



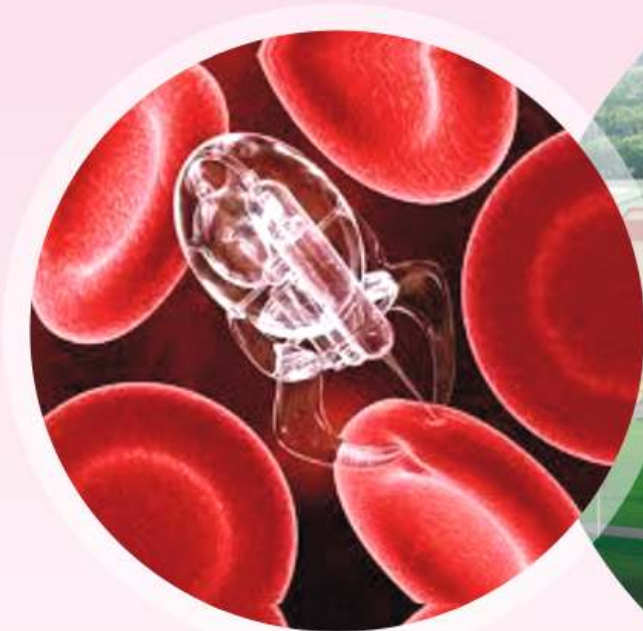
BHAGWANT UNIVERSITY

Ajmer, Rajasthan

Established by Govt. of Rajasthan and Recognized by UGC, ISO Certified
Approved by BCI, PCI, NCTE, Member of AIU, IAP, AIMA, FICCI

Awarded by Najma Heptulla as
"Best Self Financing University in Rajasthan"
by Prime Time Research Media Ltd.

Awarded by Kapil Sibbal as
"Best Group of Institutions"
by AAJ TAK & Royal Brand Pvt. Ltd.



DEPARTMENT OF NANOTECHNOLOGY

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For More Information SMS 'BU' at 56677

BHAGWANT GROUP OF INSTITUTIONS

MESSAGE FROM CHANCELLOR



Dr. Anil Singh

Bhagwant Group of Institutions, a renowned name in the realm of education has taken giant strides for its progress. Bhagwant University Ajmer, Rajasthan has been established with an object of imbibing academic excellence, upholding and maintaining ethical values. It is enriching knowledge, skills, attitude and self belief, so as to enable students to be successful in their future endeavor.

It is providing comprehensive, multifaceted, inter disciplinary, world class education with its dedicated, involved and committed staff. Bhagwant University plays a vital role in the socio-economic growth of the nation.

I welcome student fraternity to experience the amiable educational environment at Bhagwant University and discover new horizons

ABOUT THE UNIVERSITY

Bhagwant Group of Institutions has been started by a Group of NRIs, Engineers and Academicians in 1999, who have done a pioneering work in the field of education. It's a matter of pride and honour that under the aegis of Bhagwant Group of Institution, Bhagwant University, Ajmer, Rajasthan has been established in 2008 by Act No. 18 u/s 2f of the UGC Act 1956. Bhagwant University has well established center for Engineering, Management, Science, Pharmacy, Education, Hotel Management, Physiotherapy and Mass Communication with state of the art facilities for training and research. It is providing quality education for rural and urban citizens through different modes at par with global standards.

FOREIGN COLLABORATION

Our University has developed relationship with reputed Foreign Universities and colleges around the globe for student and faculty exchange, development programme and International Internship.

The Universities with whom we have Tie-ups are :

- Sheffield Hallam University, UK
- Gannon University, Pennsylvania, USA
- University of Western Australia, Perth, Australia
- Norwegian University of Life Sciences, NMBU, Norway

MILESTONES OF BGI



Bhagwant Group of Institutions has been imparting Education in Technical, Management and Pharmaceutical disciplines since the year 2000 and has earned great distinction. The following Institutes of the Group have been approved by All India Council for Technical Education (AICTE) / National Council for Teachers Education (NCTE) / UGC respectively.

- Bhagwant University (BU), Ajmer, Rajasthan
- Ajmer Institute of Technology (AIT), Ajmer, Rajasthan
- Bhagwant Institute of Technology (BIT), Muzaffarnagar, U.P.
- Bhagwant Institute of Technology (BIT), Ghaziabad, U.P.
- Bhagwant Institute of Pharmacy (BIP), Muzaffarnagar, U.P.
- Bhagwant College of Education (BCE), Muzaffarnagar, U.P.
- Shakuntla Girls Degree College (SGDC), Chandpur, Bijnor, U.P.
- Bhagwant Public School (BPS), Chandpur, Bijnor, U.P.
- Bhagwant Institute of Medical Science, Muzaffarnagar, U.P.
- Bhagwant Institute of Technology & Management, Muzaffarnagar, U.P.



Our meritorious and outstanding students are placed at various Companies and MNCs of National and International repute like Wipro, Infosys, HCL, TCS, ICICI etc.

INFRASTRUCTURE

Campus & Environment

The campus of Bhagwant University Ajmer is spread over more than 100 acres of land. The University building has been designed and constructed under the supervision of highly qualified architects and consists of lecture theaters, tutorial rooms, computer labs, conference hall, laboratories, workshops, library and administrative offices with lush green lawns and a pollution free environment.

Library

The University has spacious, updated and rich Library which houses different books on Engineering, Pharmacy, Physiotherapy, Education, Hotel Management, Sciences, Law, Management, Computers and general subject books. Many national & international journals and periodicals are subscribed on regular basis.

Hostel Facilities

The Institute has fully furnished separate hostel facilities for boys and girls. These are supported by an excellent mess, common room, STD-PCO, Internet Access (fully Wi-Fi), Canteen, Provision Store, Medical Assistance.

Internet Facilities

24 hours Internet facilities are being provided through BROADBAND @ 1 Gbps for Students. Free internet facility is also provided round the clock to Students.

DEPARTMENT OF NANOTECHNOLOGY

Introduction

Department of Nano Technology was established in the University in 2008 and has fully equipped laboratories with latest equipments, gadgets, equipments and instrumentation systems for undergraduate program. It has well stocked books in the library on nano technology, nano science, synthesizing of Carbon Nanomaterials, Development of Nanophosphors, Drug/Vaccine Delivery, Water Purifications by nanoparticles & composites, Development of Nano-oxides-Al₂O₃, TiO₂ etc., Semiconducting Nanomaterials and applications, Nanocomposites based Solar cells and LED, Green Nanotechnology for health Care, Forensic Nanotechnology and Biosensors and related areas. The computer lab is having latest configuration hardware and software including TSUPREM, ISE TCAD, SMC (Monte Carlo), Medici.

Course Offered

Course	Branch	Duration	Eligibility Criteria
B. Tech.	Nanotechnology	4 Years	Intermediate/ Higher Secondary (10+2) from any state board/ CBSE/ ICSE with Physics, Chemistry and Mathematics or Biology obtained at least 45% marks (40% in case of candidate belonging to reserved category).

Nanotechnology Synthesis Lab

Nanotechnology labs are well equipped with instruments related to synthesis of nanoparticles, nanomaterials by various methods. Students are exposed to Structure and Growth of thin Films, synthesis of Nanostructure



materials: monodisperse nanoparticles (Pd, Ag, Cu), bimetallic nanoparticles (Pd-Ag, Pd-Au, Pd-Cu), metal oxides (PbO, TaO, TiO₂, ZnO), nanocomposites by gas phase, sputtering, inert gas evaporation for gas sensing applications, photo catalysis, solar cells and as pinning centers in superconductors.

Nanotechnology Characterization Lab

The facilities in Nanotechnology Labs Includes Laminar Air Flow, Ball milling, UV-Visible Spectrophotometer, Oven, Magnetic Stirrer, Ultrasonicator, Incubator etc. The major equipments, instruments and processes used in nano technology include Class 1000 Clean Room (class 100 work areas) with facilities for complete IC manufacturing (Optical & Electron Beam lithography, Reactive-Ion-Etch, Deposition, Sputter, RTP, Furnace facilities), MEMS/Nanoelectronics fabrication facility, AFM, STM, ESCA, XRD, TEM, Raman Spectroscopy, Dynamic light scattering system with Zeta particle meter, Nanoparticle spray dryer with electro spray coating, Scanning mobility particle sizer, Tissue Culture room, Cadence, Mentor, Synopsys, Tanner, Xilinx-public domain tools, Micromap, Micro PIV, Micromap, Micro PIV etc.



Nanotechnology Design Lab

Nanotechnology Design Lab deals with design, characterization, production, and application of structures, devices, and systems by controlled manipulation of size and shape at the nanometer scale that produces structures, devices, and systems with at least one novel characteristic or property.

Training in Nanotechnology Courses

Projects and Summer Training in B Tech Nanotechnology course from reputed national labs or Universities e.g. N. Shankaran Nair Research Center for Nanotechnology and Bionanotechnology (NSNRC) Mumbai, CSIR labs (NPL, NCL, etc), AMU Aligarh, NIT Silchar, NIT Kurushetra and many more. Students are taken to nano technology centers in IITs, NITs, IISc, Institute of Nano Science and Technology, PGIMER, CSIO, IMTECH, IISER, NIPER, NABI, TBRL, ISB, PEC, IIT-Ropar, NITTR, GMCH, INST, CIAB etc for hands on experience. There is ample scope and opportunities for training and internship in Indian and International Companies.



Scope & Career Opportunities

A student should come with an open mind to pursue this course. The application of fundamentals is very necessary. He should be well-versed with subjects such as Physics and Chemistry. It allows a student to explore and innovate. So an objective and rational approach towards research and innovation is very important in this field.

Major recruiters in public and private sector include NanoSniff Technologies. Mumbai, Center of Excellence in Nanoelectronics, Mumbai, Pharmaceutical Industry (Phyto Pharmaceuticals Cuttack Orissa, Natco Pharma Limited, Hyderabad etc), Paints industry (I-Can Nano (Innovation Center for Applied Nanotechnology Kolkata, Vivid India New Delhi, Nilima Nanotechnologies Mumbai etc), Cosmetics industry, Diagnostics and drug delivery industry, Yashnanotech, VelbioNanotech, Nanoshell, Nanobio chemicals, Micromaterials etc.

Few of Pass-out students of B. Tech. Nanotechnology



Utkarsh Prakash
(Batch: 2008-12)
Pursuing MS from
Nagoya Institute of Technology,
Japan



Vijendra Singh Bhati
(Batch: 2008-12)
Pursuing PhD from IIT,
Jodhpur

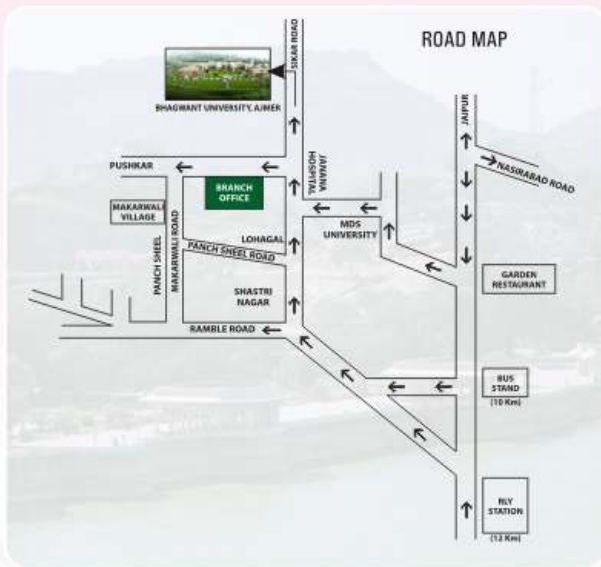


Nikhil Kumar
(Batch: 2010-14)
Pursuing MS from
Nagoya Institute of Technology,
Japan

HOW TO APPLY

Registration Form can be procured by sending a DD of Rs. 1000/- in favour of "Bhagwant University", payable at Ajmer, at the following address Registrar-Bhagwant University, Sikar Road, Ajmer (Raj.) - 305004 or Download it from our website and send it along with a DD of Rs 1000 as stated above. Applicant will have to fill up the Admission form for the desired course along with the requisite fee which can also be downloaded from our website : www.bhagwantuniversity.ac.in. Online admission encompassing all above steps is available on website with online payment option.

FOR MORE INFORMATION : **SMS 'BU' at 56677**



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