



# *Looking Forward : Gyan Vihar School of Sciences*



## **An Overview**

Biosciences have made rapid progress over first decade of 21st century. Much of this success is due to the expectation that the development of new technologies can produce various compounds beneficial to the daily lives of human beings and in preserving the environmental health of the earth. Our efforts are dedicated to elucidating various biological mechanisms and determining their utilization in the interest of human welfare. School of Science was established in the year 2003. It offers post graduate courses in Biotechnology, Microbiology and Biochemistry. Ph.D program in these courses is also an integral part of the department reflecting the research avenues in these subjects. The aim of these programs is to expose the student to state-of-art research skills and in-depth knowledge of advanced biology chemistry to harness the potentials of biotechnology. In the past few years we have generated numerous biotechnologists, microbiologists, biochemists, research scholars, teaching personnel, Quality control managers, Quality assurance officers who are serving in different firms of the country and abroad and have made us feel proud.





## Programs offered

Programs	Qualification	Selection Criteria
M.Sc Biotechnology	Graduation with 55%	Direct
M.Sc Microbiology	Graduation with 55%	Direct
M.Sc Biochemistry	Graduation with 55%	Direct

## Core Composition

School of Sciences has to its credit the excellent infrastructure, state of the art laboratories and modern equipments. It provides advanced as well as basic amenities to all the students to give them better insight of theoretical knowledge & practical training. Various labs of PG courses have sophisticated instruments like Thermocycler, UV-Spectrophotometer, Colorimeter, Flame Photometer, Photo Fluorometer, Haemoglobinometer, Potentiometer, Atomic Absorbance Spectrophotometer, Chemical Auto Analyzer, Polarimeter, Conductivity meter, Rotary Shaker, Cooling Centrifuge, BOD incubator, Orbital Shaker, UV-transilluminator, Vertical and Horizontal Electrophoresis devices, Tissue Homogeniser, Laminar Air Flow Hoods, Deep Freezer, Micro Biological filters, Qubec Colony Counter, Vortex Mixers, Microcentrifuges, Photographic Microscopes & spacious aseptic rooms, media preparation rooms and culture room. Besides, all these instruments the laboratories are well facilitated with chemicals, media, cultures and experiment kits for the practicals.



## M.Sc Biotechnology

Biotechnology seems to be leading a sudden new biological revolution. It has brought us to the brink of a world of "engineered" products that are based on the natural world rather than on chemical and industrial processes.

It is the science which will yield the wonder drugs of tomorrow, also new varieties of plants and animals. The students in this course will be given a brief introduction to Genetic Engineering, Bioprocess Engineering, Molecular Biology, Plant Biotechnology, Animal Cell Culture and Environmental Biotechnology etc.

Keeping in mind the diverse opportunities of this field, students can search their future in respective areas: Genetic engineering, Stem cell technology, Enzyme engineering and technology, Recombinant DNA technology, Plant Tissue Culture, Nano biotechnology, Nutraceuticals, DNA vaccines, Plant based drugs, Assisted reproductive technologies, Immuno-diagnostics, Gene Therapy, Peptide synthesis, Rational drug designing, Bioremediation, Biosensor, Processing of low-grade ores using microorganisms, Bioinformatics including genomics and proteomics etc.





### **M.Sc. Microbiology**

Masters of Science is an innovative subject amalgamating conventional methodology with advancement in science and technology to generate various products beneficial to mankind and society. Drawing on the courses currently offered through the existing Master of Science in Microbiology, the interdisciplinary curriculum blends the key components of micro-organisms and their biology. Subjects like molecular biology, biochemistry, computational biology, biostatistics, recombinant DNA technology, bioprocess and food technology, bioinformatics, industrial and microbial technology, virology,

immunological techniques, environmental sciences etc. as micro-organisms have enormous applications in various fields like agriculture, forestry, dairy, food processing, food industry, antibiotic production, vaccine production, public health, bioplastics, biofertilizers, biopesticides, leather production, forensic sciences, marine biology, metal recovery etc. The scope and significance of microbiology has enlarged many folds, particularly when importance of environment was realized globally.

### **Our Training Associates**

National Dairy Research Institute Karnal; CIMAP Lucknow; Defence Research Development Organization Jodhpur; National Institute of Oceanography Goa; National Institute of Immunology Delhi; CFTRI Mysore; Center for Cellular and Molecular Biology Pune; Center for Sheep and Wool Research Institute Avikanagar; BARC Bombay; Indian Agriculture Research Institute PUSA Delhi; Central Drug Research Institute Lucknow; National Research Centre on Camel Bikaner; Central Jalma Institute for Leprosy and other Mycobacterial Diseases Agra; Rajasthan Agriculture University Bikaner; Central Arid Zone Research Institute Jodhpur; All India Institute of Medical Sciences New Delhi; Jiwaji University Gwalior; JawaharLal Nehru University New Delhi; M.R. Morarka GDC Rural Research Foundation Jaipur; Desert Medicine Research Centre Jodhpur; Institute of Medical Sciences BHU Varanasi; National Bureau of Animal Genetic Resources Karnal; Forest Research Institute Dehradun; G. B. Pant Institute of Himalayan Environment & Development Almora; Birla Institute of Scientific Research Jaipur; National Institute of Virology Pune and many more.



### **M.Sc Biochemistry**

Biochemistry is one-term introduction to the chemical composition and functioning of organisms at the cellular level. Primary emphasis is given to human physiology and clinical applications in both normal and abnormal conditions. The students in this course will be given a brief introduction to organic chemistry which will include, in part, nomenclature, chemical structures and appropriate information regarding reactivity, physical parameters etc. In addition, the students study in detail, protein, carbohydrate, lipid and nucleic acid chemistry. Biochemical pathways and intracellular control of chemical processes are also described. This course assumes an adequate background in both biology and chemistry.

The scope of biochemistry extends over a wide range of interests, dealing for example, with predominantly biological aspects of function or equally with the detailed chemistry and physics of biological molecules and the way in which they interact with one another.

Graduates and Post graduates in Biochemistry find employment in many different areas. These include: hospitals, diagnostic centres, Universities and CSIR research laboratories, research and development in private industries, blood banks and serum laboratories, biotechnology industries, food industries, chemical and pharmaceutical industries, Government departments (e.g. Forensic Science, Agriculture, Health, Patent division) and also new emerging areas of clinical research.





## Stratagem

### Dissertation

Fourth semester comprises of dissertation, a minor research program to be done in the CSIR, ICAR institutes or industries of Biotechnology. Our collaboration with several research laboratories, institutes and industries have made the ways swifter for the students to accomplish this minor research program. They are supposed to apply at various places by sending the recommendation letter forwarded by the Dean, School of Sciences. Dissertation reports are to be submitted by the students and published following the norms and regulations formulated by the school of sciences. Students of our university have received training from institutes of repute.

After the completion of the dissertation program the student has to submit a thesis of approximately 100 pages along with the certificate of the institute from where he/she has done the dissertation work.

### Elective Courses

Along with the practical training the students also have to do a detailed research on any topic as elective paper. This elective paper is a way of acquiring indepth knowledge of the topic assigned to the student. This makes them efficient in searching the related theory, data, facts and figures. A thesis of approx 100 pages is to be submitted by the candidate that has a weightage of 100 marks. The assessment of the fourth semester is done on the basis of thesis and power point presentation given by the candidate and internal assessment on the basis of elective course.

### In-house research projects

School of sciences has introduced in its curriculum a mini research project of six months. During the third semester every student of PG program has to do research on a topic under the guidance of assigned faculty member. Every student has to study the relevant topic and search various aspects of the topic and work and what is happening on it across the world in order to prepare the review of the topic. This helps him to design his work of plan. Then he/she performs the experiments on the topic to derive the results. This experiment work inculcates in him/her innovativeness, patience, analytical power and sense of observation, besides builds in confidence. This six month research program also sharpens the practical skills of the students so he/she is well prepared for the dissertation work supposed to be done in fourth semester.

### Seminars / Conferences

Classroom teaching adds knowledge to the minds of the student. Several topics of the recent advancement in biosciences are given to the students to deliver a power point presentation on the assigned topic. The student has to prepare slides as visual media makes the understanding of the topic better. The student has to give the presentation for 20 minutes after which he has to satisfy the queries put up by other students and faculty members. This not only builds in the confidence but also enhances their communication skills. Besides, for the past six years, School of sciences has been organising National Conferences/Seminars on various issues. Thrust areas of the conference are recent developments in biotechnology, microbial diversity and taxonomy, nutraceuticals, environmental issues, green chemistry, medicinal chemistry, drug designing, advanced enzyme technology, immunological bioinformatics, proteomics and genomics. Scientist, Research scholars are invited from the state and around to add on the knowledge of our students.

### Career Prospects

Job opportunities after completing a course in Biotechnology, Microbiology and Biochemistry are tremendous. There is a great demand in biotech firms, research laboratories and chemical laboratories for scientists, Junior Assistants and researchers etc. in leading institutes of the country like AIIMS, IISc, ICAR, ISAT, IARI, IIPR, CFTRI, CDRI, CIMAP, NBRI, DOR, Swaminathan Research Foundation, DOT, DWR, BARC, JNU, BHU, NCL, AMU, IIT Delhi, Biocon, Panacea Biotech, Lupin, Dr. Reddys Lab., Reliance Life Sciences, etc., where students after getting a post graduate degree can opt their career in the field of research and development programmes. Some industries employ biotechnologists as well as microbiologists in their marketing divisions to develop business in sectors where their products would be required. Forensic Labs, Chemical & Pharmaceutical industries are offering alluring pay package to Biochemist, Microbiologists, Pharmaceutical Biotechnologists and Molecular Biologists. Government labs are constantly on the lookout for trained persons in these areas.

**Our Science Students have been placed in various top notch companies**





# *Looking Forward :* *Your Engineering Degree*

An Engineering professional has to meet many challenges in the field. The main objective of any engineering college is to inculcate the capabilities in their students, to face the challenging world. The major capabilities are to be ready to face the examination, written and oral presentation, hands on experience on machines and equipments and tendency to work for longer hours and above all to be a good human being. Gyan Vihar School of Engineering and Technology with undergraduate students strength of **4000** and **220** faculty members, is always striving to provide the platform to develop these capabilities. In the college several programs have been introduced: the **Continuous Evaluation System-MT** to prepare the students for examination, assignments and tutorials to work hard on academics, **Center for Career Building and Leadership development** to develop personality, **Laboratory Classes** to have hands on experience on machines and equipments, **Student Seminars** for improving the presentation skills, **Students Projects** to enhance the creativity amongst the students. The list is ever increasing. Further to this, our students and faculty participates in many national and international seminars and model competitions and brings laurels to the college.

The above activities are not possible until and unless we have a college faculty with a solid combination of great experienced teachers and energetic new young members. Other important additions to the College includes wireless technology and mediated classrooms. We have wireless technology in the college to allow all our student access to the Internet and is enhanced by having a full fledged internet lab and faculty resource room.

Seminar Hall is equipped with advanced media equipments and communication lab with facility to improve the oral communication skills in English. Many experts in the field of Electronics and Communication Engineering, Computer Science and Technology, Information Technology, Mechanical Engineering, Electrical Engineering, Civil Engineering and other Engineering departments visit to campus and provide valuable insight into the future of various branches of engineering and what employers are looking for in engineers. They are very effective in helping to develop resources for the University to meet its needs and to enhance its programs. We highly value their time and appreciate their willingness to support the University in numerous ways.

During the stressful working days, students need to be given a foster parenthood away from home in the University. It has a tutor guardian scheme. The focus of this activity is to keep track on individual student and counsel them by the tutor guardian. The tutor guardians are faculty members.

We appreciate alumni who encourage their employers to attend Job Fairs, hire our students for internships, and those who support senior projects and other college activities. If you want to have a unique educational experience which help you to reach your ultimate potential, you will find it here.





# Learn Engineering with NBA Accreditations

## Undergraduate programs in engineering

Programs	Duration	Qualification	Entrance
B.TECH COMPUTER SCIENCE	4 yrs	10+2 (65%) WITH PCM	AIEEE/IIT-JEE
B.TECH E&C	4 yrs	10+2 (65%) WITH PCM	AIEEE/IIT-JEE
B.TECH IT	4 yrs	10+2 (65%) WITH PCM	AIEEE/IIT-JEE
B.TECH MECHANICAL	4 yrs	10+2 (65%) WITH PCM	AIEEE/IIT-JEE
B.TECH ELECTRICAL	4 yrs	10+2 (65%) WITH PCM	AIEEE/IIT-JEE
B.TECH MECHATRONICS	4 yrs	10+2 (65%) WITH PCM	AIEEE/IIT-JEE
B.TECH CIVIL	4 yrs	10+2 (65%) WITH PCM	AIEEE/IIT-JEE
BCA	3 yrs	10+2 (60%)	UET
Dual Degree (B.Tech +M.Tech) (B.Tech E&C+M.Tech VLSI/IC/DWCE/SE)	5 Yrs	10+2 (60%) WITH PCM	AIEEE/IIT-JEE
Dual Degree (B.Tech +M.Tech) (B.Tech EE+M.Tech Power Sys/Energy)	5 Yrs	10+2 (60%) WITH PCM	AIEEE/IIT-JEE
Dual Degree (B.Tech +M.Tech) (B.Tech CS+M.Tech SE/IC/VLSI)	5 Yrs	10+2 (60%) WITH PCM	AIEEE/IIT-JEE
Dual Degree (B.Tech +M.Tech) (B.Tech ME+M.Tech Manuf./Energy)	5 Yrs	10+2 (60%) WITH PCM	AIEEE/IIT-JEE

### B.Tech Computer Science Engineering

B.Tech Computer Science Engineering 4 years course is offered by Department of Computer Science & Engineering. The department was established in the year 2000 and got NBA accreditation in the year 2008. The department believes that the industry needs specialized graduate engineers who can apply computer-based techniques to all stages of the industrialized process. This course provides extensive up-to-date knowledge of computer engineering skills, covering both software and hardware aspects of computer systems. These skills are necessary to provide technical support development of computer systems. The course covers the essential areas for future needs. You study programming languages, graphics & multi-media, Security & Application and System Software. You develop advanced computer skills and the ability to use them quickly and effectively in analysis, design and simulation. We have close links and tie ups with RED HAT, CISCO, IBM (TGM) and Microsoft. This keeps the course content up-to-date and relevant.

### Career Prospects

The job prospects for computer engineers are increasing rapidly both in India and abroad because of the boom in this industry.

System study, analysis, design and programming are the main areas which provide various probabilities to the computer science and engineering graduates to shape themselves in their career. Computer engineers develop computer programs for industries. Their work involves the design, development and maintenance of software. They are engaged in analyzing problems for solutions, formulating and testing, using advanced communications or multi-media equipment or working in teams for product development.

A computer engineering graduate with a high percentage of marks and good communication skills is easily absorbed in reputed companies. Along with the degree in computer science, the candidate will be well trained in the latest softwares. Software and IT companies are the main employers of these graduates. They can also find job opportunities in a variety of environments in university, research sector, private and public industries, government departments, business organizations, commercial organizations and the manufacturing sectors etc.







### **B.Tech Electronics & Communication Engineering**

B.Tech Electronics & Communication Engineering 4 years course is offered by the Department of Electronics and Communication Engineering. The department is the strongest pillar of the edifice of Gyan Vihar School of Engineering & Technology. Faculties of this department are alumni of the best institutions nationwide. The benchmark of an engineering college is the state-of-art laboratories. In adherence to these, 16 state-of-art laboratories have been established under ECE department, which calls for a handsome expenditure, but then there is no paucity of funds, for these are the essential requirement for the development of an engineer. State-of-art laboratories of ECE department are Digital Electronics Lab, Microwave Lab, Communication Lab, CAD VLSI Lab, Electronics Devices & CKT Lab, Industrial Electronics Lab, Electronic Measurement & Instrument Lab, Electrical & Electronics Lab, Micro Processor Lab, E&C Engg and Design Lab, Electronic Workshop, Controls Lab, Advance Communication Lab, ADV. DSP Lab, Advance Project Lab, Micro Controller Lab.

#### ***Career Prospects***

An electronics engineer can get a job in Central Government, State Government and their sponsored corporations in public enterprises and the private organizations like All India Radio, Indian Telephone Industries, MTNL, National Physical Laboratories, Civil Aviation Department; Post and Telegraph Department; Co-ordination Department, National Physical Laboratory, Bharat Electronics Limited, Development Centers in various States etc. dealing in manufacturing, sales and services of electronics consumer goods and appliances. Electronics engineers are also absorbed into the entertainment transmission industry, research establishments, and defense. They can also take up teaching and research in one of the many engineering colleges in India or abroad.

All the programmes offered by the Engineering department are aimed at growth and learning in a highly application based environment. Formal lectures are supplemented by hands-on-experience in well-equipped laboratories. These exercises and project activities equip the students with the state-of-art methodologies to design and operate the latest equipment and machines.

**Naveen Hemrajani**  
Vice - Principal

### **B.Tech Information Technology**

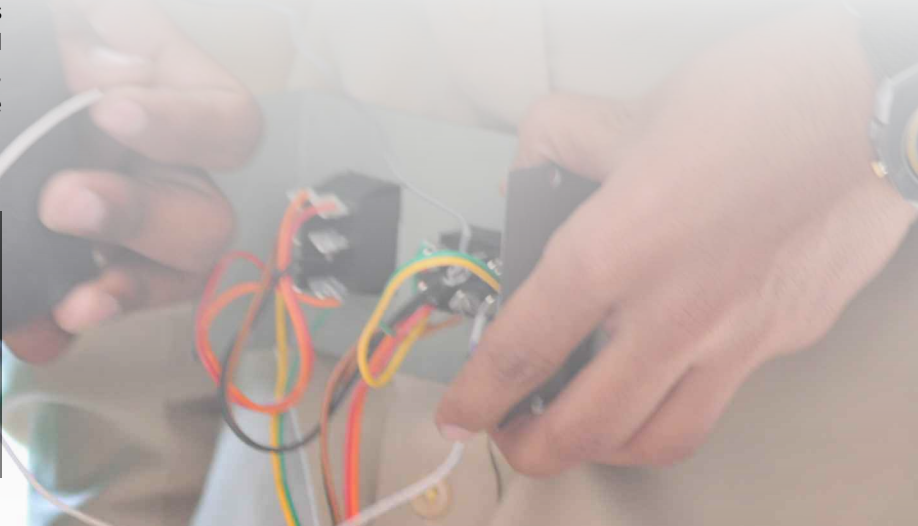
B.Tech Information Technology 4 years course is offered by the Department of Information Technology. The department was established in the year 2001. The vision is to build the department as a center of excellence in Engineering Education by inculcating in every student the art of creativity and productivity. The department has qualified and experienced faculty and technically competent supporting staff on its rolls.

It carries out research projects in the areas of Data mining, Data warehousing, Storage Area Networks and Distributed Databases. The department also interacts with the industries on a regular basis to keep the students abreast with technological developments and develop the capabilities in latest technologies. It offers a stimulating environment for its students for seeking solutions from real life project work, thus enabling students to build, motivate and lead project team effectively.

Department is well equipped with best infrastructure comprising of hardware and software. It manages over 150 computer systems equipped with latest tools like Linux, visual studio and distributed computing platforms. The department has Software Engineering, Communication, Internet network laboratories. The labs consist of most advanced P-IV systems with Windows NT/2003, Windows vista/XP/2000 professional operating systems. Separate Linux lab with dual OS is available with advanced Networking facilities. All the labs are LAN connected with licensed software packages related to latest global techniques. 24 X 7 internet facility is also given by the department through 1 GB band with link for better internet experience apart from that multimedia facilities are provided to student so that they can develop and sharpen their technical skills.

#### ***Career Prospects***

Information Technology encompasses a wide range of activities like Office Automation, Telecommunication and Computing, therefore provides a larger area of job avenues for IT professionals. They can get a job in Central Government, State Government and various public and private organization as a Developer, Project Manager, Data Modeler, Analyst, Database administrator, IT Security Manager, Application Architect, RFID System Engineer, Network Administrator etc. They can enhance their career in the field of teaching and research in various colleges and institute.





## B.Tech Electrical Engineering

B.Tech Electrical Engineering 4 years course is offered by the Electrical Engineering Department. The Department was started in year 2003. The faculty is well qualified and a balanced mix of new as well as experienced persons, having varied experience in teaching in various institutes and industries.

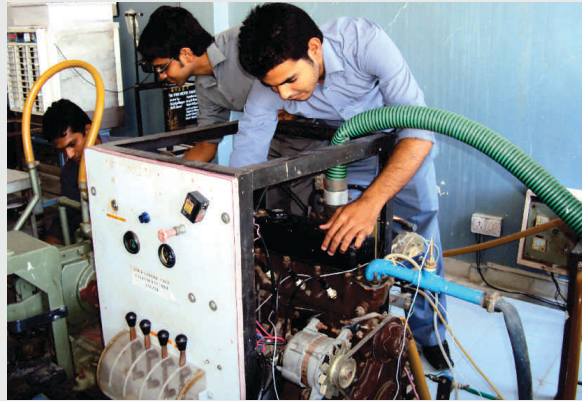
The department is equipped with Electrical workshop, Machine Lab-I, Machine Lab-II, Measurement Lab, Power Electronics Lab & Computer Lab. A cut model of the D.C. shunt motor, available in the lab is worth highlighting, which provides deeper knowledge of construction and operation of the same. Such cut models are generally not available in many labs. Measurement lab provides the opportunity to students to know about the measuring systems to measure various electrical parameters, while the power electronics lab acquaints the students regarding use of electronics in electrical engineering to achieve better performances. Computers have become the essential tool in almost every walk of life. To provide the required knowledge of computers to the students, number of computers are available in this lab.

### *Career Prospects*

Electrical graduates are employed in Electricity Boards/Utility companies and large industries as engineers and managers, responsible for installation, maintenance, operation of power handling equipments and systems. Industries manufacturing large electrical machines and equipments employ engineers in design, production and testing. Electrical engineers also find employment in atomic power plants, hydroelectric power plants as well as thermal power plants. Many electrical engineering graduates opt for careers in the food, pulp and paper, chemical, aircraft and automobile industries.

## B.Tech Mechanical Engineering

The department (established in 2000) of mechanical engineering is an NBA accredited department of Suresh Gyan Vihar University. The department has newly incorporated CNC XL turn machine which has increased the training facilities in the department along with that of CNC XL mill machine. The workshop is having all basic machines used by the industry such as lathe, shaper, and milling power hacksaw etc. Apart from these we have fitting shop, carpentry shop, steel metal shop and foundry.



These basic facilities are being supported by the instruments of metrology lab to keep pace with the present time of quality enhancement. Mechanical engineering deals with automobile, production, metallurgy, design and managerial aspects to create techno managers of the future. The labs which are continuously updated are AUTO CAD lab, R.A.C lab, CIM lab, HMT lab, vibration lab, DOM lab, Thermal lab etc. The department has collaboration with external bodies for the training of the students to design software according to market demand.

The placement record of SGVU is highly impressive. The Alumni occupy esteemed positions in various reputed organizations both in the country and abroad.

Courses offered at the mechanical department cover

the needs of the wide range of industries like aerospace, manufacturing, defense, space, construction, nano-engineering, energy, environment, transportation and nuclear energy.

### *Career Prospects*

Mechanical Engineering finds applications in all fields of technology. They could work in many industries including private or public sector industries of various types, and their work varies in industries and functions. In the government sector, freshers could join as Junior Engineers and go up the ladder as Assistant Engineers, Assistant Executive Engineers, Executive Engineers, Superintendent Engineers and so on. These engineers are required in automobile, chemical, electronics, steel plants, oil exploration and refining, technical wings of armed forces, space research organization, etc.







### **B.Tech Civil Engineering**

The department established in 2009, aims at synchronizing the civic life of human by harmonizing the natural resources available on earth involving the efficient involvement of the students of the University. Civil Engineering deals with the construction, soil mechanics, transportation, municipal and

sanitary, surveying and mapping and hydraulics and also the architectural basis of the buildings. Broadly, a civil engineer is expected to do planning, research, design and construction of buildings and roads; traffic and transportation, irrigation and power, water supply and sewage disposal, dams and abatement of air pollution, noise pollution and disaster mitigation and many more research areas which are to be explored in the times to come. The Department caters for UG and Dual Degree students. It has the well equipped fluid mechanics lab, strength of material, science lab and auto cab lab.

#### **Career Prospects**

Civil Engineers can find job in Government departments, private and public sector industries, research and teaching institutions etc. Job opportunities for civil engineers are expected to increase as fast as the average for all jobs, although the construction industry is vulnerable to fluctuations in the economy.

Civil engineers will always be needed to maintain and repair existing facilities and structures and to construct new ones. After doing B.Tech, one can look for jobs in road projects, building work, consultancy firms, quality testing laboratories or housing societies. Civil engineers are employed in all the major construction projects carried out by the state or central government, the railways, private construction companies, military, engineering services, consultancy services etc. Civil engineering graduates can also go in for research and take up teaching or they can open their own independent consultancy services.

### **B.Tech Mechatronics**

B.Tech in Mechatronics is one of the most hi-tech and demanding courses among the students of the country as well as in abroad. This course deals with the combined study of mechanical engineering, electronics engineering, computer engineering,

control engineering and system design engineering to create or rather to manufacture useful and essential products. The students opting for this course should be very much intelligent and laborious to carry on with the study of the course.

The course of B.Tech in Mechatronics provides the students with gross knowledge on the field of mechanics, microprocessors and other electronics devices, designing of various systems, software and hardware related works and on control engineering techniques.



#### **Career Prospects**

Mechatronic engineers have excellent employment prospects as the demand for qualified professionals with multi disciplinary skills combining knowledge of mechanical and electronic systems has increased in recent years. Professional mechatronics engineers are typically found in positions where they are responsible for integrated computer controlled mechanical and electrical systems such as those found in the manufacturing and mining industries. They are also employed in electrical plants and companies where automation and process control is required. Career opportunities in this fast-changing field exist in both private industry and publicly funded enterprises.





# INNOVATION IN ENGINEERING

## Dual Degree Program

Dual degree program has been designed to make it attractive for students who are willing to do their M.Tech, and thus contribute to the research efforts. The student benefits by getting an M.Tech degree with just one year of extra effort. The popularity of similar programs can be judged by the fact that most of the IIT's are running the similar kind of programs & have been steadily increasing their intake in five-year dual degree program, and now more than one-third of the students admitted there are in such programs. Meritorious M.Tech students are also expected to give a boost to undergraduate education, since they can help undergraduates in labs, and interact with them as teaching assistants.

## Advantage of Program

1. Time period of obtaining a Post Graduate Degree is reduced by 1 year.
2. Good academic and research work exposure to the student.
3. No requirement of facing competitive exams like GATE to take admission in M.Tech program.
4. Research Methodology can be learned as early as in the 4<sup>th</sup> year.
5. Low academic cost.
6. Variety of specializations are available and students may switch from core subjects of B.Tech.

"The focus is on imparting fundamental and application based knowledge to enable the students to excel in this age of cut-throat competition."

**Manish Sharma**  
Vice Principal

## Bachelor in Computer Application

Bachelor of Computer Applications (BCA) is a three years graduation Degree program. The course is designed to meet the growing demand for qualified professionals in the field of Information Technology. It is an undergraduate course that can be taken up after obtaining higher secondary education. The Curriculum and Syllabus of Bachelor of Computer Applications (BCA) course offered by Gyan Vihar University is designed considering the need of different Software Houses in India and abroad and has a high job potential in IT Sector.



## Career Prospects

The candidates who have earned their BCA degree can undertake any job in the area such as software programming, system and network administration, database administration, web designing and faculty in the computer science. However, with the recent boom in the outsourcing market, the candidates are also exploring the option to go to the outsourcing world. The candidates are placed in various developments as well as testing and manufacturing part of the outsourcing project through which they earn major of the work experience that would help them to explore the various opportunities in the coming years. Thus, according to the latest trend in the market, the demands for these BCA candidates is ever increasing and seems that it will be increased to a further extent.





# Advancement of Engineering Education

Teaching the next generation Engineers & Scientists

Programs	Duration	Qualification	Entrance
M.Tech Intelligent System & Robotics	2 Yrs	B.Tech/M.Sc with 60%	GATE/UET
M.Tech Automotive Engineering & e-Manufacturing	2 Yrs	B.Tech/M.Sc with 60%	GATE/UET
M.Tech Artificial Intelligence	2 Yrs	B.Tech/M.Sc with 60%	GATE/UET
M.Tech Software Engineering	2 Yrs	B.Tech/M.Sc with 60%	GATE/UET
M.Tech VLSI Engineering	2 Yrs	B.Tech/M.Sc with 60%	GATE/UET
M.Tech Energy Engineering	2 Yrs	B.Tech/M.Sc with 60%	GATE/UET
M.Tech Information Communication	2 Yrs	B.Tech/M.Sc with 60%	GATE/UET
M.Tech Manuf. & Industrial Engineering	2 Yrs	B.Tech/M.Sc with 60%	GATE/UET
M.Tech Digital & Wireless Comm. Engineering	2 Yrs	B.Tech/M.Sc with 60%	GATE/UET
M.Tech Power System	2 Yrs	B.Tech/M.Sc with 60%	GATE/UET
M.Tech CS(Full Time)	2 Yrs	B.Tech/M.Sc with 60%	GATE/UET
M.Tech CS (Part Time)	3 Yrs	B.Tech/M.Sc with 60%	GATE/UET
MCA	3 Yrs	B.Sc/BCA with 60%	UET
M.Sc. Green Chemistry	2 Yrs	B.Sc with 60%	Direct
M.Sc. Mathematics & Computing	2 Yrs	B.Sc with 60%	Direct
M.Sc. Physics	2 Yrs	B.Sc with 60%	Direct

## M.Tech in Intelligent System & Robotics

Increasingly, living on earth means living with robots and intelligent systems; sharing the planet with ever more intelligent machines that perform tasks from the mundane like lawn mower that cuts grass, to the highly specialized like robot-doctors that do surgery. Robotics is a rapidly developing discipline that combines long-established areas of electronics and mechanical engineering with novel approaches in computing and the life sciences. Intelligent systems and easy reconfiguration have made Robotics more applicable and cost effective in industries. Intelligent systems use ideas and get inspiration from natural systems and build on both established and novel techniques from machine learning, artificial intelligence and mathematical optimization. This autonomous M.Tech. in Advanced Information Technology with specialization in Intelligent Systems & Robotics is designed to create professionals with strong research background. Considering the human resource requirement in the Robotics, Automation and Product development based Software and Knowledge based Industry in India, the course has been designed to equip students with necessary hardware and software skills. The program strongly focuses on theoretical as well Practical aspects of System Design for hardcore industrial applications and also providing ample scope for students to pursue research in different domains of Robotics and Future Intelligent Systems.

## M.Tech in Automotive Engineering & e-Manufacturing

India has emerged as the automobile manufacturing and automotive service hub of the world in last two decades. India is the fourth largest exporter of automobiles in the world and has surpassed China in the Asian market. Indian automobile companies have expanded their operation across the globe and at the same time owing to India's growing economic prowess automobile MNCs have shifted or started their design and manufacturing operations to India. By 2009 India has emerged as the largest manufacturer of small cars in the world. The paradigm shift taking place in the auto industry has created opportunities to visualize and materialize innovative designs to address the challenges in the 21<sup>st</sup> century. This program has been designed to provide students with necessary foundation in automobile engineering to pursue research and to explore new horizons.



### **M.Tech Artificial Intelligence**

M. Tech course in Artificial Intelligence at Gyan Vihar University is originally designed to expose students with an undergraduate degree in Computer Science to a systematic study of advanced problem solving techniques and to the latest research problems at the interface between humans and computers.

Artificial Intelligence is the science and engineering of making intelligent machines, especially intelligent computer programs. It is related to the similar task of using computers to understand human intelligence, but AI does not have to confine itself to methods that are biologically observable.

Expansion in the field and related research technologies has led young enthusiasts to find a sophisticated career in artificial intelligence. Job options range from managerial to technical. Aspiring computer virtuosos can dream of a stable career as statistical analysts, programmers, language experts, engineers and managers. Those armed with an associate degree can expect to find positions as engineering technicians while bachelor's and master's degree holders may opt to work in the position of robotics engineers, and can be involved in designing software and hardware, besides many other things. Doctorates can expect to make it big as professors and researchers. One can find employment with companies concerned with technological research and development, aerospace programs, weapon facilities and even government sectors.

### **M.Tech Digital & Wireless Communication**

Specialization in the field of Digital Communication will provide the candidates with a wide variety of opportunities, both in the Industry as well as in the R & D sector. They can work in areas dealing with Satellite Communications, Mobile and Wireless Communications, Optical Fiber Communications, Microwave and Antenna designs, Real time and Embedded System designs, Advanced Digital Signal processing and Image processing fields etc.

### **M.Tech in Software Engineering**

M.Tech. (SE) is a two year program in which a student gets masters degree. Students will be able to analyze, architect, design, plan, develop, and deploy complex software systems, applying state-of-the-art approaches to software engineering. They will also be able to apply diverse software engineering methodologies. First three semesters will carry on the theoretical and practical classes and preliminary work leading to the project work. The last semester will be devoted completely to the research work; collaborative work may also be undertaken.

### **M.Tech VLSI Engineering**

M.Tech is a two year program. VLSI Engineering provides improved solutions for high speed networking, high performance computers, and special applications of integrated circuits, requiring the use of multiple disciplines. There is an urgent need to absorb and assimilate the latest development in the VLSI design field. The course is offered by the department of Electronics and Communication by highly qualified and experienced teaching faculty. Projects are related to VLSI field, CMOS, VLSI Design.

### **M.Tech Energy Engineering**

The university offers two years master's degree in energy engineering. Energy being the most demanding sector in today's world, this topic is taken as master level program. As that of Europe, India is also focusing on this sector. We know that the world is going to finish its fossil fuel resources within a few years of time. So, this branch is made to conserve the energy resources as well as the green house gases are also decreased by the help of this engineering branch.

### **M.Tech Manufacturing & Industrial Engineering**

M.Tech in manufacturing engineering provides the theoretical background required in the industry. The program comprises of topic like advance manufacturing which gives the explanation of theoretical, present manufacturing process occurring in the production industries. Metal forming gives the basic process occurring behind the manufacturing process like metal drawing, casting, forming etc. CAD/CAM/CIM gives the computer aided application of the production and management process.

### **M.Tech Power System**

M.Tech in Power System is a two year program. The developing complex power systems have necessitated the requirement of highly skilled persons not only for the operations of the power systems but also for design, development and manufacturing the required machinery / systems / instruments / accessories etc. The program has been designed accordingly. One elective subject in first three semesters, besides the core subjects and working only on chosen project during the fourth semester gives flexibility to the students to gain more knowledge in chosen area of interest. The program is designed as per the present need of the industry.

### **M.Tech in Computer Science**

M.Tech in Computer Science engineering is a two year program. The M.Tech (CSE) degree program offers students the necessary background to pursue research or a career in the industry. This degree focused on advanced subjects like Software System Design, Advanced Data Structures, High Performance Networks, Bio-Informatics Computing, Distributed Operating Systems, Information System Security, Case Study Designing, Soft Computing, Wireless & Mobile Computing etc. The excellent results and the placements in reputed companies have given added momentum to the program.

### **M.Tech in Computer Science & Engineering (Part-Time)**

M. Tech in Computer Science & Engineering Part-time program is a three year program, mainly designed for those who are interested in doing part time studies along with their job.

### **M.Tech Information Communication**

Masters in Information Communication allow students to specialize in chosen areas of interest and prepare them for specialized jobs in the industry. Basically this course is an interaction of Electronics & Communication and IT subjects. In the first semester, the students learn core concepts and get to do extensive laboratory work, while in the later semesters the students enroll for advanced courses and work on various projects to gain expertise in chosen areas of interest.





## Master of Computer Applications

MCA is a three year professional Master's Degree Program that can be taken up after obtaining a Bachelor's Degree. Since the course coverage of MCA is comprehensive, a qualified MCA can easily fit into any kind of software environment and also in IT industry. In this age of IT revolution, the MCA professionals can look forward to a bright future. The course is designed to meet the growing demand for qualified professionals in the field of Computer Software and Information Technology.

## M.Sc. Mathematics & Computing

M.Sc in Mathematics & Computing will be of four semester (Two Year) program. This two year program offers an exciting opportunity to students who are interested in Mathematics and who wish to pursue course for teaching, research and industry. The program offers computer oriented courses and extensive laboratory training in Mathematics. As part of an effort to learn new mathematical techniques that can be used to address regional industrial problems. Programming in C, C++, JAVA, SPSS Software & MAT Lab will be used as the main tools to deal with most of the computational subject matter of the M.Sc. courses being offered. These courses will include Algebra, Factual Analysis, Advanced Numerical Analysis, Mathematical Theory of Statistics, Operations - Research and Mechanics.

## M.Sc. Physics

This programme will be of four semesters. The first three semesters cover the fundamentals of the subject. The courses taken by all the students include Classical Mechanics, Quantum Mechanics (2), Mathematical Methods (2), Nuclear Physics, Introductory Particle Physics, Solid State Physics, Laser Physics, Computer Applications, Electronics, Special Relativity and Electromagnetism, Electrodynamics, Statistical Mechanics besides laboratory courses in Electronics, Solid State Physics, Digital Electronics, Lasers, Microwaves, Modern Physics and Nuclear Physics. There is a strong emphasis on problem solving and learning experimental techniques.

## M. Sc. Green Chemistry

Students enrolled in this program first, have to qualify for the University Entrance Test (UET) for M.Sc. in Green Chemistry. The department offers several core (compulsory) courses and many electives. The course materials are so designed such as not only to facilitate and encourage discussion and to also expose them to new and industrial aspect of present day research. The program involves a 2 years (4 semesters) course work with the last semester being mainly devoted to training in industry and a research project carried out in any of the research groups of the students' choice. The course is designed as a comprehensive resource of education materials including laboratory exercises, lecture materials, course syllabi and multimedia content that illustrate chemical concepts important for green chemistry. Each entry includes a description of the item and is searchable by a variety of parameters, including chemistry concepts, laboratory techniques, green chemistry principles, and target audience and requirement of today.

## Seminars

We at School of Engineering & Technology, enhance the student's capability of thinking out of the box, improve their technical, analytical, interpersonal & presentation skills & develop their self confidence by the means of seminars. It also provides the students with an insight into latest technology and, thereby keeping the students updated according to the industrial requirement. It also gives deeper understanding of various technical issues and help to interact with various technocrats. By the means of seminars, we provide the students a platform to express and improve their technical skills & personality as well as help the students to shed off their stage fear and make them capable of addressing the masses in an effective manner. GVSET organizes lots of seminars in IT, MECHANICAL, COMPUTER SCIENCE, ELECTRONICS & COMMUNICATION, CIVIL, & ELECTRICAL Engineering.

## Industrial Training Programs

Industrial visits are quite frequently organized to provide practical exposure to the students of the industry. The industrial training program will help in understanding the application of theoretical knowledge at the shop floor of the industry.

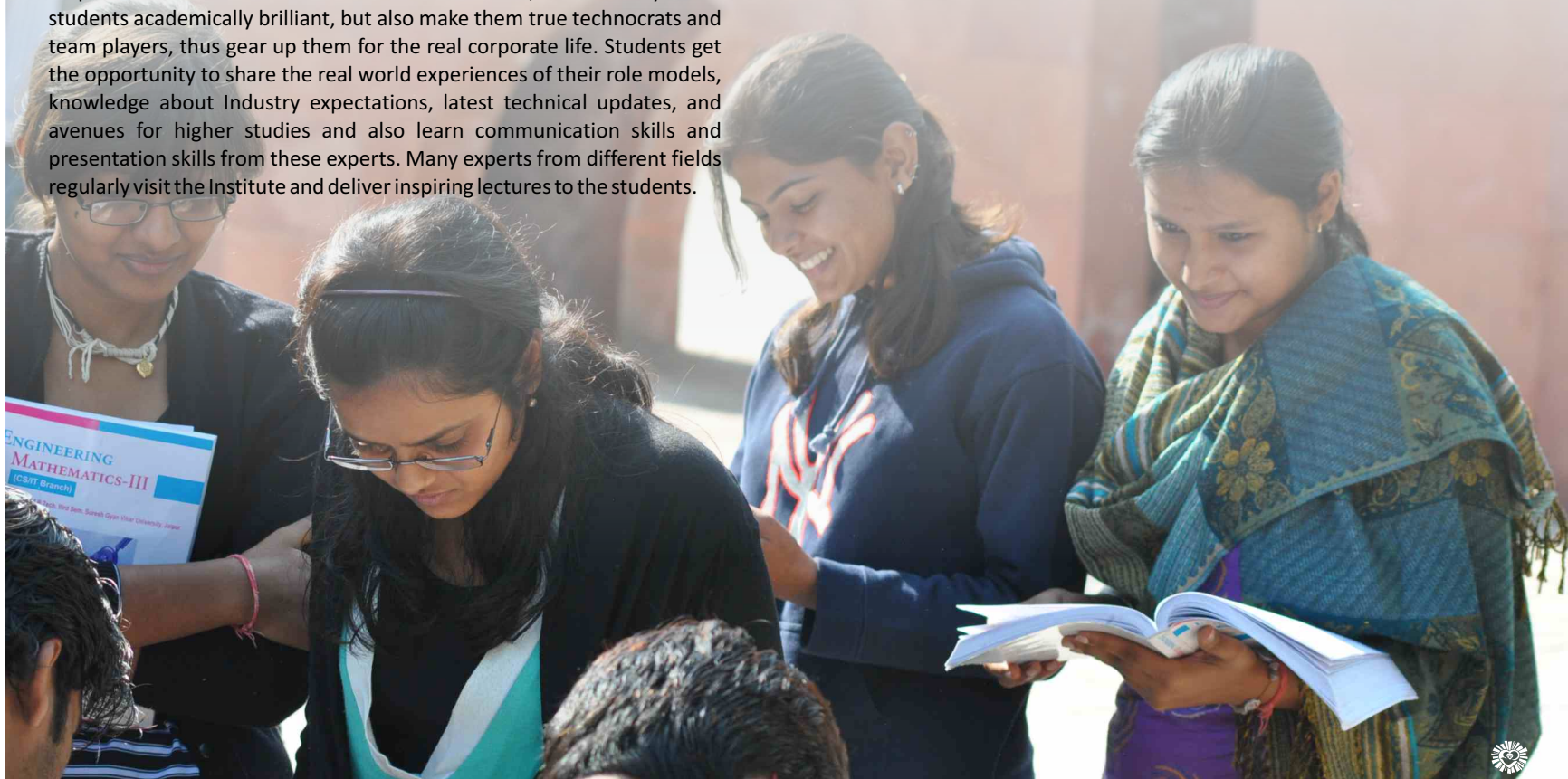
## Professional Guest Lectures

Guest lectures by industry professionals and eminent scholars are a regular feature of the program that provides good exposure and feel of the corporate environment to the students. At GVSET, we not only make students academically brilliant, but also make them true technocrats and team players, thus gear up them for the real corporate life. Students get the opportunity to share the real world experiences of their role models, knowledge about Industry expectations, latest technical updates, and avenues for higher studies and also learn communication skills and presentation skills from these experts. Many experts from different fields regularly visit the Institute and deliver inspiring lectures to the students.

## Placements

The liaison & symbiotic relationships developed with leading business organizations, MNCs & industries over the years by the Engineering Department is all leveraged for the final placement, resulting in students getting at least 8-10 interview opportunities and out of which he/she gets 3-4 job opportunities to choose from. Exclusive personality development sessions, soft skill development programs, Mock interviews, Panel discussion, Group Discussion, Interaction with Industry Experts, are organized to prepare our students for high-end placements.

Our 2011 batch of Engineering students has been already placed in various top notch companies





# GET ADMIT INTO FIRST **NBA** **ACCREDITED** Engineering college of Jaipur

## Parameters

For NBA accreditation an institution has to undergo a very tough ordeal with stringent parameters and strict marking scheme. Organizations with exemplary performance are granted with NBA Accreditation.

## Gyan Vihar is now NBA accredited

Gyan Vihar has accomplished a remarkable feat equaled by none, as it is the first engineering college of the state running three NBA Accredited programs i.e. B.Tech in Computer Science and Engineering, Mechanical Engineering and Electronic & Communication Engineering.

## What is NBA ?

NBA is highest quality certification by the premier statutory body constituted by MHRD for quality assurance in technical institutions. National board for accreditation is a part of AICTE to bring the systematic transformation of technical education sector into a dynamic, demand driven, quality conscious, efficient and forward looking system. It envisages that well performing engineering colleges will be developed into excellent institution of world-class standards.

## How do They Evaluate?

Normally an elite panel of visiting team consisting Vice Chancellors, Directors and Professors of IITs or NITs, stay in the campus for three days, they probe extensively into every aspect of the organization to find out strengths and weaknesses of the programs. The team that visited Gyan Vihar was headed by a Vice Chancellor along with Professors from IIT Bombay, IIT Kharagpur, IIT Kanpur, NIT Warangal and NIT Bhopal.

## Accreditation Parameters

- A. Organization and Governance
- B. Financial Resources
- C. Physical Resources
- D. Human Resources
- E. Student Resources
- F. Teaching Learning Process
- G. Supplementary Process
- H. R&D

## Marks

- 80
- 70
- 50
- 200
- 100
- 350
- 50
- 100







## *Looking Forward : Gyan Vihar School of Hotel Management*

### **Hotel Management - “World Of Opportunities”**

The Hotel Management & Tourism sector is the world's fastest growing industry endeavor. This sector employs millions of people ranging from budget Hotel to luxury liners. Career opportunities are plenty for well-trained & quality professionals. To fulfill the demand of the hospitality industry, the school of hotel management entails training in quality education, practical training to enable students to emerge as accomplished professionals. Students having aptitude in creativity and innovation with good communication, fluency in English and having motto of “hard work” will succeed in hotel management courses in the hotel industry and the mission of the school of Hotel Management is to mould young men and women into competent and responsible professionals with employable skills, pleasing personalities with requisite experience, becoming leaders in the hospitality industry. Keeping the view the huge demand of skilled human resource and world of opportunities for young students, Gyan Vihar School of Hotel Management offers industry driven, industry centric, career oriented programs both Graduate and Post graduate in Hotel Management.



## Programs offered

Programs	Duration	Eligibility Criteria
MBA in Hospitality Administration	2 Years	Graduation with 55% (MAT/CAT)
BHMCT	4 Years	10+2 with 50%
BHMTT	3 Years	10+2 with 50%
Diploma in Food Production	1.5 Years	10+2 with 50%

### MBA - Hospitality & Administration (MBA - H&A)

Tourism & Hotel Management education have become prime concern in the world as the number of travelers grow and markets become more sophisticated in most countries. The World Travel & Tourism Council (WTTC) estimates a boost in the total amount of travel & tourism activity in the next decade. If India is to realize its enormous potential in tourism & hospitality sector, it must provide world-class products matched with technically qualified workforce. To fulfill the requirement of hospitality Sector Suresh Gyan Vihar University has started with the new courses in the Department of Hospitality - MBA in Hospitality & Administration, along with the regular course of BHMCT. MBA -H&A course enhances professional attitude and cultural ethics of corporate world. It inculcates and sharpens managerial capabilities to become a technocrat. Challenges of international competition can be met only by nurturing a global mind set and futuristic approach to work.

### Specialization in MBA- H&A

Keeping the above context in mind new course will help to meet the differences in the education as well as practical exposure. It includes subjects which are perfect blend of management in the hospitality industry viz. Behaviourial Management, Hospitality Marketing, Introduction to Hospitality and Tourism, Fundamentals of accounting for hospitality industry, Front office operations, Food and beverages, control and management, Hospitality human resource management, International and domestic tourism, Accommodation operations and management, Food production and management, Management of travel agencies and tour operations., Customer relationship management, Emerging trends in the Hospitality industry, Legal and regulatory structure of Hospitality industry, Event Management , Tourism geography and cross cultural international management, Environmental issues and hospitality industry, Total Quality Management. Electives courses- Cruise liners/Eco or green tourism/Airlines management/Services Management.

## Job Prospects and Career Options

Lots of lucrative and interesting openings are there for hotel management graduates and Post Graduates in various fields like: Hotel & Restaurant Management, Airline Catering and Cabin Services, Club Management, Cruise Ship Hotel Management, Hospital Administration and Catering, Hotel and Tourism Associations, Forest Lodges, Guest Houses, Institutional Management (supervising canteens in college, schools, factories, company guest houses etc.), Catering departments of railways, banks, armed forces, shipping companies. Hotel and catering institutes and Self employment.

### Bachelor in Hotel Management Travel & Tourism (BHMTT)

Buoyant by the overwhelming response of students, Industry demand and keeping in view that the Hospitality Travel and Tourism Industry, which is directly linked to India's economic prosperity & growth, Gyan Vihar School of Hotel Management has started a 3 years Bachelor Degree Course in Hotel Management Travel & Tourism (BHMTT) from the ensuing academic session 2011-12. The course is approved by University Grant Commission. The course will provide in-depth academic as well as practical exposure for the students to acquire the required knowledge and skills in all operational areas of Hotels, Travel Agencies and Tourism Organizations. The integral part of the 3 Years curriculum is the 20 weeks Industrial Exposure Training.

## Job Prospects and Career Options

BHMTT graduates can look forward to be a General Manager, Resident Manager, Food & Beverage Manager, Front Office Manager, Executive House Keeping, or an Executive Chef in a star hotel or successfully work in a senior position in a Travel/Tourism organization. Hospitality includes all kinds of tourism, travel, hotels, resorts & catering etc. and is one of the largest business activity and employment generator in the world. Economy of number of countries is largely dependent on Tourism.





# ज्ञान विहार यूनिवर्स के छात्रों द्वारा दुनिया की सबसे बजनी रोटी

## Bachelor in Hotel Management & Catering Technology (BHMCT)

The Pride of SGVU, School of Hotel Management has made itself an art meant for its Hospitality. The thrust is on building an ideal resource pool of hospitality experts. The school provides world class learning experience. The school has a 5 star hotel ambience to ensure that all the students are trained at that level. The school takes great pride in conducting its third All India Hospitality Competition, such events would be an opening ground for students to learn the intricacies of the hospitality profession. Along with practical training students are also taught 4 major and 3 minor subjects of theory. Subjects covered in BHMCT are Food Production, Food & Beverage Services, Front Office Operations, Accommodation Operations, Computer Application Nutrition & Hygiene and Personality Development & French Language.

## FOOD PRODUCTION

Food & Beverage Production is the core area of the Hospitality industry. Therefore, the curriculum is planned to give an overall exposure in that field. Food Production is a subject for four years with theory and practical inputs. Major aspect of the Hotel industry is food as it is the true reflection of hospitality. Food Production labs are well equipped and designed to put in good and advanced training to students making them efficient food makers of the industry. The subject is structured in four modules taught in four years - Basic Training, Intermediate Training, Quantity food Training and Advanced Training covers basic food preparation and bulk preparation in Regional, National and International cuisines. The department of Food & Beverage Production is instrumental in organizing various food festivals, formal dinners, charity events and Annual Day. The department conducts modules for housewives and professionals in Bakery and Cookery.

## LABS IN FOOD PRODUCTION Bakery & Confectionery

There is a separate department with sophisticated equipment installed to provide training of basic Bakery and confectionery products such as sponges, pies, cookies, biscuits, pudding, soufflé, mousse, ice cream, different types of cake like wedding, chocolate, christmas and plum cakes, tarts, breads, pastries, cake icing, sugar and chocolate works teaching by efficient Chefs.

## Quantity Food Kitchen

This lab is oriented to sow seed of Indian regional North, South, East & West Indian cuisines, Indian fest food, Indian traditional food from different region of country, bulk cooking and catering.

## Advanced Training Kitchen

Hotel industry caters to the people throughout the world. So, in advance training, kitchen students are imparted practical knowledge of global cuisine, making them master of culinary.

## Basic Training Kitchen

This lab is oriented to sow seeds of basic items of kitchen like stalk making, vegetables cutting, soup making and knowledge of cooking methods, basic spice and herbs, seasoning and consistency.

## Demonstration Kitchen

This kitchen is oriented to sow seeds of demonstration of fusion, regional and continental food by corporate chef, executive chef and chefs.

## Food & Beverage Service

Food and Beverage Service is one of the core operational subject in the BHMCT curriculum. Here the students are taught about the service and managerial aspects of operating the various food beverage outlets. Restaurants are key to hotel industry.



A 48 cover restaurant is equipped particularly to impart the practical knowledge of beverage including liquor, wines and beers, tobacco, merchandising and banquet business. F & B Management deals with all aspects of design, store and controls in a Hotel.

### FRONT OFFICE

The Front Office is the most visible department in a Hotel. From the time a guest makes a reservation and arrives at a hotel, up to the time he or she departs, the front office personnel plays a central role in meeting the guests requirement. The Front office is the main reception area & the students are trained to deal with various operations of the same. The proper courtesy and etiquettes are must for the front office people along with the knowledge of various major spoken languages and customs throughout the world.

### ACCOMMODATION OPERATION

One of the other major area in a hotel is the Accommodation Operation , as it is basically the lodging and housing, that one looks for, away from home. Housekeeping, care and maintenance of the hotel and efficient servicing and control of guest rooms is the key area of responsibility. It contains training of fully automated laundry & guestrooms. In-depth study of interior decoration of the guest room is also a part of Accommodation Operation.

### JOB PROSPECTS

India is always the destination for the travel lovers and entrepreneurs around the world because of its rich heritage and varied culture. This has paved the way for hotel and catering industry. Today hotel & catering industry is the largest earning industry in the world. Career opportunities are plenty for qualified and well trained young men and women in Hotel, Restaurant, Travel agencies, & National & International Tourist Organizations. According to a survey at the end of the 2013, industry needs 2 Lac skilled graduates. One can pursue job in the field as front officer, chef, house keeper, baker, confectioner etc. Some other fascinating areas like airline, cruise liner, travel agencies and other hospitality areas are also open for Hotelier.

### FACILITIES

The department has full-fledged work station for 120 students for practical culinary preparations and the department organizes Regional, National & International Food festivals, All India Annual Chef Competition, SGVU Quest, incorporating seven areas of competition- culinary skill, food and beverage quiz, menu card, flower arrangement, cocktail and non- edible display product.

Academics Coordinated with live projects and activities reinforcing the knowledge and skill of students i.e.:- **Food Glamour, Education Tour, Theme Parties, Sports and Chef Competition.**

### Achievements by students of School of Hotel Management.

#### LIMCA BOOK OF RECORDS

- (A) Biggest Roti making. ( 160 kg.)
- (B) Longest Rangoli making. ( 3 km.)
- (C) Longest Pav Bread ( 3100 cms.)

#### Our proud alumni are placed in various top notch Hospitality companies



### MBA - GLOBAL BUSINESS

This program provides a comprehensive coverage incorporating all the important areas and disciplines relevant to the international business activities i.e. International Financial Management, Comprehensive International Economics, International Marketing Management, Foreign Trade Policies, International Forex, & Risk Management, Foreign Language (French), International Business Procedures & Documentation, International Logistics & Supply Chain Management, Contemporary issues in International HR etc. MBA (Global Business) postgraduates are absorbed by international marketing departments of companies engaged in export business.

### MBA- E-Governance and ERP

All the governments are investing in E-Governance, which is generally based on ERP systems. Large companies are also investing in ERP systems. The International certification of technology like SAP, are included in the syllabi and the students can take up these training programme. This Programme helps in Implementation of enterprise level quality models, design / implementation of software development processes, testing and technical documentation. The grade obtained in this certification will be included in the final evaluation of MBA. As the programme relates to the latest professional practices and the IT work place management students are best suited for leading and managing IT industries.

### Seminars

Seminars enhance the student's capability of out of the box thinking which provide an edge over others by developing their self confidence and presentation skills. This also gives deeper understanding of various economic & business issues and help to interact with the various stakeholders of corporate sectors.

### Industrial Visit

Industrial visits are quite frequently organized to provide practical exposure of the students to the industry. The industrial training program will help in understanding the application of theoretical knowledge at the shop floor of the industry.

### Operational Workouts(OW)

Operational Workout is an integral part of all courses in ISBM. OW equips the students to manage stress, improves communication skills and inculcates leadership quality in them.

### Professional Guest Lectures

Guest lectures by industry professionals and eminent scholars are a regular feature of the program that provides good exposure and feel of the corporate environment to the students. At ISBM, we not only make students academically brilliant, but also make them true leaders and team players, thus gear up them for the real corporate life. Students get the opportunity to share the real world experiences of their role models, knowledge about Industry expectations, latest technical updates, and avenues for higher studies and also learn communication skills and presentation skills from these experts. Many experts from different fields regularly visit the Institute and deliver inspiring lectures to the students.

### SCHOLARSHIPS

Suresh Gyan Vihar University provides various scholarship to meritorious and financially weaker students.

The scholarships will provide:

100% Freeships

50% Freeships

for more details visit [www.gyanvihar.org](http://www.gyanvihar.org).



### Student Community Forum

University has established 14 students Community Forums. The Community Forum is a cluster of student driven Communities that may cater to diverse needs of the students with respect to spending their quality time on campus in a productive manner and thus improving the overall quality of life at campus for the students.

The students has an option to join community forum like:

GREEN (Environment Club)

HYPHEN (Literary Club)

RHYTHM(Art Club)

CLC (Entrepreneurship Club)

AXIOM (Creative cooking Club)

SPORTY (Sports Club)

i-TECH (INFORMATION TECHNOLOGY

SEEDS (Socio Economic & Education Development Society Club)

JACK (Creative Club)

SAFE (Transport Club)

WELLNESS(Fitness Club)

AXIS (Marketing Club)

CRONOUS (Soft Skills Development)

INNOVATIONS(Robotics Club)

### Training & Placement Activities:

The university is ranked number 1 in terms of placements among the private universities of the country by DNA 2011. The liaison & symbiotic relationships developed with leading business organizations, MNC's & industries over the years by ISBM is all leveraged for the final placement, resulting in students getting at least 8-10 interview opportunities, and out of which he/she gets 3-4 job opportunities to choose from. Exclusive personality development sessions, soft skill development programs, Mock interviews, Panel discussion Group Discussion, Interaction with Industry Experts, are organized to prepare our students for high-end placements.



### Our students have been placed in various companies



### Online Admission Process:

In order to have more systematic and transparent system of admissions, the University has adopted the "Online Admission System" which inevitably avoids all delays in the process of admissions. Students can fill the online admission forms by paying Rs. 1100/- cash at University finance department or by DD drawn in favour of Suresh Gyan Vihar University, Jaipur or by online payment at <http://www.gyanvihar.org>.

*"The University welcomes you to the world of excellent education and a great career"*

Gyan Vihar University, Mahal, Jagatpura, Jaipur-302017, Rajasthan (India),  
website - [www.gyanvihar.org](http://www.gyanvihar.org) e-mail:- [admission@gyanvihar.org](mailto:admission@gyanvihar.org), Tel. No:- 0141-6450389-90,  
For Admission Query Cont No. 09413345444, 09414033422, 09413341196



MBA	Human Resource	Marketing	BBA
Global Business	B.A	Banking	Finance
Dual specialization	Actuarial Science	Capital Market	Corporate Secretaryship
B.Sc	Entrepreneurship and Leadership	B-Com	E-Governance & ERP

Leader in quality education



GYAN VIHAR  
I S B M



**The University**  
The University is established by the state government of Rajasthan, vide Suresh Gyan Vihar University, Jaipur, Act no 16, 2008.

The University is recognized under section 2(f) of the UGC Act, 1956 and has been empowered to award degrees under section 22 of the UGC Act. The University offers a wide range of programs in the areas of Management, Engineering, Pharmacy, Bio-sciences, Hotel Management and Education. Around 6000 students are pursuing education in various programs offered by the university.

The university is ranked 3rd among private universities of the country by Financial Express 2009. A Study conducted by DNA has placed Gyan Vihar on the Top amongst private universities across the country.



**Picturesque Campus**

The University is situated on a sprawling and picturesque campus at Mahal, Jagatpura, Jaipur. A serene atmosphere bereft of any noise and air pollution rejuvenates the spirit of learning and the first step into the campus fills one with an all pervading ambience of academic excellence. In terms of infrastructure, campus and human resources Gyan Vihar is amongst one of the best institutions in India. Our infrastructure is dynamic as we are constantly striving to maintain pace with the latest developments.

**Gyan Vihar ISBM**

ISBM, an independent department of Suresh Gyan Vihar University, is at the forefront of management education offering multifarious specializations. The design of course and content of the ISBM programs embrace a range of relevant theory firmly linked to the practical world of management, enabling to develop analytical skills to professional level. ISBM's courses provide a sound understanding of managerial theory and practice, and offers scope to specialize in the chosen areas of interest. Indeed, ISBM focuses on result oriented teaching based on innovative assignments, case studies, operation workouts and live projects, which are augmented with the latest e-learning technology. ISBM motivates students to be self dependent, aspire them to become leaders rather than followers The programs of ISBM also encompass grooming of personal skills, effective communication, team-leadership, analytical and presentation skills

**Unique Features:**

- \* All Programs are approved by UGC .
  - \* Top ranking business school in Rajasthan.
  - \* Faculty with brilliant Academic Credentials and rich Corporate/Industry experience.
  - \* State-of-the-art world-class infrastructure.
  - \* Most modern computer labs having 24x7 connectivity through 1 GBPS Wi-Fi link.
  - \* Ultra modern Gymnasium and fully equipped sports complex.
- \* Excellent hostel facility-separate for boys and girls (with 1000 capacity).
  - \* 14 social clubs for overall personality development & infusing creativity.
  - \* International industrial visit to provide global exposure.
  - \* Strong linkages with industry and business.
  - \* Eminent corporate leaders in academic bodies.

**Programs offered**

Programs	Qualification	Selection Criteria (Entrance)
BBA	10+2 with 55%	Personal Interview
BBA (Actuarial Science, Banking, Capital Market)	10+2 with 55%	Personal Interview
B-Com (Corporate Secretary ship)	10+2 with 55%	Personal Interview
MBA (Dual Specialization)	GRADUATION with 55%	MAT/CAT/
MBA(HR)	GRADUATION with 55%	MAT/CAT
MBA(FINANCE)	GRADUATION with 55%	MAT/CAT
MBA(MARKETING)	GRADUATION with 55%	MAT/CAT
MBA (E-Governance & ERP )	GRADUATION with 50%	MAT/CAT
MBA (Global Business)	GRADUATION with 55%	MAT/CAT
MBA (Entrepreneurship & Leadership)	GRADUATION with 55%	MAT/CAT

**Bachelor in Business Administration**

BBA programs is puerely professional program which helps the students to groom them as per the corporate requirements. Students can get the basic knowledge of management and pursue their higher degree in Management with specialization in Marketing, Finance and HR.

**BBA - Actuarial sciences**

With the rising insurance sector, there is a need of professionals in actuarial science. The job involves preparing insurance premium calculations. A person with strong mathematical background can easily rise in this profession.

**BBA - Banking**

With the rising modern banking, there is a need of professionals in this sector. BBA Banking will equip the student with all latest knowledge about modern tools and techniques of banking. Thus a BBA Banking will be preferred over other graduates for a banking job.



**BBA - Capital Markets**

Capital market and commodities markets are creating employment opportunities - both self employment and as professionals for giving investment advice. Thus there is a need of comprehensive training in this sector. A student can also undertake studie of NSE, BSE and SEBI certificates along with this course. The course contents will cover the latest knowledge about business practices in these sectors.

**B.Com(Corporate Secretary ship)**

B.Com(Corporate Secretaryship) prepares students as professional in the field of corporate secretarial work, office management, and related careers. The student can opt for finance, accounting, or other careers after doing this course. There are regular soft-skills trainings (in every semester) and two practical training (summer internship training during B.Com Programme to be taken under CA/CS in some company) in the programme, which sets it apar from other B.Com programmes.With the increasing corporate sector, there is a huge demand of company secretary and other staff well versed in corporate laws and corporate practices.

**Masters in Business Administration - MBA (Dual Specialization)**

The 2 years full time masters programme focuses on developing practical skills and business understanding along with academic knowledge, personality development and the analytical skills. This programme empowers the students to take on the challenges of corporate world nurturing them into confident individuals because of solid foundation in Marketing, Finance & Human resource fundamentals and functions.



**MBA - Marketing**

Growing service industry, more focus on customer satisfaction, rise of BPO sector and fast developing Retail sector has increased the demand of Management professionals with specialization in Marketing. Candidates with MBA Marketing degree are sure to enjoy excellent career growth in this highly competitive world. Marketing manager, market research analyst, brand manager and new product manager are some of the employment opportunities available to MBA marketing professionals.

**MBA Finance**

This Program aims at providing a comprehensive coverage of all the important functional areas and disciplines relevant to financial activities which facilitate Managerial Decision Making. Equal emphasis has also been placed on the quantitative as well as analytical approach to the study of financial management. MBA Finance opens up a wide range of job opportunities. Be it an investment bank, a Corporation or a Securities Firm or a Consulting Industry, MBA Finance professionals are much in demand. The stock markets and all financial institutions also offer a range of job opportunities for MBA Finance specialists.

**MBA - Human Resources Management:**

This programme is designed to impart the management skills required to function effectively in corporate sectors. The tailor-made programme includes practical sessions, whereby, students are required to present & defend cases on various potential HR issues in an organization. A career in MBA -HR is a challenging and exciting. It is a fast-growing field with multiple lucrative opportunities. It is expected, that the number of Human Resources (HR) jobs will rapidly increase in the near future.



**MBA Entrepreneurship and Leadership**

This programme is designed to create entrepreneurs and leaders for tomorrow. The programme has various components, which enable development of entrepreneurial capabilities. Some of the special

- components of the programme are as under :-
- ★ Mentoring by entrepreneurs and industrialists
  - ★ Business Plan formulation and presentation
  - ★ Visits to exhibitions and trade shows
  - ★ Participation in Entrepreneurial training programmes and entrepreneur interactions by TIE, NEN and other associations
  - ★ Participation in entrepreneurial forums
  - ★ During the last semester of the programme, the participants will spend some time with entrepreneurs learning from them the practical aspects of entrepreneurship and will prepare business plans for their own businesses.



## DEPARTMENT OF MEDICINAL CHEMISTRY & DRUG DISCOVERY

The department aim is to discover new chemical entities and optimize the drug technology by designing new drug and studies QSAR of new chemical entities. The department works in the field of Medicinal Chemistry, Drug Synthesis, method development of new drugs and herbal technology. The thrust areas of research are anti-diabetic, anti-cancer, anti-viral, cardiovascular disorders, and CNS acting drugs.

The department has been actively involved in imparting a relevant knowledge base and technical skills in the field of pharmaceutical chemistry offering engrossing research activities in the field of industrial research, development of eco-friendly and green chemistry methodologies and fundamental academic research on the following topics. Synthetic: Anti-retro virus, anti-neoplastic, hypoglycemic, hypolipidemic and other CVS related diseases, anti-malarial, anti-helminthic, anti-fungals, chemotherapeutics, parkinson's disease etc.

## DEPARTMENT OF PHARMACOGNOSY AND HERBAL DRUG TECHNOLOGY

The department was established with the mission to disseminate authentic scientific pharmacognostic and updated pharmacological screening knowledge and information about all aspects of Natural drug and Phytopharmaceuticals, to pharmacy and health care education institutes, herbal drug agencies, R&D units, complementary and alternative medicine and practitioners and community pharmacists. To cope-up with the global industrial as well as research demand, the department guides the students on areas of Herbal Drug formulation, testing and distribution of medicines. The department also guides about the regulatory standards on several quality related issues, which include Herbal product formulation, their stability, packaging, storage and bioequivalence.

## DEPARTMENT OF PHARMACEUTICAL BIOTECHNOLOGY

Pharmaceutical Biotechnology is concerned with research of drugs at the molecular level. This includes genetic engineering, gene expression, gene regulation, r-DNA technology, nanobiotechnology, isolation, cultivation and use of micro-organisms for the discovery and production of antibiotics and other drugs, tissue culture, fermentation, enzymology, vaccine technology, pharmacogenomics, process validation, bioinformatics and biostatistics in drug discovery. In the current scenario pharmaceutical industries concentrate in the field of pharmaceutical biotechnology because of its novel approaches. Biotechnology refers to harnessing the properties of living organism to develop and manufacture products that benefit human life. The major thrust area: Biomaterials for tissue engineering and re engineering blood vessels, ligaments and skin. Release devices for the delivery of drugs, peptide and proteins, Microbes to clean up contaminated soil and groundwater, Tissue Engineering, Edible vaccines.

## INDUSTRIAL TRAINING

In 2nd semester an industrial visit is arranged for PG students which help them in understanding the role of quality assurance in pharmaceutical industries.

PG students can complete their dissertation work in industries in 3rd and 4th semester(optionally) which familiarizes them about industrial atmosphere and working, which help them in placement.

## CO-CURRICULAR ACTIVITIES

Besides the research oriented curriculum the students are encouraged to participate in co-curricular activities. The department organizes the Pharma Gyan and Pharma Prakash like international symposiums.

The students also visit the leading pharmaceutical and clinical research companies to update their knowledge in recent trends in pharmaceutical research as part of industrial training. PG & doctoral scholars are also participating in various workshops to get training in development of their skills in handling equipments like autoanalyzer, HPLC, HPTLC, UV-Spectrophotometre, ELISA Reader etc.

## RESEARCH ACTIVITIES

Excellent research profile of the department is quite evident from the various international national publications and presentation in professional conferences and workshop. This is attributed to

- Encouraging & supportive management and their policy of excellence in academics through research orientation.
- Well equipped infrastructure.
- Good library facility with access to online journals.
- Well qualified staff with exposure to national & international environment.

## STUDENT COMMUNITY FORUM

University has established 14 students Community Forums. The Community Forum is a cluster of student driven Communities that may cater to diverse needs of the students with respect to spending their quality time on campus in a productive manner and thus improving the overall quality of life at campus for the students.

The students has an option to join community forum like:

GREEN(Environment Club)	JACK(Creative Club)
HYPHAN(Literary Club)	SAFE(Transport Club)
RHYTHM(Art Club)	WELLNESS(Fitness Club)
CLC(Entrepreneurship Club)	AXIS(Marketing Club)
AXIOM(Creative cooking Club)	CRONOUS(Soft Skills development)
SPORTY(Sports Club)	INNOVATIONS(Robotics Club)
i-TECH(Information Technology Club)	
SEEDS(Socio Economic & Education Development Society Club)	

for more details read Student Community visit [www.gyanvihar.org](http://www.gyanvihar.org)

## PLACEMENTS

Drug discovery is now a billion dollar business with enormous clinical, technical and strategic contributions to modern therapeutics. Many pharmaceutical researchers in industry choose a scientific career ladder, while others transfer to administrative career tracks. As the nature of industrial pharmaceutical research becomes more sophisticated, those researchers with strong scientific backgrounds compete more effectively for management positions. The increasing number of pharmaceutically trained individuals now entering the upper levels of management will have an increasingly significant impact on the direction of health related research programs in the future. The demand for outstanding researchers in pharmacy will, therefore, continue to grow.

Exclusive personality development sessions, soft skill development programmes are organized to prepare our students for high-end placements. The Institute has actively taken the initiative to provide placement assistance/ organising campus interviews (both in-campus and out-campus) for the passing out students through the placement cell. We are proud to maintain an excellent placement record of our alumni and committed to 100% placements of the aspiring students.

The University has largest placement support system and conducted more than 120 placement events in a year

Our Pharmacy Students has been placed in various top notch companies



## ONLINE ADMISSION PROCESS

In order to have more systematic and transparent system of admissions, the University has adopted the "Online Admission System" which inevitably avoids all delays in the process of admissions. Students can fill the online admission forms by paying Rs. 800/- cash at University finance department or by DD of Rs. 800/- drawn in favour of Suresh Gyan Vihar University, Jaipur at <http://registration.gyanvihar.org> before filling the online admission form student should check the norms and eligibility criteria for admission at our website [www.gyanvihar.org](http://www.gyanvihar.org).

*"The University welcomes you to the world of excellent education and a great career"*

Gyan Vihar University, Mahal, Jagatpura, Jaipur-302025, Rajasthan (India), website - [www.gyanvihar.org](http://www.gyanvihar.org)  
e-mail:- [admission@gyanvihar.org](mailto:admission@gyanvihar.org), Tel. No:- 0141-6450389-90, For Admission Query Cont No. 09413345444, 09414033422, 09413341196

**RANKED AMONG**  
THE FINEST UNIVERSITY OF COUNTRY



# GYAN VIHAR School of Pharmacy

Approved by PCI and UGC



THE UNIVERSITY

The University is established by the state government of Rajasthan, vide Suresh Gyan Vihar University, Jaipur, Act no 16, 2008.

The University is recognized under section 2(f) of the UGC Act, 1956 and has been empowered to award degrees under section 22 of UGC Act. The University offers a wide range of programs in the areas of Management, Engineering, Pharmacy, Bio-sciences, Hotel Management and Education. Around 6000 students are pursuing education in various programs offered by the university.

The university is ranked 3rd among private universities of the country by Financial Express 2009. A Study conducted by DNA has placed Gyan Vihar on the Top amongst private universities across the country.



PICTURESQUE CAMPUS

The University is situated on a sprawling and picturesque campus at Mahal, Jagatpura, Jaipur. A serene atmosphere bereft of any noise and air pollution rejuvenates the spirit of learning and the first step into the campus fills one with an all pervading ambience of academic excellence. In terms of infrastructure, campus and human resources Gyan Vihar is amongst one of the best institutions in India. Our infrastructure is dynamic as we are constantly striving to maintain pace with the latest developments. The infrastructure acts as facilitator for the effective delivery of our curriculum.

GYAN VIHAR SCHOOL OF PHARMACY

Gyan Vihar School of Pharmacy, established in 2003, is one of the leading institutions of Pharmaceutical Education and Research in Rajasthan.

School of Pharmacy is running a PCI approved undergraduate course (B. Pharma), UGC affiliated M.Pharma and Ph.D programs with consistently impressive academic performance and an equally impressive extra curricular achievement by the students has put the school on the national map. Highly impressive placement record is premium feature of the school.

The School of Pharmacy provides an impressive portfolio of courses to meet the continuing professional development and educational needs of the health care profession.

These modules offer the opportunity to design a programme of study to meet your own interests with leading edge of health care education. The School of Pharmacy offers post graduate programmes, providing extensive opportunity for in-depth study and development of advanced skills in a range of areas and contributing the advancement of healthcare practice, management and professional education.

The School of Pharmacy is committed to deliver quality research to the highest ethical standards in order to improve knowledge and services for the health of the community.

Research students go through strong training programme. This includes a wide range of qualitative methodology and methods and statistics training to support the development of skills as a researcher. Focussed minor and major research projects in various specializations of school convey its success story and scientific potential.

UNIQUE FEATURES

The aim of Gyan Vihar School of Pharmacy is to develop better-informed and skilled Pharmacist, with deep insight, sharp acumen, good analytical skills, high moral character, good leadership quality and competent enough to develop the pharmacy industry.

- + All Programs are approved by University Grant Commission (UGC).
- + Top ranking Pharmacy school in Rajasthan.
- + Faculty with brilliant Academic credentials and rich Corporate/Industry experience.
- + Well designed Curriculum of international standard blended with Value based education.
- + State-of-the-art well equipped laboratory.
- + Herbal & Medicinal Garden.
- + The department has separate CPCSEA approved animal house.
- + World-class infrastructure. Stimulating and nurturing learning environment.
- + Most modern computer labs having 24x7 connectivity through 1 GB Wi-Fi link.
- + Smart class rooms and seminar halls.
- + Ultra modern Gymnasium and fully equipped sports complex.
- + Excellent hostel facility-separate for boys and girls (with 1000 capacity).
- + 14 social clubs for overall personality development & infusing creativity
- + Industrial visit to provide global exposure.
- + Several Extra Co-curricular activities.

PROGRAMS OFFERED

Programs	Qualification	Selection Criteria (Entrance)
B.Pharm.	10+2 with 50%	GVSAT
M.Pharm. Pharmaceutics	B.Pharm. with 60%	GPAT/DIRECT
M.Pharm. Medicinal Chem. & Drug Discovery	B.Pharm. with 60%	GPAT/DIRECT
M.Pharm Pharmacognosy	B. Pharm. with 60%	GPAT/DIRECT
M.Pharm. Pharmacology	B.Pharm. with 60%	GPAT/DIRECT
M.Pharm. Quality Assurance	B.Pharm. with 60%	GPAT/DIRECT
M.Pharm.P'Ceutical Biotechnology	B.Pharm. with 60%	GPAT/DIRECT

DEPARTMENT OF B.PHARMACY

This course is for people looking for a career in the health & medication services. The aim of this course is to prepare graduates to deal with the current challenges offered in healthcare. This degree will give the students all fundamental expertise in aspects of medicines & drugs. Students will gain the practical and professional skills needed for stimulation, challenging and varied career in pharmacy. During the studies you learn to

- Provide pharmaceutical care to patients
- Develope and manage medication distribution and control systems
- Manage the pharmacy
- Promote public health
- Provide drug information and education



DEPARTMENT OF PHARMACOLOGY

Pharmacology department of the Suresh Gyan Vihar University is engaged in the development of new therapeutic modalities in the treatment and prevention of various diseases and disorders for maintenance of normal human health and well being. Assessment of the activities in the department is reflected with significant published research papers and articles in national and international journals, perodicals and books. Specialized features of the department are in the field of cardiovascular diseases such as angina pectoris, myocardial infarction, arrhythmias, atherosclerosis, hematopoietic system, thromo-embolic, peripheral artery diseases, metabolic disorders, neuropsychopharmacology, learning and memory enhancing agents, ethno pharmacology, clinical research and so on. The department has separate CPCSEA approved animal house in which animals like rats, guinea pigs, rabbits, mice and other animals breathe in well maintained sanitized conditions, provided with temperature controlled by air conditioners and heaters in respect to weather changes. We train the PG and doctoral students with high input of research techniques, new trends and challenges in the area of pharmacological research, so that they fetch good opportunities such as scientists in pharmaceutical R&D, government research labs such as CDRI, RRI Jammu, CROs and many more.

DEPARTMENT OF PHARMACEUTICS

Pharmaceutics is concerned with the strategies by which biologically active compounds are presented to the body so as to elicit an optimal response. Included are the design, preparation and testing of drug-delivery systems. A pharmaceutical scientist characterizes physical properties of drugs , develops innovative delivery systems for drugs ,quantitatively evaluates drug absorption, distribution, metabolism, excretion, and pharmacological activity in the living organism. The Department of Pharmaceutics offers PG and doctoral students the opportunity in the area of Pharmaceutical expertise. Research Scholars are provided with one of the most dynamic programs in the area of pharmaceutical product discovery and development. With increasing foreign investment and globalization, there has been a tremendous growth of Indian pharmaceutical industry in terms of increased manufacturing, production and research units. With this there is a great demand of trained, qualified and specialized pharmacuticians.

DEPARTMENT OF QUALITY ASSURANCE

Quality Assurance is a vital part of drug development in small pharmaceutical environment. It is the department which is responsible for ensuring that all the appropriate procedures have been followed and documented as per the guidelines given by various regulatory authorities to make the drug safe. Pharmaceutical quality assurance is a dynamic process, state of mind or an understanding of the regulations and guidance relating to the development and manufacture of pharmaceutical products. The key objective of the department is to make the students aware of GMP, GLP, GCP, GWP, Process Validation, stability studies, documentation and other regulatory guidelines which have to be followed to quality of pharmaceutical products.



# Research@gyanvihar

**Suresh Gyan Vihar University**, Jaipur offers research programs leading to Ph.D degree. The degree is awarded in recognition of high academic achievements, independent research and application of knowledge to the solution of technical and scientific problems in various disciplines such as Science, Technology, Management, Health Management, Physical Education, and Education. All research work shall basically aim at promoting creativity and productivity.

The University shall endeavor to encourage excellent opportunity for research in interdisciplinary areas through a system of joint supervision and shall also undertake sponsored research and development projects from the industry, the public/private sector organizations and other funding agencies.

The Ph.D. degree shall be conferred upon and awarded to a candidate who fulfills all the requirements specified in the Ordinances and Regulations in the discipline of the department in which the candidate is registered.

## Commitment

To be a research student will mean a lot of work, commitment and dedication. Your studies involve undertaking independent research in your selected topic and working closely with your supervisors, who will advise and guide you throughout the duration of your research. In addition to your own commitment, the University will expect you to :-

- ★ Take personal responsibility for planning your own work and complete it within the stipulated time.
- ★ Contribute to and participate in events which will allow you to discuss your work and provide feedback.

### In return the University is committed for :-

- ★ Providing you with a nurturing educational environment which will allow you to fulfill your academic potential.
- ★ Providing you with the opportunities to develop your skills.
- ★ Listening to your views and opinions about life at the University via regular, formal and informal feedback events.

## How long will it take?

Your period of registration will vary according to the option whether to study full time or part time. As a full -time research scholar for a Ph.D, thesis can be submitted after 24 months while a part - time research student can submit after 48 months. Prior to submission research scholar has to give Pre-Ph.d Presentation.

## What is involved?

After you complete your research, the results are presented in a hard bound copy of your thesis. The length of the thesis is usually 40,000 to 80,000 words, depending on the subject of study and method of presentation. The examination process leading to your award consists of two parts. Firstly, your thesis is assessed by at least three examiners, one internal and two external, which will be followed by viva-voce examination.

## Ph.D Course Work:-

The course work for the doctoral research has been made mandatory by the UGC. Suresh Gyan Vihar University has decided to implement this on the immediate basis for the benefit of the students pursuing Ph.D. The course work is designed in such a way as to support, motivate and encourage quality research. By undergoing this course work, the student will get equipped with fundamentals of research methodology, scientific communication and also recent developments in the field of specialization. The course work has to be completed by the student in a satisfactory way before submission of his/her thesis for the award of Ph.D degree by Suresh Gyan Vihar University.

## Ph.D Admission Process

Ph.D admissions are based on norms of Ph.D as per UGC Guidelines 2009. Ph.D candidate are admitted on the basis of Pre Ph.D entrance exam conducted by the SGVU in the month of July & January every year. Candidate seeking admission in Ph.D program needs minimum 60% marks at the qualifying exam or equivalent in the respective post graduation. Once your application is submitted online it is forwarded for scrutinization & further processing to Dean Research. Your admission will be confirmed only on qualifying the Ph.D. Entrance Test and subsequent interview. However NET, UGC/CSIR, M.Phil/GATE qualified candidates are exempted from this entrance test.