Jiwaji University Gwalior

विद्यया प्राप्यते तेजः

Vision 2030

Ethics + Environment + Education = Excellence

जीवाजी विश्वविद्यालय

PREAMBLE

As aptly said by Bharat Ratna Dr. Sarvepalli Radhakrishnan that "A life of joy and happiness is possible only on the basis of knowledge and science". Since true knowledge helps in, "...an all-round drawing out of the best in child and man-body, mind and spirit. [M. K. Gandhi, Harijan: July 31, 1937]. Where fourth industrial revolution was focused on dehumanization, the fifth one calls for bringing innovation and technology to the service of humanity. In this backdrop and taking stock of rapidly changing human life the University has set up its mission as "....lead the nation in research and education. We seek to do this in ways which benefit society on a national and a global scale. University strives to create knowledge, to open the minds of students to that knowledge, and to enable students to take best advantage of their educational opportunities. Jiwaji University embodies the spirit of excellence in teaching and research. Value creation through economic, social, and environmental development targeted to an increasingly global and multicultural world."

Learning is cultural by nature. Any education system can only thrive when it is rooted in its culture. Jiwaji University, Gwalior attempts to take the learning on the different level by aptly blending state-of-art pedagogy, technology, curriculum, infrastructure, skill-development and societal connect. With a focus on all round development of society the same is executed with focus on inclusion, access, equity and quality. The processes are set in a way that all of the referred components operate as a coherent set in place of a disjoint set.

Learning is a collaborative endeavour as well. The University regularly interacts with Institutes of eminence of the country and abroad. Faculties from top notch Universities regularly visit us to interact with faculties and students. Also, students and teachers of the University visit other University to interact and share their learning with their counterparts. Students and faculties of the Universities also conduct research with reputed research labs of the country and abroad. This knowledge sharing and building exercise has a far-reaching impact on expanding the horizons of knowledge and improving research foot prints of faculties and students.

The University also plays an important role in dissemination of knowledge to the various components of the society by way of various community-connect programmes on regular basis. It also plays an important role in ensuring parameters of quality education are adhered to in more than 400 affiliated colleges spread in seven districts.

With this frame work the Vision 2030 of Jiwaji University slates the roadmap to be followed and goals to be achieved during the next decade.

Jiwaji University- An Overview

Jiwaji University was established on May 23, 1964, through Madhya Pradesh Govt. Ordinance No. 15 of 1963. The then President of India, Late Dr. Sarvapalli Radhakrishanan laid the foundation stone of the University on December 11, 1964.The sprawling campus of over 225 acres of land, earlier known as the *Naulakha Parade Ground* of the Gwalior State, is a gracious contribution of the Scindia Family, in particular, *Kailashwasi Maharaja Shrimant Jiwaji Rao Scindia* and *Kailashwasi Rajmata Shrimati Vijayaraje Scindia*. The institution was christened after the name of *Kailashwasi Maharaja Shrimant Jiwaji Rao Scindia*. The Motto of the University, embedded in its logo, is '*Vidya Prapayate Tejah*'.

The Jiwaji University is a State funded affiliating University and its territorial Jurisdiction is spread over eight districts of Madhya Pradesh, viz., Gwalior, Bhind, Morena, Sheopur Kalan, Datia, Shivpuri, Ashok Nagar and Guna. Over a period of time the number of affiliated colleges have increased from 25 to 400, with a total enrollment of more than 03 lakh students. The campus of the University harbours administrative block, 31 University Teaching Departments (Schools of Studies), 6 Centres, a Central Library, Health Center, Sports Complex, 04 Hostels (boys and girls), *Charak Udyan* (for medicinal Plants conservation), Multi-Arts Complex and residential area (for both teachers and employees).

The University has made long strides to excel in teaching and research in science, humanities, social sciences and sports. The University supports excellence and innovation in academic programs which is evident from the list of innovative programmes that the University has initiated with the support of University Grants Commission, New Delhi, Departments of Biotechnology, Govt. of India, New Delhi and Ministry of Food Processing Industries (MEPI), New Delhi under following heads:

- UGS Special Assistance Programme (UGC–SAP)
- Department of Science and Technology–Funding for infrastructure - Development in Science & Technology (DST- FIST)
- Departments of Biotechnology- Human Resource Development Scheme
- UNESCO Centre - 'Trace Elements Research'
- Bioinformatics Centre - DBT
- Central Instrumentation Facility - RUSA
- Centres of Excellence – RUSA-World Bank Scheme

The University is amongst the visionary organizations that timely identifies the needs of the society and restructures its existing courses, initiates new programs/courses and designs new policies for better execution of the research projects. It also encourages the faculty to initiate innovative teaching and research to match the emerging trends of science, technology, socio-

economic and educational environment at global level. The University provides a vibrant academic environment for creation and dissemination of knowledge promoting interdisciplinary approach in both research and teaching, linkages with National and International Educational Organizations, training workshops, organization of international and national conferences, symposia, youth festivals, community connect programmes, awareness programmes, national sports events, exchange programmes and celebration of days of importance.

Further, this young and modern University that has grown to a well-established research and teaching institution in India, offers untraditional range of educational programs and research in Botany, Zoology, Mathematics, Chemistry, Industrial Chemistry, Physics, Electronics, Environmental Chemistry Biochemistry, Biotechnology, Microbiology, Neuroscience, Molecular & Human Genetics, Earth Science, Commerce, Management (in Various Specializations), Economics, Political Science, Ancient History, Tourism, Food Technology, Physical Education, Ethnobiology and many others. With the current leadership efforts, the faculties have started change their focus from interdisciplinary to trans-disciplinary research.

Research component, both, at postgraduation and Ph.D. level, directly contributes not only to the enrichment of knowledge but also broadens the horizons of students. The Jiwaji University has always promoted excellence in research and established a Centre for Translational Research to promote product-oriented research. Research projects funded by Government and non-Govt. Organizations are in progress.

The Jiwaji University has established collaboration with leading Institutions and R&D laboratories in India and abroad.With the efforts of the faculty and support from various agencies like UGC, CSIR,DAE,DBT, DOE, DRDO, DST, ICMR, ICHR, MPCST, CCRAS, MPCHT, CCRUM, MEPIincluding international funding agencies like Royal Society of Chemistry and UNESCO, the University is settingup high standards in education and research.

All faculty members of the University are well qualified and have national and international recognition in their areas of specialization.Several faculty members have been awarded nationally and internationally for their contributions in teaching & research and are publishing in in the journals with high impact factor of international repute.

The University has the tradition of keeping the syllabi of various courses up to date. Most of the syllabi are revised every year to incorporate latestupdates indisciplines being taught. There are postgraduate programs running on the campus which are unique in all respects. 'Earn while you learn' program is also initiated on the campus.

The central library besides a huge collection of books and manuscripts has the INFLIBNET facility that provides free access to more than 8000 International Journals. Computers and internet facilities are available to students in all the school of studies. The Bioinformatics infrastructure

facility of DBT has enabled us to develop a Bioinformatics Center. Smart Classrooms have been set up in several School of Studies.

The playground and gymnasium of the university are well laid, maintained as per the international standards. The School of Studies in Physical Education besides imparting training also organizes zonal and National sports events, championship meets, summer training programs for children& local residents and Centre for yogic Sciences arrange yoga classes for young & elderly. Our hockey (women) team won the first place amongst Indian Universities (2007-08) the Badminton (women) team won the first place amongst Indian Universities (2007-08). The Badminton (women) and Volleyball (men) teams stood second and fourth in the region respectively.

The Proctor's Office of the University efficiently maintains discipline, law and order in the campus and sorts out the grievance of students on the campus. It plays an effective role in ensuring "Zero Ragging Campus". The University has a proactive Women Development cell, Internal Complaints Committee and Anti ragging Committee which look into the grievances and complaints of all students and ensure gender sensitive and safe environment for all. The Women development cell also conducts many activities to encourage women to fight against any kind of bias and ensures gender equity in every respect.

The University has a students' 'Counselling and Placement Center'. The center helps students towards securing a better placement. Our students are working in almost all leading Institutions, Universities, R & D Organizations and business houses in India and abroad. .

The School of Studies in Distance Education is an active unit of the University. This center provides education via distance mode in several programmes through different centres. Besides this, our University is also hosting the centres of the Indira Gandhi Open University and Bhoj University to cater to the needs of urban as well as rural masses.For the benefit of SC/ST students, University runs a dedicated free coaching center for the IAS/PSC/ NET examination etc.

The University has succeeded in establishing a green campus with minimum carbon footprint. Several major infrastructural projects viz., Multi arts complex, creation and expansion of academic blocs, modern swimming pool are nearing completion and several other projects are in pipeline.

Mission, Vision, Values and Goals

Mission Statement

Jiwaji University aims to lead the nation in research and education. We seek to do this in ways which benefit society on a national and a global scale .University strives to create knowledge, to open the minds of students to that knowledge, and to enable students to take best advantage of their educational opportunities. Jiwaji University embodies the spirit of excellence in teaching and research .Value creation through economic, social, and environmental development targeted to an increasingly global and multicultural world.

Vision Statement

Our ability to enhance the well-being of the people by Educating, Creating Knowledge and Serving the Society by putting the knowledge to work with excellence. To advance the professional competence of youth and inculcate inthem the urge to recognize challenges as opportunities.

Values Quality in Education

We value quality in all processes of higher education. We realize that quality needs to be pervasive in all walks of educational processes. We realize that quality in processfinally culminates into quality in results. Therefore, we ensure quality in curriculum design, students' intake, appointment of teachers, interactions in class, research, students' activity, placements and examination, to name a few. We take due care to ensure quality in all constituents of higher education.

Reach and Equity

We believe that the fruits of higher education should reach to all constituents of the society equitably. We have created institutions through affiliations that offer a wide variety of courses in seven districts which are covered by the University. We also offer courses through distance education, IGNOU and BHOJ University – to ensure higher education accessible to those in remote villages. We offer scholarships that help students from weak background to continue their crust for higher education.

Quest for Knowledge

We believe a knowledge-based society can reach to more equitable, balanced and sustainable ends. We believe that every assumption should be visited in view of facts and logic. We design our pedagogy in a way that prepares students to ask the right questions, remains inquisitive, test assumptions and take decision based on facts. Teachers are encouraged here to publish in better impact factor journals and to take up enquires that shape the society at large.

ındian Value System

Indus civilization is one of the oldest civilizations in the world. India had one of the finest education systems at one point of time i.e. *Takshila* and *Nalanda*. We cherish and take pride in our value system that is grounded in self-actualization, introspection, non-materialism, equity,

Scientific enquiry. We have designed our courses and programmes in a way that nurtures students Indian ethos.

Community Connect

We greatly value our connect with society. The knowledge that has already been created in different disciplines is used to find appropriate solutions for the pressing issues being faced by the society and its various constituents.Additionally, new knowledge is created via research that contributes to Society directly or indirectly. It is our endeavour to find solutions using inter-disciplinary as well as multi-disciplinary approaches. The aim will be to contribute to creating a sustainable society.

Accountability to Society

We believe that we are accountable to society since we are using the resources provided by society to achieve the desired ends. We believe in transparent working where decisions and the processes are available for all the stakeholders.

Specific Plan

This 'Vision 2030' document takes a renewed approach, with "scholarship, innovation, and creativity" and provides action pathways with a holistic approach. The convergence of strategic requirements for infrastructure, academic and social needs for future growth of the present campus are: (a) strengthening and creation of physical infrastructure that compliments the present academic processes like conference, examination, hostels, and others, (b) creating quality academic and research programmes, (c) making learning more student-centric, (c) making University a true hub of inter-disciplinary learning, (d) creating direct connect with community by complementing the process of governance, (e) create a satellite campus at Gwalior. A list of activities that are part of immediate, short-term and long-term plan is listed below:

Short-Term –

- o *Teaching*
  - Appointment of quality faculty to the departments. There is an acute shortage of faculties in almost all the departments affecting negatively all academic and administrative processes;
  - Evolving an organic process of syllabus upgradation where every six months where at least 20 per cent syllabus is upgraded which include all salient developments in the field. The organic development of syllabus shall prepare students for the latest challenges being faced by various constituents of the society;
  - To associate Industry representatives in curricula design.
  - Strengthening of the library through e-books which students can access at their ease on their laptops as well as desktops 24hX7d;
  - Creating more smart classrooms in the University to take advantage of audio-visual aids to make the interaction more immersive and retainable;

To increase intra-disciplinary and inter-disciplinary options available to students under open credits. This will take learning from the narrow lanes of discipline to :

- broad planes of the inter-connected plane of knowledge. This will open gateways for students and researchers to look for a solution beyond their discipline;

- Integration of SWAYAM in the curricula of various courses. This will help students to opt for courses that are better dealt with at other places like IITs, IIMs and other prominent institutions. Also, they can go for courses that are not a part of the curriculum as an open credit;

- Strengthening Placement Cell of the University. The University shall ensure that students that are honed in a particular knowledge and skillset get a matching employment opportunity;

- Enhancing cafeteria-based education system where students can pick up right competencies to prepare themselves for future challenges. This way the learning processes will transform into student-centric where students will be at a driving seat taking necessary decisions concerning the competencies they need to acquire and sail their careers in the preferred direction;

- Improving the quality of interactions in the classrooms by including more skill-based activities, experiments, tours, co-teaching, case-studies and others;

- Introduction of more add-on employment-oriented courses. Such courses shall add relevant skillset to the quiver of the students;

- Inducting vocational courses at the college level so that students who do not wish to pursue higher education and are blessed with technical knack may shape their career in the relevant area;

- Introducing merit scholarships at all levels at all courses to reinforce performer students so that they do not lose their resolve and other students are also motivated to join the bandwagon;

- Establishing Learning Management System at the University so that the whole process becomes more predictive, interactive and outcome oriented. Creating such platforms will help students to online interact with teachers. This will help in constant mentoring of the students and the creative evolution of ideas;

- Strengthening the internship programme for students. Placement Cell will also take-up internship programme of the students as well. Students will be offered more than one opportunity to engage productively with companies to have better hands-on learning which in turn strengthen their theoretical base and prepare them to take up the job;

- To harness the potential of blended learning which includes online, active, team-based, role-playing, story-boarding and other formats. This will help in internalizing the learning;

- Strengthening Directorate of Distance Education of the University where it can offer employment oriented and need-based courses to the students of the hinterland;

- Creating programmes that help students from weak background to prepare for various Government and private sector jobs;

- Re-engaging retired teachers of the University in teaching and research. Such teachers can use their life-long learning to keep the journey of the University onin quest for knowledge;

o Research

- Securing more research grants from various agencies of the State and Central Government;
- Strengthening research-labs which help researchers and students to come out with relevant and innovative outcomes;
- Strengthening library through e-journals which help all the stakeholders viz. students, researchers and teachers, to keep abreast with the latest research and find the research gaps. Also, they will help in fine-tuning the concepts;
- Promoting innovations in teaching-learning processes by rewarding teachers for creating learning-outcome based activities;
- Creation of special scholarships for interdisciplinary research;
- Enhancing the quality of research work at the doctoral level by making publication in impact-factor journals mandatory;
- Procuring research software and databases;
- Encourage teachers to publish in journals with better impact factor journals;
- Encourage teachers to take more patents. ;
- More scholarships to students who are pursuing research in innovative areas;
- To create task-orientedcells in the University to promote innovation in all fronts;
- To create an IPR cell in the University that help teachers and researchers to secure intellectual property rights for their work.

o Collaboration

- To develop academic linkages with higher academic Institutions of National repute and Industrial houses in order to promote collaborative ventures in academic and semi-academic fronts;
- Promoting consultancy to industry among teachers. This shall help in furthering the bond between academia and industry. Also, it shall help in testing the applicability of knowledge developed at the University level;
- Inducting alumni and experts from the industry in the Board of Studies, Placement Advisory Board, Academic Planning and Evaluation Board and other committees where they can provide their rich input to further the cause of the University;
- Increasing collaboration of Entrepreneurship Development Cell (EDC) of the University and departments in the areas of curriculum framing, delivery, organizing workshops, competitions, extension lectures and courses. It shall help in upticking

o **Infrastructure**

- Making campus a solar campus to ensure its dependency more on renewable sources of energy;
- Creating a secure WIFI campus so that students remain connected to knowledge world 24hX7d;
- Making it a 100 per cent water harvested campus to ensure that the water that University uses is replenished;
- Further greening the campus to partially compensate the lost ecological balance outside the campus and making all constituents of the University healthy;
- Generating organic fertilizers (in-house vermicompost)employing biological waste of the campusfor plants in order to further sustainable campus;

o **Processes**

- Making a move towards paperless offices and processes to save more trees from falling;
- Creating an online platform for teachers to report their contribution in teaching, research and extra-curricular activities. So that the University can assist teachers in their development wherever needed;
- Instituting e-Governance for all process of the University so that students and other stakeholders, who are from pan-India, can interact and conduct their businesses from their remote locations. Additionally, all the office processes will become predictable, timely and transparent;

o **Extension**

- Connecting society to the knowledge building exercise of the University by taking-up more extension work;

Medium Term

o **Teaching**

- Introduction of modular education system where students can pursue their degree at their own pace and dovetail it with their competencies;
- Integration of Massive Online Open Courses (MOOCs);
- Motivating teachers to create courses for SWAYAM;
- Creation of Innovation Sandbox – Here students and mentors from the University and

- To create programmes with twinning arrangement where students of the University get an opportunity to complete their degrees at reputed educational institutions at India and abroad.

o **Research**

- Collaboration with reputed foreign universities and research labs in key areas of research where the University has requisite potential.
- Setting-up of chairs of excellence at various departments;
- Creation of a Social Innovation Lab that shall offer innovative and sustainable solutions to various problems of the society;
- Publications of quality journals by select departments with better research footprints;

o **Collaboration**

- Collaboration with the industry at national level;
- Collaboration with research labs at international level;
- Joint projects with industries;

o **Infrastructure**

- Developing satellite campus of the University;
- Watershed management of the University;
- Creating a self-reliant campus with respect to power using solar power.

o **Processes**

- Making all processes paper-free;
- Creating enabling processes for students where they can request for all services of the University on a mobile app;
- Making an affiliation process of colleges online.

o **Extension**

- To set-up a separate Directorate of Extension that continuously liaison with stakeholders and community.

Long-term

o   To be one of the aspirations academic campus for students, researchers and teachers alike to craft their careers at international level;

o   Broad-basing governance of the University by including more senior positions into the Executive Council of the University;

o   Broad-basing academic governance of the University by including people from industry and research agencies in academic bodies;

o   Enhancing the contribution of State-Government in terms of grants to the University;

o   To limit the Coordination Committee's role to make it advisory in nature to make University more autonomous;

o   Initiating more courses and departments that can attend to new emerging areas;

o   Making all departments of the University self-reliant.

Jiwaji University, Gwalior