



# 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, YHAI, ACU, IETE

## BIG DATA PROGRAMS

Awarded as  
"Best Group of Institutions"  
by HRD Minister Kapil Sibbal through  
AAJ TAK & Royal Brand Pvt. Ltd. In 2014

Awarded as  
"Best Self Financing University in Rajasthan"  
by Cabinet Minister Dr. Najma Heptulla through  
Prime time research media Ltd. In 2014



## BIG DATA ANALYTICS

Sikar Road, Ajmer (Rajasthan)—305 004

Tel. : +91- 145-2789406, 2789407 | Mob. : +91- 9928144443

email : unibhagwant@rediffmail.com | website : www.bhagwantuniversity.ac.in

Labs for UG and diploma Courses with latest Hardware and software like MS Office, Code Block, Dev C++, Java, Eclipse, Visual Studio 2010, Turbo C++, Sclib 5.5.2, Oracle, Packet Tracer, Python, MySQL, JDL 1.8 with JCreator, Visual Basic, SPSS, MATLAB, PSCAD, PSPICE, Tally, Maxwell, Windows10, Linux, Adobe Photoshop, SAP, ERP, Novell, Cyberoam etc. Trained Faculty and World class computing facilities at Bhagwant University motivate our students to:



- Get trained and to do certification through SWAYAM, NPTEL, and Courseera
- Develop interactive and dynamic websites.
- Keep up with emerging internet technologies
- Develop enterprise and Commercial applications
- Learn Web, Mobile and Development.

#### Skill Enhancement Certifications Courses for students

UG/PG Students are encouraged to undertake additional Big Data Certification from online portals like SWYAM, NPTEL & COURSEERA. This includes topic like

- Big Data Modeling and Management System
- Big Data Integration & Processing
- Big Data Capstone Project
- Data Analytics
- Query Processing Lab
- Graph Analytics for Big Data

#### Wipro, Infy speed-date IoT, big data startups



#### Library Resources

Departmental Library, central Library and computer labs have large number of books and journals and magazines in hard copy format as well Soft copy. The networking provides access to IEEE, ACM, Elsevier, Springer Edx, Courseera, MOOCS, NPTEL, SWYAM Certifications.



#### Placement/Career Prospects

The students have career opportunities and get placed in Indian and MNCs including INFOSYS, TCS, IBM, WIPRO, accenture, ESCOTEL, Amadus, Cognizant, Cybeg, Fidelity, Mphsis, Tech Mahendra, 3A Infotech, Aptech, NIIT, Dlink, First Source Solution, KPIT, L&T Infotech and many more. Support for higher education, entrepreneurship, and startup guidance is also provided to students.

#### Industrial Visits

Students are taken to prominent hardware and software companies in Ajmer, Jaipur, Delhi, Hyderabad, Chennai, Bangalore, and Mysuru.



#### HOW TO APPLY

Registration & Admission form can be procured by sending a DD of Rs.1000 in favor of "Bhagwant University" payable at Ajmer, at following address Admission Incharge, Bhagwant University, Sikar Road, Ajmer (Raj) - 305004 or download from website and send with a DD of Rs 1000 as stated above.

**Contact: 91-9473586827, 9928144443**

#### OVERSEAS OFFICES

- 35/2/2, Silverdale Shopping Complex, Yatinuwar Vcediya, Kandy, Srilanka  
Tel : 0094-8-201517  
Fax : 0094-8-224249
- 24, Jalan USJ 3/3E, 47600, Subang Jaya, Selangor D.E., Malaysia  
Tel : 00 60 3 56370570

#### CORPORATE OFFICE

926, Tower-A, DLF Towers  
Jasola, New Delhi - 110025  
Ph. : 011-40574256, 40574801

#### HEAD OFFICE

50, Avas Vikas Colony,  
Bijnor - 246701 (U.P.)  
Tel : 01342-265410  
M : 08006541541

#### ROAD MAP



# BIG DATA PROGRAMS

## BIG DATA

Big Data offers a unique assortment of advanced analytical models, tools and techniques and an ecosystem that help derive a meaningful insights from data. Analysts are predicting high growth rates of big data technology and service market to grow to US \$48.6 Billion in 2019. Annual demand for the fast growing new roles of Data Scientist, Data Developers and Data Engineers will reach 800,000 opening by 2025. The numbers of jobs for all data professionals will increase by ten fold. All countries world wide realize that developing skilled manpower in big data analytics is a priority in order to keep pace with technological advancements.

### M.Sc C.S. (Big Data) & M.Tech. (CS) Big Data

The program Master of Science (MSc) and M.Tech. (CS) in Big Data specialization is designed to meet the increasing need for highly skilled data analysts who can analyze the growing amount of data confronting in a variety of disciplines, and transform it into usable information for use in decision-making. The program delivers rigorous training in computational techniques and provides mastery of data analysis. The program will provide students with frameworks for critically looking, interpreting and visualizing data, and applying that knowledge in real-world applications that will shape 21st-century business challenges.

This specialization is made for people who want to work with data (either small or big). If students want become a Data Analyst, Data Scientist, Data Engineer or Data Architect— don't miss the opportunity to expand their knowledge and skills in the field of Big Data, Data Engineering and Data Analysis on the large scale.

Through these courses students will learn the basics of Hadoop, MapReduce, Spark, methods of offline Data Processing for Warehousing, Real-Time Data Processing and large-scale Machine Learning. And Industrial Project to build and deploy Big Data Service making portfolio even more competitive.

Over the course of Big Data specialization, students will complete progressively harder programming assignments (mostly in Python). This course will master students' skills in designing solutions for common Big Data tasks: creating batch and Real-Time Data Processing pipelines, doing Machine Learning at scale, deploying Machine Learning models into a production environment — and much more!

Some of the best hands-on Big Data Professionals, who know, their job inside-out, prepare the students through basics, as well as some tricks of the trade.

### Admission Process

Admission in PG Program is through Aptitude Test. The candidate are required to Contact on Mob:+91- 9473586827, 9928144443 The entrance will have Multiple Choice Questions of 1 hrs duration.

For admission in Big Data program, the syllabus of the Test includes Aptitude and Attitude in Data Analysis. Question will be mainly from Aptitude, Mathematics, Physics, Computers of UG level Degree Program. Vacant Seats are field based on merit.

### Industry Partnership

Course is being offered under guidance of technocrats form leading IT industry. University has signed MOU with Top IT Industries for providing Training to students and assist in providing Placement after completion of course.

### Career Prospects

Curriculum design is industry relevant enabling ample placement opportunities. On successful completion, the candidate will be big data ready to embark on a flourishing career in leading organization.



## COURSES OFFERED

First Year(IstSem / IInd Sem)	Second Year (IIIrd Sem/ IV Sem)
Statistical Methods	Deep Learning
R Programming with Statistics	Enabling Technologies for Data Science
Linear Algebra & Matrix Theory	Data Mining using Excel Miner
Computing for Data Sciences	Time Series & Forecasting
RDBMS & SQL	Banking & Marketing Analysis Marketing Analysis
Data Mining	Cloud Computing
Python & Jython	Bioinformatics
Data Warehousing	Machine Learning with Big Data
IOT, Blockchain	Combinatorial Optimization
Data Visualization using Tableau	Apache Hadoop & Spark Developer
Advance Query Processing	Artificial Intelligence
Big Data Industrial Project	

### Courses with specialization in Big Data

Department of Computer Science & Engineering also offers other courses like B.Tech (CSE), BCA, MCA, M.Sc (CS), M.Sc. (IT), Diploma (CSE) with specialization in Big Data and Data Science through above elective courses. After completion of course students earned skills include Big Data, Data Mining, Apache Hadoop, Python etc.

### Course Structure

Syllabus of Big Data is designed after research and feed back form Big Data and Data Science professionals from industry and research organization. Here is a brief outline of M.Sc. CS (Big Data) and M.Tech CS with Big Data course structure along with 6 months industrial training based Internship Project. UG, PG Diploma programs have electives to specialize in Big Data.

### Faculty of Computer Science & Engineering

Faculty of Computer Science started in year 2008. It encompasses Department of Computer Science & Engineering, Computer Application, Information Technology, Computer Technology etc.

### Cutting Edge Laboratories & Facilities

The Department provides extensive computing recourses for research and education. It include more than 500 high performance Desktop: Dell Vostro 3470 SFF Desktop-Core i5 8th Gen 8 GB DDR4 in range of Linux, Windows, Sun and Apple workstations and a good numbers of Laptop in 12 Laboratories apart from special research Labs. In addition to general purpose file server, the department maintains specialized server for database clients, Linux based workstations, Cloud storage and supporting SDN test bed, Blade Server, Cloud Computing. The university network communications include a fiber optic backbone, offering 1 GBPS bandwidth from NKN (National Knowledge Network).

Computing Centre also have special software packages for Data Mining, Big Data, & Machine Learning like Anaconda, SPSS (Statistical Package for the Social Sciences), Weka, Origin, Rapid Miner, XG Boost, Oracle Data Mining, Apache Mahout, Orange, Apache Cassandra, Mongo DB, HPCC, Big Data & Hadoop administrator, Apache Spark & Scale, Apache Strom, Apache Cassandra, Apache Kafka, Apache Spark Computing Center At Bhagwant University also have separate



# 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.

## 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
- Bhagwant Global University (BGU) Kotdwar, Uttarakhand
- 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 Degree College (SDC), Chandpur, Bijnor, U.P.
- Bhagwant Public School (BPS), Chandpur, Bijnor, U.P.
- Bhagwant Institute of Medical Science, Muzaffarnagar, U.P.
- Bhagwant Institute of Paramedical Science, Muzaffarnagar, U.P.
- Bhagwant Hospital, Muzaffarnagar, U.P.
- Baxil Pharma, Haridwar, U.P.
- Bhagwant Hospital, Ajmer, Rajasthan

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

## ABOUT THE UNIVERSITY

Bhagwantt University is formed under the aegis of Bhagwant Group of Institutions and has been established by Government of Rajasthan and approved by UGC, as per section 2f of UGC Act 1956. It is a member of AIU, ACU, IETE, ISCA, FICCI, AIMA, YHAI, IAP. It is also an ISO-9001 certified University. Bhagwant University offers Under Graduate, Post Graduate & PhD programs in technical & professional courses like Engineering, Management, Pharmacy, Education, Media & Mass Communication, Medical Science, Applied Sciences, and Humanities faculty. It has academic collaboration with international universities. The University has **state-of-the-art** physical and academic infrastructure, with educated, learned and highly qualified faculty. It has collaboration with international universities to give global exposure to students. Bhagwant University is located on Sikar Road, Ajmer. It is about 10 kms from bus station and 12 kms from railway station. The University is well connected with transport services at intra-city level and with rail and road at intercity level. The University building is not just aesthetically built but is very functional and well set in green environment

## FOREIGN COLLOBRATIONS

Our University has developed relationship with reputed international universities and colleges around the globe for student and faculty exchange, development program and international internship.

The Universities with whom we have tie-ups for internship, exchange, semester abroad, higher studies are:

- Sheffield Hallam University, United Kingdom
- Gannon University, Pennsylvania, USA
- Norwegian University of Applied Science, Norway
- University of Western Australia, Perth, Australia
- Kasetsart University, Bangkok, Thailand
- University mara kuala lumpur



Sheffield Hallam University



V.C. in Cambodia



Malaysia Tour



Dubai Tour

Bhagwant University organizes International Tour regularly almost two tour a year. Since 2016 five tours have been organized. It helps students to get exposures on technology, science, Arts, Culture and architecture of the country.

Following International Tour have been organized since 2016

Sr. No.	Country, Place	Dates	Total No. of Student & Teachers	Purpose
1	Bangkok, Thailand	19 <sup>th</sup> to 23 <sup>rd</sup> March 2016	6	Visit Educational Institutes, Industries. Attend conferences, Education summits, Sightseeing. Some important Institute visited are Kasetsart University Bangkok, Asian Institute of Technology, Bangkok, Nan Yang University Singapore, PSB Academy Singapore, Ui TM Tech. University Malaysia, Indian High School Dubai, Straits Law Malaysia, Some Industries like NEWATER cycle plant Singapore, Al Arabia Electrical Industries Dubai, World Education Summit Dubai 2017.
2	Singapore	17 <sup>th</sup> to 23 <sup>rd</sup> Nov. 2016	24	
3	Italy	30 <sup>th</sup> March - 07 <sup>th</sup> April 2016	01	
4	Dubai	25 <sup>th</sup> to 29 <sup>th</sup> Nov. 2017	11	
5	Hong Kong	26 <sup>th</sup> to 28 <sup>th</sup> June 2018	7	
6	Malaysia	6 <sup>th</sup> to 11 <sup>th</sup> March 2019	17	

## 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.

### Hostel Facilities

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

### EXTRA CURRICULAR ACTIVITIES

Various personality development programs & seminars are will be conducted to enhance communication and technical \skills. Forthe over all development of students various Clubs are functioning as Cultural Club, Yoga Club, Sports Club, Movie Club, Logix Club, Science Club and Photography Club. Regular Department wise Educational Tours, Industrial Visits and excursion Tours are conducted in India & abroad.

### Internet Facilities-Wi-fi

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

