Causation, Prevention & Cure of Cancer

Note: One Practical Paper in each year of 100 marks.

**BACHELOR OF COMPUTER APPLICATION (BCA)****YEAR-1**

1 Computer Fundamentals	5 Internet & Web Page Designing	9 LAB-1: Coreldraw & Photoshop
2 PC Package	6 Prog. Methodology and C Prog.	10 LAB-2 (Based on 102,103,104)
3 Accounting with Tally	7 RDBMS with Oracle/SQL	11 LAB-3 (Based on 106,107,108)
4 Operating System	8 Communicative English	

**YEAR-2**

1 OOP with C++	5 Programming with Java	9 Minor Project
2 Data Structures & Algorithm	6 Data Communication & Network	10 LAB-1 (Based on 201,202)
3 Digital Electronics	7 System Analysis and Design	11 LAB-2 (Based on 205,208)
4 Elementary Mathematics	8 VB.NET	

**YEAR-3**

1 ASP.NET through C#	4A E-Commerce	5 LAB-1 (Based on 1)
2 Web Development using PHP	4B Data Mining and Warehouse	6 LAB-2 (Based on 2,3)
3 Linux & Shell Programming	4C System Software Engineering	7 Major Project/Seminar & IndstrITrng

**BACHELOR OF SCIENCE { B.SC. : MATH / BIO }****YEAR-1 (Select any one group : Phy, Chem, Math OR Chem, Bot, Zoo)**

C1 <i>General English</i>	C1 Inorganic Chemistry	Z1 Diversity of Animals and Evolution
C2 <i>Environmental Studies Theory</i>	C2 Organic Chemistry	Z2 Cell Biology and Genetics
C3 <i>Elementary Computer Applications</i>	C3 Physical Chemistry	Z3 Gamete and Developmental Biology
C4 <i>Computer Practical</i>	C4 Chemistry Practical	Z4 Zoology Practical
B1 Cell Biology and Plant Breeding	P1 Mechanics	M1 Discrete Mathematics
B2 Microbio. Mycology & Plant Pathology	P2 Electromagnetism	M2 Calculus
B3 Algae, Lichens and Bryophyta	P3 Optics	M3 3 Dimensional Geo&OptimizTheory
B4 Botany Practical	P4 Physics Practical	M4 Maths Practical

**YEAR-2**

C1 Inorganic Chemistry	Z1 Stru & Function of Invertebrate Types	B1 Plant Morphology and Anatomy
C2 Organic Chemistry	Z2 Animal Physiology and Biochemistry	B2 Cell Bio. Genetics & Plant Breeding
C3 Physical Chemistry	Z3 Immunology, Microbio. & Biotech	B3 Plant Physiology and Biochemistry
C4 Chemistry Practical	Z4 Zoology Practical	B4 Botany Practical
P1 Statical and Thermodynam Phy	M1 Real Analysis and Metric Space	
P2 Optics	M2 Differential Equations	
P3 Electronics and Solid State Devices	M3 Numerical Analysis & Vector Calculus	
P4 Physics Practical	M4 Maths Practical	

**YEAR-3**

C1 Inorganic Chemistry	Z1 Structure of Fuctn of Chordate Types	B1 Taxonomy & Embryology of AngiosP.
C2 Organic Chemistry	Z2 Ecology and Environmental Biology	B2 Molecular Biology & Biotechnology
C3 Physical Chemistry	Z3 Applied Zoology, Ethology & Biostatics	B3 Plant Ecology & Economic Botany
C4 Chemistry Practical	Z4 Zoology Practical	B4 Botany Practical
P1 Mathl Phys & SplTheory of Relativity	M1 Algebra	
P2 Elementary Quant. Mec & Spectro.	M2 Complex Analysis	
P3 Nuclear and Solid State Physics	M3 Dynamics and CP in "C"	
P4 Physics Practical	M4 Maths Practical	

**BACHELOR OF COMMERCE (B.COM)****YEAR-1**

C1 <i>General English</i>	1 Corporate & Financial Accounting	4 Entrepreneurship & Small Biz Mgmt
C2 <i>Environmental Studies Theory</i>	2 Business Statistics	5 Business Economics
C3 <i>Elementary Computer Applications</i>	3 Business Law	6 Indian Banking & Financial System
C4 <i>Computer Practical</i>		

**YEAR-2**

1 Income Taxes	3 Company Law & Secretarial Practice	5 Economic Enviornment in India
2 Cost Accounting	4 Management	6 Elements of Financial Management

**YEAR-3**

1 Auditing & Management Accounting	3 Functional Management	5 Rural Development & Coopration
2 Computer Application in Accounting	4 Computer Typing (English / Hindi)	6 Business Budgeting