



RBU[®]

RAMDEOBABA UNIVERSITY, NAGPUR
Formerly Shri Ramdeobaba College of Engineering & Management (RCOEM) Est. 1984



SCHOOL OF HUMANITIES AND SCIENCES

ABOUT THE UNIVERSITY

Who We Are.....

With a rich legacy spanning over four decades, Ramdeobaba University (RBU) has established itself as a premier university dedicated to academic excellence and universal human values. Formerly known as Shri Ramdeobaba College of Engineering and Management (RCOEM), the university traces its origins to 1984, evolving into a multidisciplinary centre of learning. Nestled on a sprawling 17-acre campus in Nagpur, Central India, RBU is home to five dynamic schools: the School of Engineering Sciences, the School of Electrical and Electronics Engineering, the School of Computer Science and Engineering, the School of Management and the School of Humanities and Sciences. The university offers a comprehensive range of undergraduate, postgraduate, and doctoral programs, complemented by online courses designed to meet contemporary academic and industry demands. RBU's commitment to holistic education extends beyond conventional learning paradigms. Its online programs cater to regional and local industries, addressing critical skill development needs. Through strategic collaborations with leading national and international institutions and industry leaders, the university ensures students gain exposure to emerging technologies and global best practices, preparing them to excel in an increasingly competitive world. Ramdeobaba University is more than an educational institution; it is a hub of innovation, knowledge, and leadership. Rooted in a philosophy that harmonises modern advancements with traditional wisdom, Ramdeobaba University fosters an environment of intellectual growth and innovation.

Discover RBU

Established in 1984 by the Shri Ramdeobaba Sarvajanik Samiti, a registered charitable trust, Shri Ramdeobaba College of Engineering and Management (RCOEM), now RBU, Nagpur, is named in honour of Shri Ramdeobaba, a revered 14th-century saint. The institution was founded under the visionary leadership of Shri Banwarilal Purohit, who served as the Hon'ble Governor of Punjab and Administrator of the Union Territory of Chandigarh. The present chairman of Shri Ramdeobaba Sarvajanik Samiti, Shri Satyanarayan Nuwal, is also the Chairman & Founder of Solar Industries India Limited and has been recognised among India's top 100 CEOs by Business Today.

RBU is accredited with an NAAC A+ grade and has also earned a ranking from QS I-Gauge. The university has consistently achieved top rankings from esteemed agencies such as the National Institutional Ranking Framework (NIRF) and prominent publications, including India Today, Competitive Success Review (CSR), and Outlook.

Renowned for its excellence in engineering and management education, RBU is home to five state-of-the-art Centre of Excellence, developed in collaboration with leading industries. These include RCOEM-TATA-CIIT (Centre of Invention, Innovation, Incubation, and Training), NVIDIA Centre of Excellence for Artificial Intelligence and Machine Learning, Centre for Microsystems in partnership with Intellisense, Energy Research Centre (ERC), and RCOEM-QCFI Centre of Human Excellence. These centres foster cutting-edge research and innovation across diverse technological domains.

To further strengthen its innovation ecosystem, RBU has established RCOEM Technology Business Incubators Foundation (RCOEM-TBI), a Section 8 company dedicated to supporting entrepreneurship and technological advancement. Currently, RCOEMTBI has curated 75+ startups, playing a crucial role in nurturing emerging businesses and fostering an entrepreneurial culture.

A preferred destination for recruiters, RBU has built a strong reputation for producing industry-ready graduates. The students consistently receive outstanding job offers from top-tier companies, reflecting the institution's commitment to academic excellence, skill development, and professional growth.

RBU's Pioneer: Leading with Vision



Shri Banwarilal Purohit
Founder & Chairman Emeritus
Former Governor of Punjab,
Tamil Nadu & Assam,
Administrator U.T, Chandigarh



Shri Satyanarayan Nuwal
Chairman,
Shri Ramdeobaba
Sarvajanik Samiti (SRSS)



Shri Rajendra Purohit
General Secretary,
Shri Ramdeobaba Sarvajanik Samiti
(SRSS)

Shaping the Leaders of Tomorrow

As Chancellor of Ramdeobaba University, it is my privilege to extend a warm and sincere welcome to you. We take great pride in being one of the most respected universities in higher education, and as you embark on your academic and personal journey, I encourage you to discover the wealth of opportunities that await you within our thriving and vibrant community.

At Ramdeobaba University, we are steadfast in our commitment to nurturing an environment where innovation, creativity, and critical thinking can thrive. Our diverse and comprehensive programs, taught by esteemed faculty who are experts in their fields, ensure that you receive an education of the highest caliber, preparing you to navigate and succeed in an ever-changing world.

What truly sets us apart is our focus on holistic development. Beyond the classroom, you will have access to a wide range of extracurricular activities, research opportunities, and community engagement initiatives, all of which contribute to enriching your university experience and supporting your personal growth.

Whether your ambitions lie in entrepreneurship, pioneering research, or visionary leadership, Ramdeobaba University provides the resources and support you need to turn your dreams into reality. We look forward to welcoming you into our community and are excited to support you as you strive for excellence and achievement



Dr. S. S. Mantha Chancellor,
Ramdeobaba University,
Nagpur

Welcome to Ramdeobaba University, located in the heart of Nagpur, also known as the Orange City. Established in 1984 as a Central Indian Engineering Institute, we have since grown into a renowned university driven by the core values of knowledge, innovation, and excellence.

At Ramdeobaba University, we go beyond academics to cultivate leadership, character, and social responsibility, ensuring our students are equipped to tackle the challenges of an ever-evolving world. With a distinguished faculty, state-of-the-art facilities, and a diverse student body, we create an environment that fosters both academic success and personal growth. Our wide range of programs across various disciplines is designed to empower students to excel in their chosen fields.

As you begin your journey with us, you are joining a community that celebrates diversity, encourages innovation, and values the pursuit of knowledge. Whether you aspire to make a mark in engineering, management, entrepreneurship, or any other field, we are committed to providing the resources and support for your success.

Our mission is to empower students to live fulfilling lives and contribute meaningfully to society. Together, let's embrace opportunities, overcome challenges, and continue our shared quest for knowledge. Welcome to the Ramdeobaba University family. Best wishes for a rewarding and enriching journey ahead!



Dr. Rajesh S. Pande
Vice-Chancellor,
Ramdeobaba University,
Nagpur

ABOUT SCHOOL OF HUMANITIES AND SCIENCES

The School of Basic Sciences and Humanities at the Ramdeobaba University has been an integral part of the institution since its inception in 1984. This school comprises multidisciplinary departments that encompasses five distinct domains:

- Department of Mathematics
- Department of Physics
- Department of Chemistry
- Department of Humanities
- Department of Physical Education

The School of Humanities and Sciences offers a broad spectrum of knowledge with interdisciplinary education, blending the study of arts, literature, history, philosophy, social sciences, natural sciences, and mathematics. It promotes critical thinking, creativity, and analytical skills through a diverse curriculum and research opportunities. Students engage in rigorous academic exploration and gain a deep understanding of human culture, scientific principles, and the natural world.

The school prepares graduates for a wide range of careers by fostering intellectual curiosity and a commitment to lifelong learning, while also emphasising the importance of ethical and social responsibility in addressing global challenges.



Courses Offered

**Mathematics
department offers
courses for
UG programmes of
B.Tech. BCA**

- Calculus, Probability and Statistics
- Differential Calculus and Basics of Statistics
- Linear Algebra and Multivariate Calculus
- Linear Algebra and Integral calculus
- Calculus and Linear Algebra
- Probability and Statistics
- Matrices & Calculus
- Foundation of probability & Statistics
- Mathematics for Cyber Security
- Applied Mathematics-III
- Mathematics for Electrical Engineering
- Statistics for Engineers
- Applied Mathematics and Descriptive Statistics
- Linear Algebra
- Probability and Queuing Theory
- Numerical Methods
- Bio Statistics theory and Lab
- Computational Mathematics Lab
- Advanced Computational Mathematics Lab
- Numerical Methods Lab

Courses Offered

- English for Professional Communication - Theory and Lab
- Professional Communication Lab
- Foundational Literature for Indian Civilisation
- Foundational Course in Universal Human Values
- Technical Communication
- Professional and Employability Skills
- Communication Skills for Employability
- Personality Development and Soft Skills
- Business Communication
- Engineering Economics
- Twenty-two - open elective courses
- Two Minors programmes - Economics, Applied Psychology
- Seventeen Liberal Arts courses:
 - Languages (Japanese, German, Spanish, French, and Sanskrit)
 - Visual arts (Photography, Drawing, Painting)
 - Performing arts (Kathak, Bharatnatayam, Kirtan Kala)
 - Poetry
 - Creative writing
 - Nature Camp
 - Bhagwat Gita, etc.

**Humanities
department offers
courses for UG and
PG programmes of
B.Tech. BCA, and
MCA**

Courses Offered

Physical Education department offers courses for UG and PG programmes of B.Tech. BCA, and MCA

- Health, Fitness & Wellbeing:
- Liberal arts Courses on Adventure Sports, Introduction to Defence Forces & Obstacle Training, Basic Nutrition, Self Defence and Indian Martial Arts.

- Chemistry for Civil Engineers - Theory and Lab
- Environmental Science- Theory and Lab
- Engineering Chemistry - Theory and Lab
- Fundamentals of Materials Science and Smart Materials: Theory and Lab
- Chem-informatics-Theory and Lab

Chemistry department offers courses for UG programmes of B.Tech. BCA

Courses Offered

**Physics department
offers courses for UG
programmes of B.Tech.
BCA.**

- Physics for Civil Engineering Theory and Lab
- Introduction to Quantum Computing - Theory and Lab
- Semiconductor Physics - Theory and Lab
- Applied Physics- Theory and Lab
- Basics of Quantum Computing- Theory and Lab



Academic Highlights

Mathematics:



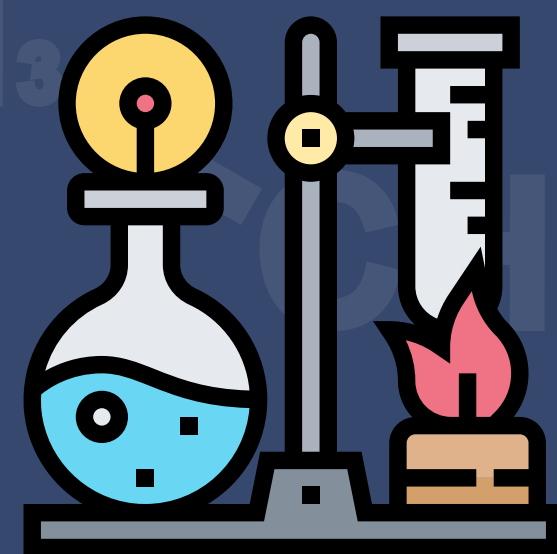
The Department is mainly responsible for running the Engineering Mathematics courses at the UG level.. Department has set up a computational laboratory for teaching mathematical concepts using open-source software.

Studying mathematics at the undergraduate level opens up a wide range of career opportunities across various fields such as Data Scientist, Data Analyst, Business Analyst, Quantitative Analyst, Financial Analyst, Investment Banker, Research Scientist, Algorithm Developer, Cryptographer, Statistician, Biostatistician, Market Research Analyst, etc.

Areas of specialization of the faculty include Fluid Dynamics, Semiring Theory, Group Theory, Statistics, Computational Mathematics, Theory of Relativity and Cosmology, Probability and queuing theory.

Academic Highlights

Chemistry:

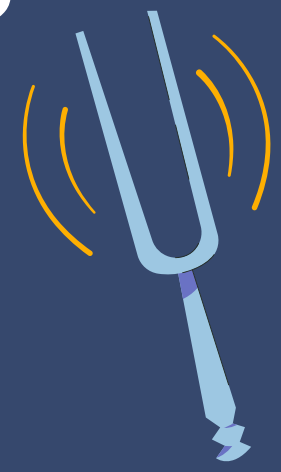


Other than teaching faculties are actively engaged in research and other important assignments of the Institute. The areas of specialization and research interest of the faculty members are Nanoscience, Synthetic Organic Chemistry, Physical Chemistry, Polymer Science, Material Science and Environmental Chemistry.

Faculties published more than 100 research papers in the SCI/Web of Science/Scopus Indexed journals as well as Scopus-indexed conference proceedings. Eight research students have been awarded with Doctoral Degrees from this research centre.

Currently, five research scholars are working in the Chemistry Research Centre. One of the faculty members has authored five textbooks on Chemistry for engineering students

Academic Highlights



Physics:

The mission of the department is to develop ability in the students to correlate and apply the basic principles of physics across various engineering disciplines and use it to develop need-based engineering applications.

The department is involved in teaching various courses as Quantum computing, Acoustics, Ultrasound, Semi-conductors Physics, Nanotechnology, Materials for Biotechnology, Sensors for Ro-botics, Oscillations & Waves, Electromagnetic fields. So as to benefit the students from higher learning in the physics domain, along with the open electives such Nano-technology, Solid-state lighting and Quantum computing.

The Department also trains students on Mathematica software as the analytical tool, and on IBM quantum lab. The department also offers value added courses on Gas sensors technology and ESP 32 for IoT.

Faculties have to their credit, apart from vast teaching experience, more than 100 research publications in reputed international journals indexed in SCI, Web of Science and Scopus and also conference presentations at leading institutes such as IITD, IIT BHU, IISC and abroad and have five granted utility patents till date with the organisation. They have research expertise in various domains such as theoretical optics, materials synthesis.

A grant of more than 1 Crore has been received by the department through various research projects funded by ICMR, DST, BARC, SERB and AICTE.

Academic Highlights

Humanities



The Department has specializations in English, Political Science, Technical Communication, Economics, Psychology, Environment Economics, Indian Traditional Knowledge, foreign languages etc. and has many courses for UG and PG students based on these specializations. It also offers seventeen liberal Arts courses.



Naturalist helping students differentiate between a dog and wolf pug marks as part of Nature Camp as a Liberal Arts course.

Students of Liberal Arts course (Art of Painting) with their oil paintings



Academic Highlights

Physical Education



The department has maintained the tradition of excelling in sports tournaments. It offers excellent opportunities for the overall development of the personality of the students through the Planned Physical Education program and Incentives throughout the session. The department offers various health & wellness-related courses and conducts numerous Sports activities for all students, Faculty and staff on the Campus. Under the Basket of Liberal Arts Courses for First Year Students, the Department Offers 04 Courses: Adventure Sports, Introduction to Défense Forces & Obstacle Training, Self-Defence and Indian Martial Arts and Basic Nutritional Course.

State of Art Infrastructure

Humanities

The Department of Humanities has a digitized English Language Lab., which has practical sessions on public speaking, interview techniques, group discussions and other related aspects of communication Skills.

Department of Physics

Department has a well-equipped Luminescence lab which is only of its kind in central India. The instruments in the lab are precision balance, portable USB spectrophotometer, all for chemical synthesis of phosphors, Fluorescence spectrophotometer (Hita-chi F-7000). Several research students have carried out their PhD work in this lab

Physical Education

Outdoor Sports Facilities

Basketball, Volleyball,
Cricket, Football (5 A
Side), Futsal Ground,
Paddle Ball Court,
Outdoor Badminton,
Pickleball, Lawn tennis

Indoor Sports Facilities

Table-tennis,
Gymnasium,
Chess/Carrom/ Yoga

Student Achievements

Sports



Till the date 127 students participated at All India University Meet/ West Zone Interuniversity Tournament

Average participation at All India Level/west Zone: 13 Students

Total Intercollegiate PARTICIPATION: 1415

Average participating at Intercollegiate Level: 141 Students

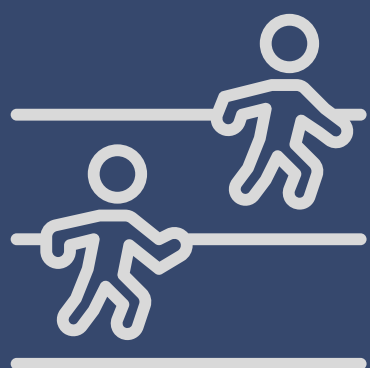


Top Three Position at Intercollegiate Level: 175 Games

Average Top three Position per year: 17 Events

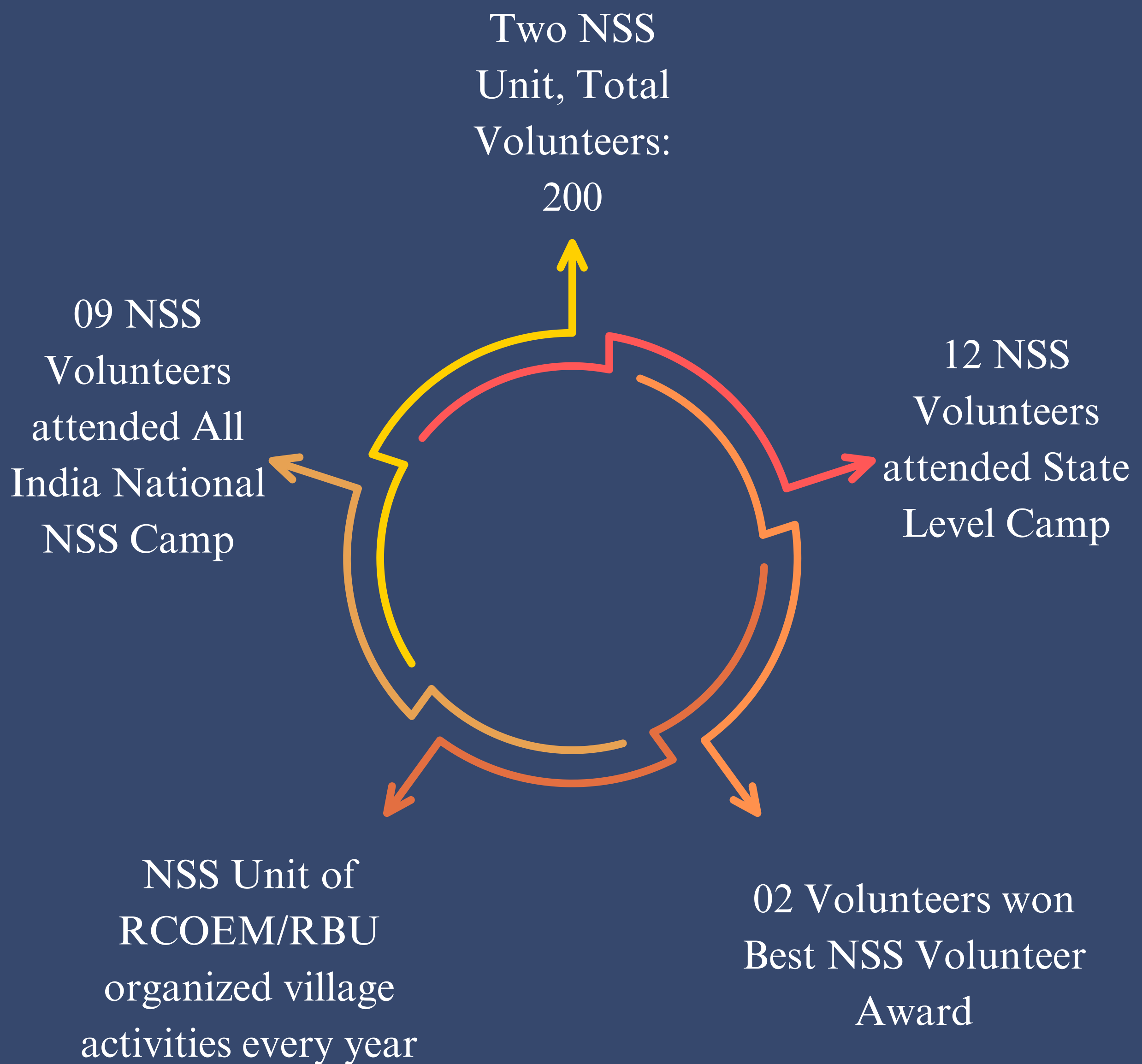
Till the date First Place (Championship): 38

**Won Chess Intercollegiate Tournament Consecutively
Three years**



**Overall Average Students Sports PARTICIPATION per
year: 1890**

National Service Scheme (NSS)



Global Exposure

Faculty of the Department of Humanities have been involved in many research projects with international research fellowship by the University of Michigan, and Honorary D.Litt. by Uruguay University. The Faculty of the Department has received training in Environmental Economics from International Forestry and Resources, Indiana University, USA and SANDEE. Faculty have also presented research papers in international conferences in Mexico, Chiangmai, Singapore, and Portugal.

Faculty of the Department of Chemistry regularly participate in international conferences abroad wherein they interact with renowned scientific fraternity and have joint publications in reputed journals.

Faculty from the Department of Physics have visited countries such as France, China, Korea, etc. for presenting their research work

Faculty Strength

Number of Faculties - 44 where 26
faculties are Ph.D.

Major Achievement

- ▶ The school has a well-equipped Research Centre established through 04 research grants of more than 1 Crore received from ICMR, SERB and DST and the MoU with Bhabha Atomic Research Centre, Mumbai.
- ▶ The departments of school have successfully organized international conferences, several webinars featuring eminent scientists and ATAL FDP on Rare-Earth Metals. The faculty members have published good number of research publications in reputed journals including Scopus and SCIE indexed with citation index more than 3000.
- ▶ Patent granted- 07 and published-10

Major Award or Recognition

- ▶ Sahitya Akademi Award
- ▶ Wipro Earthian Award
- ▶ Fellowship from University of Michigan
- ▶ Best paper awards to faculty members in national/international conferences
- ▶ Excellence award for technical presentation

Industry Interaction

Physics Department: is working with Kwaliti Photonics, Hyderabad, .NVIDIA, I-HUB and IISR, Pune. Chemistry Laboratory is a recognized testing centre for the petroleum products from the Ministry of Petroleum, Government of India. The department also undertakes an analysis of water samples, cement and other engineering materials

Departmentwide Faculty Strength



CHEMISTRY

08 Faculties holding Ph. D. degree and wide teaching experience. More than 100 research publications, 03 patents granted and 04 filed.

MATHEMATIS

Department has eleven Assistant Professors, seven of these are Ph.D., three are NET, SET and GATE qualified

More than 75 research paper publications and 02 patents granted.

HUMANITIES

4 faculty members with Ph.D. Degree, more than 80 Journal publications, 40 Books, 4 patents and over 100 conference presentations. The department of Humanities boasts a diversity in faculty in terms of them being poets, writers, social activists, psychologists, counsellors, HRD trainers, thinkers, philosophers, public speakers, quantum spiritual practitioners, Softs Skill Trainers, bloggers, theatre artists

They have not only been conferred with gold medals for their academic achievements but have been conferred with prestigious awards such as Nagpur Ratna, Best Teacher award by RTM Nagpur University, Honorary D.Litt. by Uruguay University, Divyangya Prerna Award by Govt. of Maharashtra, and Wipro's Earthian Award 2014-15.

Departmentwide Faculty Strength



PHYSICS

08 faculties holding Ph. D. degree, 01 is NET qualified, 03 patents granted, 04 are filed.

PHYSICAL EDUCATION

The department has five faculty members; NET/SET Qualified and with Ph.D. or registered. All the faculty are experienced in games & Sports and Participated at Intercollegiate and interuniversity level tournaments.

Student Clubs

The Department of Humanities has been instrumental in founding two students' clubs – REEF, the environment club and Readers' Reverie, the Literary club

Physical Education

Sports Club, NSS , NCC/Defence Forum

BEYOND ACADEMICS

Extension Activities: NSS,
NGO Visits, Spiritual
Health Programs

NSS:

The NSS Unit organises
village activities every year



NSS unit completed
SWACHH BHARAT
SUMMER INTERNSHIP

NSS unit adopted a Village
Sonkhamb (Under Gram
Panchayat Samiti Katol) for
three years and successfully
conducted Cleanness drive,
Education awareness program,
street play on govt scheme etc



NSS Unit Organizes Every Year Different Social activity:

- Blood donation drive
- Cleanliness Drive
- Health Check UP camps
- JUNOON: Activities for specially abled Children
- Cloth donation drive
- Tree Plantation
- Aids awareness Program
- Traffic awareness program
- Visit to Different Social NGO, Orphanage, specially abled school



NSS Unit initiate “SAHYOG” Center, A computer Learning center for underprivileged children

Strong Alumni Connect & Social Responsibility Culture

Fitness & Sports Zones



- Well-maintained hostels are available within the campus for residential students
- Boys' Hostel is located at the rear end of the campus
- Girls' Hostel is situated near the serene Ramdeobaba Temple for a peaceful and secure stay

On-Campus Hostel Facilities



- Well-equipped gymnasium and indoor games area for students' fitness and recreation
- Open playgrounds supporting athletics and team sports activities
- Dedicated courts for basketball, volleyball, badminton, and cricket to encourage active participation in sports

For More Info Visit

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For More Info Scan

