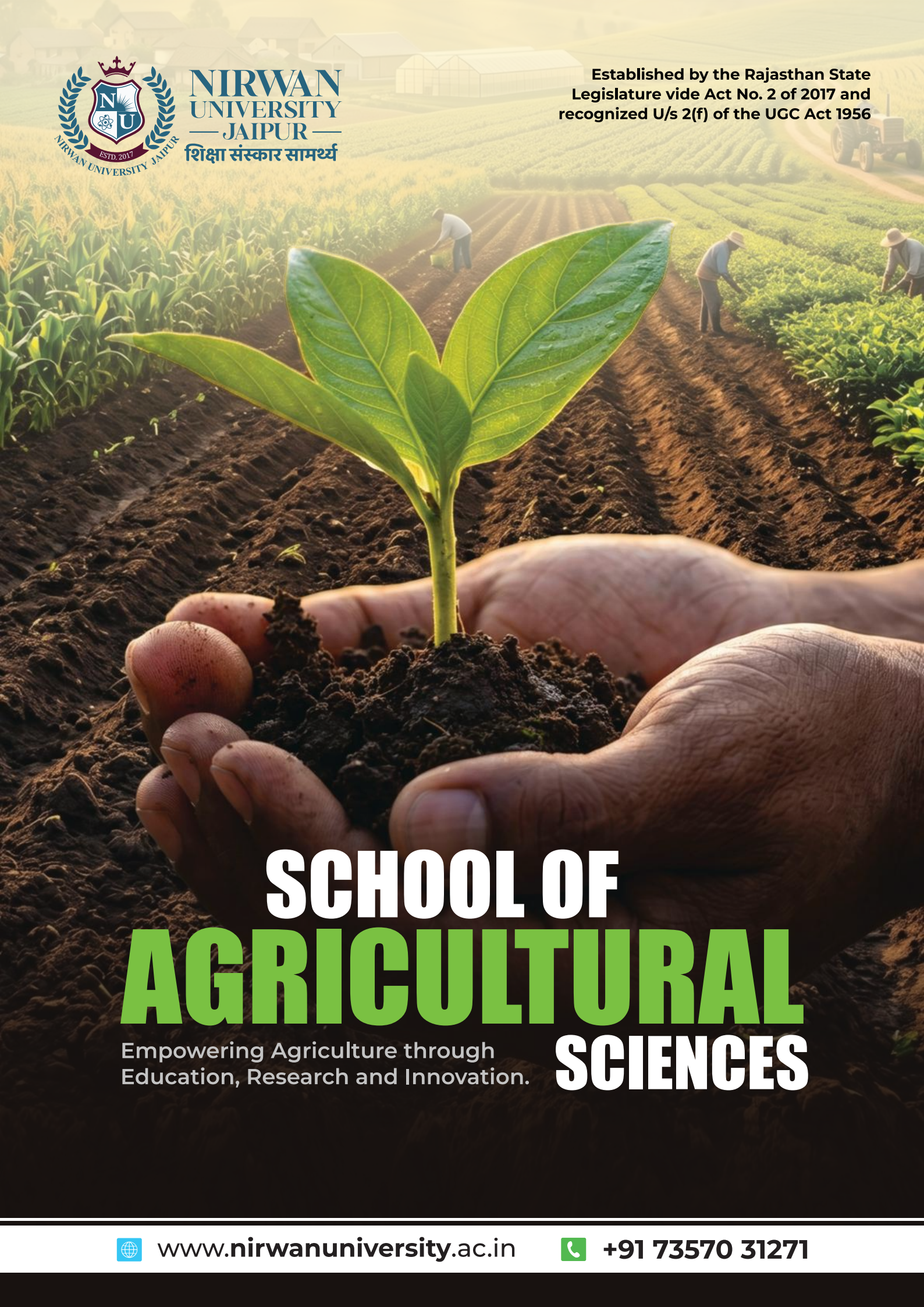




**NIRWAN
UNIVERSITY
— JAIPUR —**
शिक्षा संस्कार सामर्थ्य

Established by the Rajasthan State
Legislature vide Act No. 2 of 2017 and
recognized U/s 2(f) of the UGC Act 1956



SCHOOL OF AGRICULTURAL SCIENCES

Empowering Agriculture through
Education, Research and Innovation.



www.nirwanuniversity.ac.in



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ABOUT NIRWAN UNIVERSITY ►

Nirwan University Jaipur (NUJ) was established by the Government of Rajasthan vide Act No. 2 of 2017 and recognized u/s 2 (f) of the UGC Act, 1956 for the award of degrees u/s 22 of the UGC Act. Nirwan University Jaipur has twelve different schools with multiple programmes making it one of the most sought after options for higher education among students. It is promoted by "NIRWAN CHARITABLE TRUST", which also runs health care institutions, viz., S.N. Super Specialty Hospital, Sihag Hospital and Swastik Blood Bank at Sri Ganganagar, Rajasthan.

- Rajasthan Dental College and Hospital
- S.N. Institute of Nursing Sciences
- S.N. College of Law
- School of Allied Health Sciences
- School of Ayurveda, Naturopathy & Yogic Sciences
- School of Pharmaceutical Science
- School of Agricultural Sciences
- School of Commerce and Management
- School of Engineering and Technology
- School of Basic and Applied Sciences
- School of Library and Information Science
- School of Computer Science and Applications
- School of Art's Humanities and Social Sciences
- School of Physical Education and Sports
- School of Forensic Science and Cyber Forensic



The University pursues distinct teaching-learning methodologies and provides conducive academic environment with state of art facilities. The university encourages students to participate in various co-curricular and extra-curricular activities to ensure comprehensive and holistic development of their personality. University is committed to create conscious global citizens and leaders for tomorrow, thus provides an ecosystem of instilling human values along with quality education. The academic ecosystem includes well equipped infrastructure, Residential Campus, highly qualified, seasoned and research oriented faculty members in a salubrious environment.

INTRODUCTION ►

The School of Agricultural Sciences, Nirwan University, Jaipur is committed to excellence in agricultural education, research, innovation, and extension. Established with the vision of developing skilled agricultural professionals and entrepreneurs, the School offers academic programs that integrate scientific knowledge with practical field experience to address contemporary challenges in agriculture and rural development.

The School currently offers the B.Sc. (Hons.) Agriculture programme with an intake approved through the Joint Entrance Test (JET), Rajasthan, and follows the curriculum and academic standards prescribed by the Indian Council of Agricultural Research (ICAR), New Delhi. The curriculum is designed to provide students with a strong foundation in agricultural sciences while fostering critical thinking, problem-solving abilities, and entrepreneurial skills.

In addition to undergraduate education, the School offers Master's degree programmes (M.Sc. Agriculture) in specialized disciplines including Agronomy, Soil Science and Agricultural Chemistry, Vegetable Science, and Fruit Science. These postgraduate programmes emphasize advanced learning, research methodology, laboratory and field experimentation, and innovation-oriented approaches to sustainable agricultural development.

The School is equipped with well-developed laboratories, instructional farms, research facilities, and experienced faculty members dedicated to providing quality education and mentorship. Through experiential learning, field visits, Rural Agricultural Work Experience (RAWEx), internships, and research projects, students gain practical exposure to modern agricultural technologies and farming systems.

With a focus on academic excellence, research advancement, and industry-academia collaboration, the School of Agricultural Sciences strives to produce competent professionals, researchers, and entrepreneurs capable of contributing significantly to agricultural productivity, food security, environmental sustainability, and rural prosperity at regional, national, and global levels.

OBJECTIVES ►

- To provide quality agricultural education that develops scientifically competent, skilled, and socially responsible agricultural professionals.
- To impart comprehensive knowledge in agricultural sciences through innovative teaching methodologies, practical training, and experiential learning.
- To promote research and innovation in agriculture, horticulture, soil science, crop production, and allied disciplines for sustainable agricultural development.
- To develop entrepreneurial and leadership skills among students, enabling them to create employment opportunities and contribute to the agribusiness sector.
- To strengthen industry-academia collaboration for enhancing practical exposure, internships, skill development, and employability of students.
- To encourage interdisciplinary learning and research for addressing emerging challenges related to food security, climate change, natural resource management, and sustainable agriculture.
- To provide advanced postgraduate education and research opportunities in specialized disciplines such as Agronomy, Soil Science and Agricultural Chemistry, Vegetable Science, and Fruit Science.
- To promote the adoption of modern agricultural technologies, precision farming, digital agriculture, and climate-smart agricultural practices.
- To foster extension and outreach activities for effective transfer of agricultural technologies and knowledge to farming communities.
- To develop professionals capable of contributing to national agricultural growth, rural development, environmental sustainability, and global food security.
- To inculcate ethical values, professionalism, and lifelong learning among students to meet the evolving demands of the agricultural sector.
- To support the vision of Atmanirbhar Bharat and sustainable rural prosperity through education, research, innovation, and entrepreneurship in agriculture.

VISION ►

To be a center of excellence in sustainable agriculture, environmental conservation, and community development, and to be recognized nationally and internationally for our contributions to the field of agriculture.

MISSION ►

- ▶ To establish a strong foundation in the fundamentals linking knowledge and skills through experiential learning.
- ▶ To develop a system of excellence in pedagogy for teaching, research and fieldwork training opportunities to students in order to bring improvements in the agricultural sector.
- ▶ To empower its diverse faculty and staff to innovate, discover, and push the frontiers of knowledge to address critical education and research needs of modern society.
- ▶ To equip students with the knowledge, skills, and practical experience necessary to become leaders in the agricultural industry.
- ▶ To promote sustainable agriculture practices, environmental conservation, and community development through research, education, and outreach.

PROGRAMMES OFFERED ►

S.N.	PROGRAMME	ELIGIBILITY	DURATION
1	B.Sc. (Hons.) Agriculture	The candidate must have successfully completed 10+2 in Science (with Physics, Chemistry and Biology/Mathematics/Agriculture with min. 50%. The Admission is based on JET Exam conducted by SAU's of Govt. of Rajasthan.	4 Years (8 Semester)
2	M.Sc. (Agri.) Agronomy	The candidate must have successfully completed B.Sc. (Hons) Agriculture through JET/National Level/State Level entrance examination or the candidate completed their degree program from government recognised university and their constituent colleges of Rajasthan with at least 50% marks in qualifying examination.	2 Years (4 Semester)
3	M.Sc. (Horticulture) Vegetable Sciences	The candidate must have successfully completed B.Sc. (Hons) Agriculture/ B.Sc. (Hons) Horticulture through JET/National Level/State Level entrance examination or the candidate completed their degree program from government recognised university and their constituent colleges of Rajasthan with at least 50% marks in qualifying examination.	2 Years (4 Semester)
4	M.Sc. (Horticulture) Fruit Sciences	The candidate must have successfully completed B.Sc. (Hons) Agriculture/ B.Sc. (Hons) Horticulture through JET/National Level/State Level entrance examination or the candidate completed their degree program from government recognised university and their constituent colleges of Rajasthan with at least 50% marks in qualifying examination.	2 Years (4 Semester)
5	M.Sc. (Agri.) Soil Science and Agricultural Chemistry	The candidate must have successfully completed B.Sc. (Hons) Agriculture through JET/National Level/State Level entrance examination or the candidate completed their degree program from government recognised university and their constituent colleges of Rajasthan with at least 50% marks in qualifying examination.	2 Years (4 Semester)



LABORATORY FACILITIES ►

The School of Agricultural Sciences has established well-equipped laboratories in accordance with the guidelines and recommendations of the Indian Council of Agricultural Research (ICAR), New Delhi, to provide quality practical training, research exposure, and skill development to undergraduate and postgraduate students. The laboratories are designed to support experiential learning, research activities, and hands-on training in various disciplines of agricultural sciences.

Agronomy Laboratory

Major Facilitie

- Seed germination chambers
- Seed testing equipment
- Crop growth measurement instruments
- Moisture meters
- Weather monitoring instruments
- Precision agriculture demonstration tools

Practical Training Areas

- Crop production techniques
- Weed identification and management
- Cropping systems and resource management
- Agronomic experiments and field trials



Soil Science and Agricultural Chemistry Laboratory

Major Facilitie

- Soil sampling and analysis equipment
- pH Meter and EC Meter
- Flame Photometer
- Spectrophotometer
- Kjeldahl Nitrogen Estimation Unit
- Soil Texture Analysis Apparatus
- Soil Moisture Meter

Practical Training Areas

- Soil fertility analysis
- Soil physical and chemical properties
- Fertilizer recommendation and nutrient management
- Water quality assessment
- Soil health evaluation

Horticulture Laboratory

Major Facilitie

- Fruit and vegetable quality assessment equipment
- Grafting and budding tools
- Nursery management facilities
- Protected cultivation demonstration units
- Post-harvest handling equipment

Practical Training Areas

- Fruit crop production
- Vegetable cultivation
- Plant propagation techniques
- Nursery management
- Protected cultivation technologies



Plant Pathology Laboratory

Major Facilitie

- Compound and Stereo Microscopes
- Laminar Air Flow Chamber
- Autoclave
- Incubators
- Hot Air Oven
- BOD Incubator

Practical Training Areas

- Identification of plant diseases
- Isolation and culturing of pathogens
- Disease diagnosis
- Biological control methods
- Integrated disease Management

Entomology Laboratory

Major Facilitie

- Insect collection and preservation units
- Microscopes
- Insect rearing cages
- Insect identification kits
- Specimen display cabinets

Practical Training Areas

- Insect taxonomy
- Pest identification
- Biological control studies
- Integrated pest management
- Insect collection and preservation



Computer Lab



Online Class Studio

SPECIAL ICAR-COMPLIANT LEARNING FACILITIES ►

- Experiential Learning Programme (ELP) Units..
- Rural Agricultural Work Experience (RAWE) Facilities.
- Hands-on Training (HOT) Modules.
- Smart Classrooms and ICT-enabled Teaching.
- Central Instrumentation Facility.

- Seed Processing and Storage Unit.
- Weather Observatory.
- Vermicomposting Unit.
- Mushroom Production Unit.
- Biofertilizer and Biopesticide Demonstration Units.

These laboratories and practical facilities ensure that students receive comprehensive theoretical knowledge, hands-on practical training, research exposure, and entrepreneurial skills in accordance with ICAR standards and the National Education Policy (NEP) framework.

EMPLOYMENT OPPORTUNITIES OF PROGRAMMES ►

Agriculture is one of the fastest-growing sectors of the economy and offers a wide range of career opportunities in education, research, agribusiness, government services, and entrepreneurship. With increasing emphasis on food security, sustainable agriculture, climate-smart farming, precision agriculture, and agri-technologies, the demand for qualified agricultural professionals is continuously rising at national and international levels.

FUTURE SCOPE ►

Graduates and postgraduates in Agricultural Sciences can pursue higher education such as M.Sc., Ph.D., and Post-Doctoral research in specialized disciplines. Opportunities are available in agricultural research, teaching, extension services, agribusiness management, rural development, biotechnology, food processing, and allied sectors. The integration of digital technologies, artificial intelligence, drone applications, and sustainable farming practices has further expanded the scope of agricultural careers.

STUDENTS CAN BUILD CAREERS AS ►

- Agricultural Officer
- Agriculture Development Officer (ADO)
- Subject Matter Specialist (KVK)
- Agricultural Research Scientist
- Assistant Professor/Lecturer
- Horticulture Officer
- Soil Scientist

- Farm Manager
- Agricultural Extension Officer
- Quality Control and Certification Officer
- Agribusiness Manager
- Rural Development Officer
- Agricultural Consultant
- Project Coordinator in Government and NGOs



APPROVAL AND AFFILIATION



PROGRAMME OFFERED IN NUJ

RAJASTHAN DENTAL COLLEGE & HOSPITAL

- ◆ Bachelor of Dental Surgery (B.D.S.)
- ◆ Master of Dental Surgery (M.D.S.) -
Conservative Dentistry & Endodontics
Oral & Maxillofacial Surgery
Orthodontics & Dentofacial Orthopaedics
Prosthodontics, Crown & Bridge, Periodontics
Pedodontics, Oral Medicine & Radiology
Oral Pathology & Microbiology
Public Health Dentistry
- ◆ Doctor of Philosophy (Ph.D.)

S.N. INSTITUTE OF NURSING SCIENCES

- ◆ Bachelor of Science (B.Sc.) - Nursing
- ◆ Doctor of Philosophy (Ph.D.)

SCHOOL OF PHARMACEUTICAL SCIENCE

- ◆ Bachelor of Pharmacy (B.Pharm)
- ◆ Diploma in Pharmacy (D.Pharm)
- ◆ Doctor of Philosophy (Ph.D.)

S.N. COLLEGE OF LAW

- ◆ BA LL.B. (Bachelor of Arts and Bachelor of Legislative Law)
- ◆ LL.B. (Bachelor of Laws or Bachelor of Legislative Law)
- ◆ LL.M. (Masters of Laws) - Corporate and Commercial Law
Constitutional Law and Administrative Law
Criminal and Security Law, Intellectual Property Law
Cyber and Security Law
- ◆ Doctor of Philosophy (Ph.D.)

SCHOOL OF FORENSIC SCIENCE AND CYBER FORENSIC

- ◆ Diploma in Forensic Science
- ◆ Bachelor of Science (B.Sc.) in Forensic Science
- ◆ Master of Science (M.Sc.) in Forensic Science

SCHOOL OF COMPUTER SCIENCE AND APPLICATIONS

- ◆ Bachelor of Computer Applications (BCA)
- ◆ Master of Computer Applications (MCA)
- ◆ Post-Graduation Diploma in Computer Applications (PGDCA)
- ◆ Doctor of Philosophy (Ph.D.)

SCHOOL OF ALLIED HEALTH SCIENCES

- ◆ Bachelor of Physiotherapy (BPT)
- ◆ Master of Physiotherapy (MPT) - Cardio-Pulmonary Science,
Neuroscience, Musculoskeletal Science, Sports Science
- ◆ Bachelor of Medical Radiology and Imaging Technology (BMRIT)
- ◆ Bachelor of Medical Laboratory Sciences (BMLS)
- ◆ Bachelor of Anaesthesia & Operation Theatre Technology (BAOTT)
- ◆ Diploma in Medical Laboratory Technology (DMLT)
- ◆ Diploma in Radiation Technology (DRT)

SCHOOL OF COMMERCE AND MANAGEMENT

- ◆ Bachelor of Commerce (B.COM.)
- ◆ Bachelor of Business Administration (BBA)
- ◆ Master of Business Administration (MBA) - HRM,
Finance, Sales & Marketing, Hospital Management
- ◆ Master of Commerce (M.COM.) - ABST, BADM, EAFM
- ◆ Doctor of Philosophy (Ph.D.)

SCHOOL OF ENGINEERING AND TECHNOLOGY

- ◆ Diploma Engineering (Polytechnic) -
Electrical Engineering, Mechanical Engineering
Computer Science Engineering
- ◆ Bachelor of Technology (B.Tech.) -
Electrical Engineering, Mechanical Engineering
Computer Science Engineering
- ◆ Master of Technology (M.Tech.) - Power System
Production Engineering, Renewable Energy Technology
Computer Science Engineering
- ◆ Doctor of Philosophy (Ph.D.)

SCHOOL OF AGRICULTURAL SCIENCES

- ◆ B.Sc. (Bachelor of Science) - Agriculture (Hons.)
- ◆ M.Sc. (Agriculture)- Agronomy,
Soil Science and Agricultural Chemistry
- ◆ M.Sc. (Horticulture)- Fruit Science, Vegetable Science
- ◆ Doctor of Philosophy (Ph.D.)

SCHOOL OF BASIC AND APPLIED SCIENCES

- ◆ Bachelor of Science (B.Sc.) - (CBZ/PCM)
- ◆ Master of Science (M.Sc.) - Chemistry, Mathematics,
Physics, Botany, Zoology
- ◆ Doctor of Philosophy (Ph.D.)

SCHOOL OF LIBRARY AND INFORMATION SCIENCE

- ◆ Diploma in Library and Information Science (DLIS)
- ◆ Bachelor of Library and Information Science (BLIS)
- ◆ Master of Library and Information Science (MLIS)
- ◆ Doctor of Philosophy (Ph.D.)

SCHOOL OF PHYSICAL EDUCATION AND SPORTS

- ◆ Bachelor of Physical Education and Sports (BPES)
- ◆ Master of Physical Education and Sports (MPES)
- ◆ Doctor of Philosophy (Ph.D.)

SCHOOL OF AYURVEDA, NATUROPATHY & YOGIC SCIENCES

- ◆ Bachelor of Naturopathy and Yogic Sciences (BNYS)
- ◆ Bachelor of Science (B.Sc.) - Ayurveda Nursing
- ◆ Diploma in Ayush Nursing and Pharmacy (DAN&P)
- ◆ Bachelor of Arts in Yoga (BA-Yoga)
- ◆ Master of Arts in Yoga (MA-Yoga)
- ◆ P.G. Diploma in Yoga
- ◆ Diploma in Yoga
- ◆ Doctor of Philosophy (Ph.D.)

SCHOOL OF ARTS, HUMANITIES AND SOCIAL SCIENCES

- ◆ Bachelor of Arts (BA)
- ◆ Master of Arts (MA) - Hindi, English, Geography,
History, Political Science, Sociology
Social Work (MSW), Psychology
- ◆ Doctor of Philosophy (Ph.D.)



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