

PGDBA OF SCDL PUNE (PGDBA 2 YEARS)

This programme is of two years consisting of 4 semesters. In each semester candidates have to study 6 papers. This programme is most economical to the students and professionals who are planning to pursue PGDBA.

Eligibility Criteria :

1. Any Degree from Recognized University
2. Diploma Holders from Government Polytechnic with minimum 5 years supervisory working experience.

M.Sc. IN MATHEMATICS

Eligibility Criteria : The Candidate should have passed B.Sc. Degree from from any of the Recognized University.

Documents to be Produced : Original Degree marks card with 2 set of Xerox copies.

Duration of the Course : Two Years.

For Previous year

1. Algebra
2. Analysis – I
3. Analysis – II
4. Different Equations

For Final Year

1. Complex Analysis
2. Topology
3. Measure Theory and Functional Analysis
4. Numerical Analysis

Note : Each paper of 100 marks of which 20 marks shall be Internal Assessment and 80 for Theory.

- Note :
- a) Study materials will be supplied by the University only
 - b) Lab facility will be provided by the study centre.
 - c) Contact program will be arranged by the study centre as per the schedule
 - d) Examination will be held at Bangalore.

M.Sc. CHEMISTRY

Eligibility Criteria : The Candidate should have passed B.Sc. Degree from Any of the Recognized University.

Duration of the Course : Two years.

Documents to be produced : Original Degree marks card with 2 set of Xerox, 6 photoes.

Subjects :

For Previous year

1. Analytical Chemistry – I
2. Inorganic Chemistry - II
3. Organic Chemistry – III
4. Physical Chemistry – IV

Chemistry Practical – I
Chemistry Practical – II
Chemistry Practical – III

For Final year

1. Analytical Chemistry - V
2. Inorganic Chemistry - VI
3. Organic Chemistry – VII
4. Physical Chemistry - VIII

Chemistry Practical – IV
Chemistry Practical - V
Chemistry Practical - VI

Note : Each paper is of 100 marks of which 15 marks is for Internal Assessment and 85 for Theory. Practical is for 75 marks of which 65 is for Practicals and 10 for Record.

- Note :
- a) Study materials will be supplied by the University
 - b) Lab facility will be provided by the study centre
 - c) Contact program will be arranged by the study centre as per the schedule
 - d) Examination will be held at Bangalore.

M.Sc. IN PHYSICS

Eligibility Criteria : The Candidate should have passed B.Sc. Degree from Any of the Recognised University.

Duration of the Course : Two years.

Documents to be Produced : Original Degree marks card with 2 set of Xerox
Copies 5 photoes.

Subjects :

Previous Year

1. Mathematical method & Classical Mechanics
2. Quantaum & Statistical Mechanics
3. Solid State Physics
4. Electronics

Practical – I Experiments in Optics

Practical – II Experiments in Electronics

Final Year

1. Electrodynamics, Optics & Molecular Spetroscopy
2. Nuclear Physics, Cosmis ray & Elementary Particles
3. Special Paper –I Solid State Physics –I
4. Special Paper –I Solid State Physics – II

Practical - III : Experiments in Nuclear Physics – II

Practical – V : Experiments in Solid State Physics

Note : Each paper is of 100 marks of which 15 marks is for Internal Assessment and 85 for Theory. Practical is for 75 marks of which 65 is for Practical and 10 for Record.

- Note :
- a) Study materials will be supplied by the University
 - b) Lab facility will be provided by the study centre
 - c) Contact Program will be arranged by the study centre as per the schedule
 - d) Examination will be held at Bangalore

M.Sc. IN BOTANY

Eligibility Criteria : The Candidates should have passed B.Sc. Degree from Any of the Recognized University.

Duration of the Course : Two Years

Documents to be produced : Original Degree Marks card with 2 set of Xerox, 6 Photoes.

Subjects :

Previous Year

1. Biology & Diversity of Algae Fungi Bryphyte, Pteridophyte and

Gymnosperms

2. Diversity of angiosperms and plant Taxonomy
3. Plant Ecology and Plant Geography
4. Microbiology

Practical – I Based on Theory

Paper I & II

Practical – II Based on Theory

Paper III & IV

Final year

1. Plant Psychology
 2. Medicinal Plants and Economic Botany
 3. Angiosperm Embryology
 4. Plant Breeding & Biotechnology
- Practical – III Based on Theory
Paper V & VI
- Practical - V Based on Theory Paper VII & VIII

Note : Each paper is of 100 marks of which 15 marks is for internal Assessment and 85 for Theory, Practicals is for 75 marks of which 65 is for Practical and 10 for Record.

- Note : a) Study materials will be supplied by the University
b) Lab facility will be provided by the allotted study centre
c) Contact program will be provided by the study centre
d) Examination will be held at Bangalore

M.Sc. IN ZOOLOGY

SUBJECTS :

Previous Year

1. Animal Forms and Functions & Ecobiology and Gymnosperms
2. Physiology & Biological Chemistry
3. Parasitology & Animal Behavior
4. Cytogenetics & Development Biology

Practical – I Based on Theory

Paper I & II

Practical – II Based on Theory

Paper III & IV

Final Year

1. Aquaculture and Wildlife

2. Environment Pollution & Ecotoxicology
3. Sericulture & Apiculture
4. Molecular Genetics & Biotechnology

Practical – III Based on Theory

Paper V & VI

Practical – V Based on Theory

Paper VII & VIII

Note : Each paper is of 100 marks of which 25 marks is for Internal Assessment and 85 for Theory. Practical is for 75 marks of which 65 is for Practicals and 10 for Record.

Note : a) Study materials will be supplied by the University

b) Lab facility will be provided by the study centre

c) Contact program will be provided by the study centre as per the schedule

d) Examination will be held at Bangalore.

M.Sc. IN BIO- TECHNOLOGY

Eligibility : B.Sc. Degree from any recognized University
Duration of the Course : 2 Years
Documents to be Produced : Original Degree Marks cards with 2 set Xerox,
6 photoes. Date of Birth Certificate

SUBJECT TO BE STUDIED :

Previous year

1. Chemistry of Biomolecules & Biostatistics
2. Cell and Molecular Biology
3. Microbiology and immunology
4. Basic Enzymology

Practical- I : Based on Paper I & II

Practical – II : Based on Theory

Paper III & IV

Final Year

1. Cell and Tissue Culture Technology
2. Industrial and Enviornmental Biotechnology
3. Computer Application and Bioinformatics
4. Recombinant DNA Technology

Practical – III : Based on Theory

Paper V & VI

Practical – V : Based on Paper VII & VIII

Note : Each paper is of 100 marks of which 15 marks is for Internal Assessment and 85 for Theory. Practicals is for 75 marks of which 65 is for Practicals and 10 for Record.

- Note : a) Study materials will be supplied by the University
b) Lab facility will be provided
c) Contact program will be arranged as per the schedule by the university.
d) Examination will be held at Bangalore.

M.Sc. IN ENVIRONMENTAL SCIENCE

Duration of the Course : Two Years

Eligibility : B.Sc. Degree from any Recognized University

Documents to be Produced : Original Degree Marks Cards with 2 set and 6
Photo Copies
Date of Birth Certificate

SUBJECT TO BE STUDIED :

Previous Year

1. Introduction to Ecology and Environment
2. Biodiversity and Natural Resource Conservation and Management
3. Occupation Health Hazard, Control and Management
4. Environmental Education Environmental Policy and Legislations

Practical – I : Based on theory Paper I & II

Practical -II : Based on Theory Paper III & IV

Final Year

5. Environmental Pollution and Monitoring
6. Environmental Toxicology and Bio Statistics
7. Environmental Engineering and Bio Technology
8. Global Environmental Changes, Natural Hazards and Impact Assesment

Practical –I : Based on theory Paper V & VI

Practical -II : Based on Theory Paper VII & VIII

Note : Each paper is of 100 marks of which 15 marks is for Internal Assessment and 85 for Theory. Practicals is for 75 marks of which 65 is for Practical and 10 for Record.

- Note :
- a) Study materials will be supplied by the University only
 - b) Lab facility will be provided
 - c) Contact program will be arranged as per the schedule by the university.
 - d) Examination will be held at Bangalore

M.Sc. IT

General Entry and Exit Scheme for the KSOU IT- Courses

Eligibility :

- a) Graduates of any discipline with at least 6- months IT/ computer diploma or 1 year IT experience are eligible for admission to the 1st semester of the master of Science in Information Technology M.Sc. (IT).
- b) Graduates in BCA / BIT / B.E./ B.Tech/ AMIE / B.Sc. (IT) / B.Sc. (Comp. Sci.) from recognized university are eligible for admission to the 1ST semester of M.Sc. (IT).
- c) Graduates in any discipline, who have not done any IT or related courses, can get direct admission to M.Sc. (IT). 1ST Semester by doing the six months foundation course concurrently with M.Sc. (IT) 1st semester or separately as a pre requisite foundation course.

Lateral Entry and Lateral Exit Scheme for the KSOU IT - Courses

Lateral entry to the third semester of M.Sc.(IT) :

- a) Any graduate with PAGDCA / PGDIT or equivalent certificate from a recognized university OR
- b) Any graduate with 'A' level certificate of DOEACC
- c) Any graduate with B.E.(C.Sc./ IT) or MCA is eligible to take direct to the M.Sc. (IT) 3rd semester

NOTE :

Lateral exit scheme for B.Sc. (IT) and M.Sc. (IT).

The IT courses have been designed with modules of different levels of training at the various semester levels of both B.Sc.(IT) and M.Sc. (IT) degree. Keeping in mind the terminal dexterity attained by the candidates, Certificates / Diploma will be awarded by the university to candidates at different levels.

Duration of the course : Minimum 2 years / maximum 4 years (4 semester)

Subjects to be Studied :

I SEM

1. Industrial Management
2. Analysis and Design of Algorithms
3. Analysis and Design of Algorithms (Lab)
4. Advance Operating Systems
5. Visual Programming
6. Visual Programming (Lab)

II SEM

1. Software Quality and testing
2. Advanced networks
3. OOAD and UML
4. OOAD and UML (Lab)
5. Advanced Java
6. Advanced Java (Lab)

III SEM

1. Project Management
2. Client Server Computing
3. Project
4. Electives (any one of the following streams)

Electives - Stream 1 : E- Commerce

1. E-Commerce
2. Data warehousing/ Data mining

Electives – Stream 2 : Systems and Networking

1. Internet Programming
2. Mobile Computing

Electives - Stream 3 : Multimedia and Cognition

1. Pattern Reorganization
2. Multimedia Computing

IV SEM

1. Distributed Database
2. Component Technologies
3. Project

Electives- Stream 1 : E-Commerce

1. Cyber Laws
2. Application Servers

Electives – Stream 2 : Systems and Networking

1. Linux Internals
2. Embedded Systems

Electives – Stream 3 : Multimedia and Cognition

1. Computer Cognition

2. Image Processing

NOTE : In the 3rd semester, a student has to opt for any one of the three elective streams in addition to the two core courses. The candidate has to remain in the same elective stream in both the 3rd & 4th semester as do his project preferably in his field of elective Specialization.

SUBJECTS :

For M.Sc. (IT) 1st SEMESTER

1. Total Personality Development Programme
2. Software Engineering
3. OOPS with Java
4. RDBMS

PRACTICALS

1. OOPS with Java (LAB)
2. RDBMS (Lab)

For M.Sc. (IT). 2nd Semester

1. Analysis & Design of Algorithms
2. Computer Net works - I
3. Advanced Operating Systems
4. Advanced Java

PRACTICALS

1. Analysis & Design of Algorithms (Lab)
2. Advanced Java (Lab)

For M.Sc. (IT). 3rd Semester

1. Computer Networks - II
 2. Software Quality & Testing
 3. Data warehousing & Data Mining
 4. Elective – 1
 5. Elective – 2
- Electives (Any Two of the following)

- a) Linux Internals
- b) Internet Programming
- c) Network Programming
- d) Multimedia Communication
- e) Pattern Recognition
- f) Cyber Laws & Intellectual Property Rights

For M.Sc. (IT) 4th Semester

1. OOAD with UML
2. Distributed Computing
3. Project
4. Elective – 3
5. Elective – 4

Electives (Any Two of the following)

1. Web Commerce
2. Embedded Systems
3. Image Processing
4. Mobile Computing
5. Soft Computing

Software Project & Management