



JHARKHAND Rai University Ranchi

Established by Jharkhand state legislature by
Jharkhand Act 03 of 2012 as per Section 2f of UGC act

2012-13



ANNUAL REPORT

www.jru.edu.in

This report is submitted to the Honorable Visitor His Excellency Governor of Jharkhand as well as to the State Government in accordance with sub-section 3 of section 46 and sub-section 4 of section 47 of Jharkhand Rai University Act 2011 (Jharkhand Act 03 of 2012).

This report was prepared under the direction of Board of Management and submitted to the Board of Governors for its approval.

The Board of Governors had approved the report in its meeting held on August 16, 2013 and directed the Registrar to submit the same to the Governor and State Government.

Best efforts have been put in to incorporate full and correct information

Registrar

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INTRODUCTION

The spirit of innovation, modernization and student centric teaching – learning approach is the corner-stone of academics at Jharkhand Rai University. We strongly believe that an interactive platform of teaching in an enabled and networked environment is the most effective way of learning. Through our many student-centric methodologies, we aim to promote the vital skills of inquiry and questioning, which exercise one’s thinking and capacity for discernment. We endeavor that our students discover their own strengths, gain experiential understanding, engage with critical and diverse thoughts, broaden their horizons through delving in different disciplines, and thereby expand their consciousness. Our flexible and modular credit based learning ensures that our students participate in the process of their own learning and also explore their wider range of interests along with pursuing their major courses.

At Jharkhand Rai University, we care about the quality of learning experience. Our academic programs are benchmarked against international norms and standards. Our courses are designed to give students an opportunity to apply their intelligence, creativity and leadership skills to the challenges of a technology-driven world.

At Jharkhand Rai University, we strive to initiate our students into research and enterprise, for we believe that while enhancing their understanding, our youth should also be dwelling on some of the most compelling challenges of contemporary society and apply their learning, energy and networks toward solving society’s most pressing and persistent problems. Our youth need to be change-agents for a better global order and at Jharkhand Rai University, they learn how to.

INFRASTRUCTURE

The University is currently functioning in a 25000 Sq Ft temporary premises located at Argora Chowk, Road No. 6, at Ashok Nagar, Ranchi 834002. The campus in-houses class rooms, labs and a 20 seat girls' hostel. The premises is well protected with male & female security guards and an eight camera CCTV network

The permanent site for the University is already been identified in Namkum – in between Tata Road and Ring Road where we have taken possession of 20 Acres of Land.

We hereby furnish existing infrastructure.

Jharkhand Rai University, at present, is operating from 25,000 sq. ft (built up area) building on 15,000 sq. ft plot in Ashok Nagar, the heart of Ranchi City.

The details of for the above are as follows:

A. Total No of class rooms: 10



B. Library:

Number of Books:	8399
Number of Titles:	3100
Photocopier :	1 no

C. Total No of Labs: 8

- Computer Lab
- Language Lab
- Mechanical Engineering Lab
- Engineering graphics Lab
- Engineering Physics Lab
- Engineering Chemistry Lab
- Electrical Lab
- Electronics Lab

Details of equipment/instrument in each lab are as follows:



1. Computer Lab

- Total Workstation – 40 with Networking (Pentium Dual Core with 2 GB DDR2 Ram)
- Linux Server – 01 (Intel Xeon with 4 GB Ram)
- Windows Server – 01 (Intel Xeon with 4 GB Ram)
- Linux Firewall – 01 (Intel Xeon with 4 GB Ram)
- Reliance Lease Line – 01 (1 Mbps)
- Scanners - 5

Wi-Fi Network for Students

2. Language Lab

- Total Students console – 20 with Networking (Pentium Dual Core with 2 GB DDR2 Ram)
- Teacher Console – 01 with Networking (Intel Xeon with 4 GB Ram)



Welding Table (M.S) [8x4x3.5]	1
M.s Flat(35x6) For Job Preparation 20 kg Approx	
M.S Sheet 16 swg	10k.g

Lab-2

Model of Babcock & Wilcox Boiler	1
Locomotive Boiler – Model	1
Lancashire Boiler – Model	1
Refregeration Test Rig – Model	1
U-Tube Manometer – Model	1

4. Engineering Graphics Lab

- Engineering drawing board with stand (20 in Nos)



3. Mechanical Lab

Lab -1

Descriptions	Qty.
U.T.M	1
Torsion Testing M/c	1
Pendulam Testing M/c	1
Worm & Worm Wheel Single	1
Winch Crab M/c	1
Model for Laws of Parallelogram	1
Model for Screw-Jack	1
Bench Vice No.3	1
Arc Welding M/C	1
Holder Pepsi	
Screen with B/W/glass	
Black / Dark goggles	
Welding Rod	05 pack
Hand gloves	02pack
Bench Grinder 6" With Stone	1
Hose pipe for gas welding	15+15
Oxy gas regulator	2
lighter	5
White goggles	30
Back Arestor	2+2
Hackshow Frames	30
Hackshow Blades	100
Gas Torch	2

5. Engineering Physics lab

• Metal bob	6
• Stop Clock	6
• Weightless thread	
• Retort Stand	6
• Sodium Vapor lamp (with transformer)	4
• Magnifying lens	10
• Traveling microscope	5
• Sprit level	10
• Newton's ring apparatus	4
• Grating	4
• Spectrometer	4
• Mercury Lamp	2
• Power Supply	5(0-9)V
• Stewart and Gee's apparatus	4
• Plug Key	20
• Ammeter	5
• Milli Ammeter	5

• Micro Ammeter	5
• Rheostat 15 (0-100 ohm) (0-1000 ohm) (0-5000 ohm)	
• Commutator	10
• Connection Wire	
• Prism 5 big equilateral face	
• Biprism	2
• Knife-edge	5
• Telescope	5
• Melde's Apparatus	4
• Lee's & disc Apparatus	3
• Galvanometer	10
• Voltmeter	10
• Potentiometer (ten meter wire)	2
• Jockey	3
• Battery (0-12)v, 2amps	5
• Resistance Boxes (1-10)k	3
• Screw Gauge	8
• Vernier Caliper	8
• Single slit	5
• Double Slit	5
• Grating holder	5
• Prism holder	25
• Optical bench	1
• Kater's Pendulum	2
• Searle's Apparatus	3
• Physical balance	2
• Digital balance (0-5)kg	2
• Weight box-gram	2
• Weight box-milligram	10
• Scissor	2
• Scale (metal)	2
• Scientific calculator	2
• Meter Scale	10
• Spirit lamp	5
• Thermometer (00c-1100c)	5
• Thermometer (00c-3000c)	5
• Bad conductor disc (ebomite)	3



6. Engineering Chemistry Lab

• Oswald viscometer	12
• Redwood viscometer No. 1	03
• Redwood viscometer No. 2	03
• Suspended level viscometer	03
• Stop watch	10
• Electronic weighing machine (up to 0.001g)	02
• pH meter	01
• Glass electrode	02
• Calomel electrode	02
• Digital conductivity meter	01
• Conductivity cell	02
• Thermometer (variable temperature)	05
• Hot plate	02
• Weighing balance	01
• Weight box	01
• Burette	12
• Burette stand with clamp	20
• Pipette (10ml)	15
• Pipette (25ml)	15
• Density bottle (20ml)	12
• Conical flask (250ml)	12
• Conical flask (250ml) with a glass joint	05
• Conical funnel	12
• Hirsh funnel	06
• Beaker (100ml)	12
• Beaker (250ml)	12
• Round bottom flask (250ml)	02
• Round bottom flask (500ml)	02
• Water bath	02
• Volumetric flask (100ml)	12
• Volumetric flask (250ml)	12

• Stopped bottle (250ml)	12
• Dropper	12
• Measuring cylinder (10ml)	02
• Measuring cylinder (50ml)	02
• Measuring cylinder (250ml)	01
• Measuring cylinder (500ml glass)	01
• Measuring cylinder (500ml plastic)	01
• Measuring cylinder (1000ml)	01
• Mortar & Pestle (small)	02
• Mortar & Pestle (large)	01
• Watch glass	12
• Reagent bottle (100ml)	12
• Reagent bottle (250ml)	12
• Reagent bottle wide mouth (100g)	12
• Reagent bottle plastic (250ml)	05
• Wash bottle plastic	05
• Test tube (20ml) Borosil	50
• Test tube brush	05
• Double walled (Pyrex) glass tube	05
• Iron wire gauze	12
• Tripod stand	10
• Test tube holder	10
• Filter paper	100
• Glass rod	
• Delivery tube	
• Corks	

7. Electrical Lab

- DC Motor with Break Drum
- 1 Phase Induction motor with break drum + control panel
- Ammeter
- Volt meter
- Multimeter (10ADC)
- Power factor meter
- Voltmeter 500v
- Multimeter (10A to 200Mili A)
- Multimeter (400MA)
- Tachometer
- DC/AC bridge circuit
- Variable Rheostat

- Temperature sensor panel
- Regulated power supply
- Voltmeter (0.12 v,0-30v)
- Ammeter (0-3A)
- Rheostat (variable resistance)
- 1-Q Transformer
- UPS power supply



8. Electronics Lab

- Rectifier and Filter
- Super Position
- basic Logic Gate
- Field effect transistor
- T & pie Attenuators
- Phase shift oscillator
- Study of Rectifier and amplifier
- Transistor characteristics
- Thevenin's & Norton theorem
- 4 bit Decade Counter
- Clipping and clamping circuits
- Pulse position modulation and demodulation
- Two port network parameter
- Op Amp characteristics
- Pulse width modulation and demodulation
- Pulse amplitude and demodulation
- Frequency Modulation & demodulation
- Tuned collector oscillator
- Zener regulator
- Wien bridge oscillator
- Transient response of Rlc Circuit

- Phase shift keying modulation and demodulation
 - Crystal oscillator
 - Op Amp As active filter
 - Pm Junction Diode
 - Single stage Rc Coupled CE Amplifier
 - Maximum Power transfer theorem
 - Amplitude modulation and demodulation
 - Single stage tuned amplifier
 - Analog signal sampling and reconstruction
 - Digital to analog convertor
 - 8 bit ADC (analog to Digital)
 - Single stage negative feedback amplifier
 - PS,D,T & JK flip Flop
 - OP AMP Parameter
 - OP AMP (Gain vs. Band width)
 - Function generator
- LCRQ Bridge
- 1 MHZ Function generator
- 1GHZ FREQ counter
- Digital ZC Trainer Model XPOLCOTF
- Regulated DC Power Supply
- Multiplexes and De-multiplexes
- Adder and subtracter
- 2band Radio receiver
- Encoder and decoder Module
- Study of module counter
- 8085 LCD trainer
- Antenna Trainer
- Regulated power supply
- Multiple power supply
- Sensor trainer model

STAFF'S PROFILE

The University has 51 employees including outsourced guards and house-keeping staff

Academic Staff (Total 20)

Dean Academics	1
Head / Director Engineering	1
Head Science Dept	1
Head Management	1
Head Ph.D Coordination	1
Faculty	15

Non Academic Staff

Librarian	1
Library Assistants	2
System Administrator	1
Lab Assistants	4
Admission Department	6
HR Department head	1
Administration head	1
HR / Administration support	6
Male Security Guards	3
Female Security Guards	2
Guards at Namkum site	4

STUDENTS' PROFILE

Being a start-up University in 2012, the University could enroll 44 students in different streams for the academic session 2012-13.

Students' Breakup

Total Students	44 (Male – 29, Female – 15)
Under Graduate	17
Post Graduate	14
Diploma	13

Category-wise Breakup

General / Open category	21
Scheduled Cast	4
Scheduled Tribe	8
OBC	11

ACHIEVEMENTS

Jharkhand Rai University, Ranchi awarded **“Best Private University for Women Empowerment”** by Dr. M M Pallam Raju, Union HRD Minister:

National education excellence award was organized by ASSOCHAM on 9th April 2013 in New Delhi. ASSOCHAM strongly believes that education plays a major role in country's economy. For the same reason the education institutes with excellence needs to be identified and motivated so that they can work hard for playing their role towards making our country a developed nation.

The program was inaugurated by Dr. M M Pallam Raju, Hon'ble Union Minister for Human Resource Development, Govt. of India. Speaking on the occasion he said just like the developed nations India is continuously trying that education can reach even the most remote place.

ASSOCHAM awarded 34 education institutes on this occasion which was organized at hotel Imperial at Janpath, New Delhi. Jharkhand Rai University, which is situated at Ashok Nagar of capital Ranchi, was awarded for “Best Private University for Women Empowerment”. Dr. Savita Sengar, Vice Chancellor of the University received the award in New Delhi. Currently many programs are going on for unprivileged girls from Jharkhand.

This award has been given to Jharkhand Rai University for its commitment for the empowerment of women. University runs a scholarship Scheme called “DreamZ which seeks to provide underprivileged girl students from disadvantaged socio-economic backgrounds from deep interiors of Jharkhand by offering full scholarship on their tuition fees. The program seeks to uplift these girls through quality education, so that they can make a difference in their own lives and contribute positively to the society at large. Under this scholarship the girls can opt any of the Undergraduate and Post Graduate Degree Programs offered by Jharkhand Rai University, Ranchi. The university is committed to impart free education to 250 such girls every year for its various Bachelors and Masters degree programs. In addition to this, University intends give skill training to 1500 girls from different parts from Jharkhand this year.



Best University award handed over to Vice Chancellor Dr. Savita Sengar by Dr. M M Pallam Raju, Union Minister HRD

INITIATIVES TAKEN BY THE UNIVERSITY IN SOCIAL SECTOR FOR THE WELFARE OF UNDERPRIVILEGED GIRLS

A. Dreamz Scholarship

To keep our commitment for the empowerment of Women of Jharkhand, we run a scholarship Scheme called “Dreamz”. It is a socio-educational initiative undertaken by a consortium of Universities where Jharkhand Rai University is a member, which seeks to provide underprivileged girl students from disadvantaged socio-economic backgrounds especially from deep interiors of Jharkhand, full scholarship on their tuition fees. The program seeks to uplift these girls through quality education, so that they can make a difference in their own lives and contribute positively to the society at large. Under this scholarship the girls can opt any of the Undergraduate and Post Graduate Degree Programs offered by Jharkhand Rai University, Ranchi.

Through this scholarship scheme, the consortium of Universities has educated over 2000 girls across India and from 22 countries across the world including Bhutan, Uganda, Zimbabwe, Venezuela, Vietnam, South Korea, Afghanistan, China, Mauritius, Tibet (Dharamsala), Bangladesh, Nepal et al. With the active support of a large number of Governments, NGOs, Embassies, Schools, Corporate Groups and Individuals, this initiative is uplifting many underprivileged girls globally through quality education and thereby economic empowerment

At our Jharkhand Rai University, Ranchi, 25 girls are already studying in Bachelors and Masters Degree program which includes students from foreign countries. We intend to admit additional 250 girls in

the forth coming academic year under this full scholarship. We recognize that such girls when given an equal opportunity can match or better their city counterpart

B. Adolescent Girls’ Empowerment program through Dept. of Social Welfare, Govt of Jharkhand

Jharkhand Rai University, Ranchi has been established with a vision to enhance education standards in Jharkhand, thus be a conscious partner for overall development of the State.

The University has a special emphasis and expertise on skill development and training. We would like to mention here that we have successfully conducted 5 days residential trainings of 1560 identified adolescent girls in 52 batches under SABLA Program of Social Welfare Department, Government of Jharkhand during the last financial year.

The five days session had a multi-facet approach where the girls were empowered with spoken English, soft skills, computer knowledge, etiquette and healthy life style. They were also trained by experts like a women Police officer on their civil rights and a Gynecologist on healthcare and hygiene

The University has already enrolled 11 eligible girls from the participants group to various professional courses under Dreamz Scholarship in which free education at University level will be provided to them.

Here is a brief archive of SABLA program

Session on Women Legal Rights & Self Defense by DSP Nisha Murmu



SABLA Training Program

Session On Personal Grooming



SABLA Training Program

Session On Women Health Issues by Dr. Deepawali Sinha



SABLA Training Program

Interactive Sessions



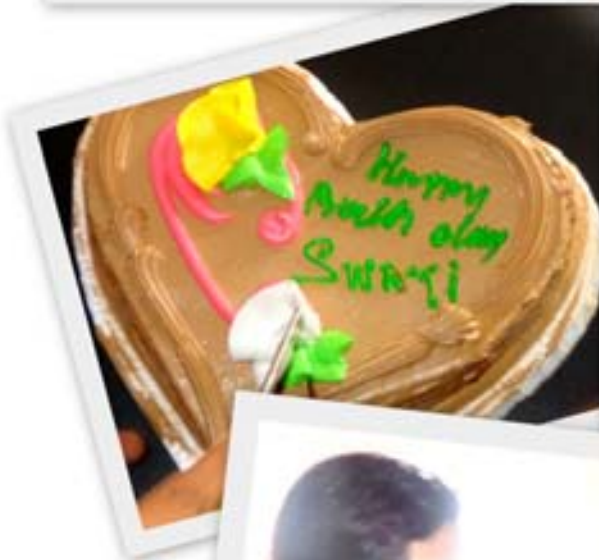
SABLA Training Program

If You Never Give Up You Cannot Fail Ever...



SABLA Training Program

Ice Breaking Session



SABLA Training Program

Certificate Distribution



SABLA Training Program

Cultural Fest



SABLA Training Program

Counselling Session



SABLA Training Program

Confidence Building Session



SABLA Training Program

Computer Awareness Session



SABLA Training Program

EVENTS CONDUCTED

a. Jharkhand Rai University successfully organized two Seminars during last one year *National Seminar on Education* on 27th & 28th October 2012 - two day national seminar on “Education – Imperatives for Change making Jharkhand a Knowledge hub” was inaugurated by then Chief Minister of Jharkhand Shri Arjun Munda. It was first of its kind for the state of Jharkhand when leading academicians, policy makers and industry associations came to the same platform not only to discuss different issues related to education in this mineral rich state but also to prepare the future roadmap to take education in Jharkhand to the next level.

Attached herewith a complete report on national seminar

International congress on Innovations in Science, Technology and Management (ISTM 2013) was organized on 3rd June 2013. The aim of the conclave was to bring corporate professionals, academicians, research scholars and students together on a single platform for an in depth discussion on the critical themes in the Science, Technology and Management areas. It provided a forum to Research Scholars and Engineering and Management students for sharing their work through Doctoral research paper competition and case study competition.



International congress on Innovations in Science, Technology and Management (ISTM 2013)



*International congress on
Innovations in Science, Technology and Management (ISTM 2013)*



*International congress on
Innovations in Science, Technology and Management (ISTM 2013)*

b. Guest Lectures

As part of students' empowerment activities, the University arranges many guest lectures by inviting Industry / Academia veterans. Following is the list of Guest lectures took place in 2012 - 13

Guest Speaker	Designation	Topic
Mr. Amarendra Kumar	AGM (CSR) Abhijeet Poer Ltd.	Clean Development Mechanism & Corporate Governance
Dr. SRP Shukla	CEO, Ranchi Mgmt. Association under aegis of AIMA, Ex Head Corp HRD, Mecon Ltd.	Career Planning
Dr. SP Singh	Ex VC, Vir Kunwar Singh University	Environment and Sustainable Development
Abhay Kr Sinha	Sr. DGM (HR) , Abhijeet Power Ltd.	Positive Attitude
Mr. Shivesh Kumar	Regional Manager Max Life Insurance	Convincing Skills
Mr. Sandeep Maheshwari	Founder & CEO of Images Bazaar	Last Life Changing Experiences- Part 1
Mr. Sandeep Maheshwari	Founder & CEO of Images Bazaar	Last Life Changing Experiences- Part 2
Md. Shamim Akhtar	Commercial Manager Awal Plastics, Bahrain	Relation between Integrity & Economic conditions of a country
Col. Rajesh	Colonel, Indian Army	Motivational Skills
Mr. Sandeep Maheshwari	Founder & CEO of Images Bazaar	An Inspirational Talk
Internal by Leena Shrivastav		Workshop on " Boosting The Team Spirit"
Mr. P Jagdev	Sr. Manager-Marketing NCCUIL (Nagarjuna Construction Company Urban Infrastructure Ltd.	Mock Interview & GD Session
Mahesh Gupta	Principal, Tool Room	Prospects of Diploma in Industries
Manoj Jaiswal	Asst Director, Mines & Geological, Govt. of Jharkhand	Mining Industry in Jharkand
Brajesh Pandey	Sr. Engineer, Abhijeet Power Ltd.	A brief Introduction to various aspects of Power Sector
Praveen Lakhani	GM- Engineering, Emcons	Introduction to Automation Sector
Deepak Kr. Sinha	Sr. Dept. GM, HEC	Company brief and insight in heavy engineering sector
Sudipto Garnayak	Sr Engineer, Rockwell Automation	Prospects in Rockwell Automation
Arvind Kumar	HR/Sr Engineer, Usha Martin	Career Planning and Management
DB Santra	Tata Power- Head Plant	Company Brief and insight into power sector
Amritanshu Prasad	ED, Adhunik Group	Ladder to Success
Amit Ranjan Sinha	GM-HR, Usha Martin ltd	Communication Skills in Organisation

- c. All India Management Association has organized its Regional level Quiz program on 16th March 2013 at University premises which was the preliminary round of its 9th National Quiz. Teams from 8 colleges have participated in the event.



All India Management Association AIMA quiz program

d. UDAN

UDAN is a free career counseling session meant for School students across Jharkhand. The University has organized UDAN in 102 schools across 24 districts of Jharkhand. UDAN has an elaborate video session covering following points

1. How to choose a career
2. Self awareness
3. Career Awareness

The session also has a quiz program, interactive Q/A session and price distribution

**UDAAN**



UDAAN

e. Seminars

The University organized career counseling seminars in multiple locations by including local resources, academicians and social leaders

The seminars emphasized importance on pursuing higher studies in Jharkhand without migrating to other states and be a part of overall development of the state.

**Seminar**



UDAAN

f. Faculty Development Program

A faculty development program was organized on 27th & 28th of Dec 2012 where Dr Shivendu Sinha, Professor, University of South California was the trainer

Topic: Contemporary Teaching Pedagogy

Following topics were dealt in the program

- Goals of teaching
- Effective teaching
- Strategic teaching
- Key inputs in teaching methodology
- How to make class interesting
- Key aspects of teacher & student relation
- Discussion on teacher as a thought dealer
- Feedback session



Dr. Shivendu Sinha handling FDP

g. Orientation Programs

Before batch start, the University organizes preliminary sessions and orientation programs for new admissions. The preliminary sessions include soft skills, communication skill, computer knowledge and role plays.

Whereas the orientation programs are little bit on the higher-side where we invite speakers from Industry, academics and civil service and make them interact with students on Industry demands, current affairs and general awareness on education, ethics, opportunities etc

(Orientation pictures 6 pictures). Foot note 1: Ms Mridula Sinha, IAS, Principal Secretary to Govt of Jharkhand handling orientation class. Footnote 2. Dr MJ Xavier, Director IIM Ranchi handling orientation class



Ms Mridula Sinha, IAS,
Principal Secretary to Govt of Jharkhand handling orientation class



Dr. M J Xavier
Director IIM Ranchi handling orientation class

ACADEMIC INITIATIVES UNDERTAKEN BY THE UNIVERSITY

Jharkhand Rai University offers multi-disciplinary global education at graduate and undergraduate levels. It is our belief that sound higher education requires a study of diverse subjects, which satisfy personal career, desires, development of broad foundation for subsequent learning and adaptation to new societal needs and maintains flexibility for moving into new areas of interest.

The academic programs at Jharkhand Rai University have accordingly been designed to help students develop the knowledge and capabilities needed to meet the challenges of today's society. They are armed with fundamental principles, habit of self-learning and the power that comes from thorough and systematic learning process.

The academic system of an educational institution forms the backbone of quality in academic delivery. It is not only the quality but also the fulfillment of the training needs and aspirations of the students to empower them to compete in the global market are of greatest significance. In keeping with the needs of multi-skilling and broad based knowledge along with the development of core competence, we at Rai University have adopted an academic system, which not only meets global standards, but is committed to prepare global citizens.

Jharkhand Rai University adopts choice based credit system in which students will have flexibility to choose subjects and time of examination within a frame work.

The University recognizes that many people have gained relevant knowledge and experience which can be applied to an academic curriculum. Therefore it allows students to receive credit for a subject by taking an examination only. A student who has not received previous instruction in a subject area can earn credit for the subject by passing an exam that assesses his/her

knowledge and skills in that subject area.

The University in keeping up with the developments in education across the world offers earning of credits by MOOCS. MOOCs is a massive open online course (MOOC) aimed at unlimited participation and open access via the web.

Transfer students are students from other universities/ institutions globally who can join Jharkhand Rai University for completion of their course leading to award of degree. Transfer students are given equivalent credits for prior courses pursued at universities/institutions recognized by government of that country or accredited by a competent international authority.

The university can assess the student in any mode and conduct the examination in any manner. The university reserves the right to conduct the examinations of a particular program in a semester, yearly or any other mode. The university may hold the examination of a particular course as many numbers of times as it may deem relevant.

Rather than marking system, the University adopts grading system to keep pace with International Standards.

Jharkhand Rai University offers a global approach to education and learning. At its faculties and schools the university provides a broad-based curriculum underscored by multi-disciplinary courses and cross-faculty enrichment. The learning experience is complemented by a vibrant campus life with avenues for artistic, cultural and sporting pursuits. JRU's transformative education plans to include programs such as student exchange, entrepreneurial internships at various Overseas Colleges, and double degree and joint degree programmes with some of the world's top universities which will offer students opportunities

and challenges to realize their potential. The teaching pedagogy at JRU is student centric (discussion mode). The interaction with students/ application oriented assignments & small group activities are strictly insisted upon. A structured lesson plan is also adopted.

The departments/schools at Jharkhand Rai University provide a broad based curriculum underscored by multi-disciplinary courses and cross-faculty enrichment. JRU's transformative education includes programmes such as student exchange, entrepreneurial internships at some of the world's top universities, offering students opportunities and challenges to realize their potential.

To enhance the enrollments and attain the target of 30%, it is important to reduce the drop outs in higher education especially those who are very good but could not pursue higher education because of economic necessity and hardships and had to take up employment. A sincere attempt has to be made to bring them into the higher education learning mode so that they are better empowered and can have a chance to seek better jobs. With the advent of Technology, High speed Internet, Computers in the furthest parts and interiors of India, it is now possible to reach out to these youths and adults wanting a better life for themselves and their families.

Another important aspect of this mission is that those who have the requisite experience and have done their best to self learn, must not be denied access to sit for exams for a bachelor's or master's degree especially in arts and commerce just because they could not join a university. It is also important that if they have learned on their own, they be given a chance to sit for their 1st, 2nd and 3rd year exams in a short period, of course with a provision that they pass each stage. Our country, our HRD ministry and UGC and all of us must be concerned that the person applying for and sitting for the exams is so qualified and passes the exams as per standard procedure. The time he/she takes to do that if

they have the requisite minimum three years of self learning after passing out of class 12 should be enough qualification to be allowed to sit for the exams one after the other in a short span of say three to six months. This method would recognize those aspirants that have done self study and feel themselves eligible for taking such examinations.

Keeping this in mind the Board felt that Jharkhand Rai University, which is in Ranchi and catering a lot to the Scheduled Castes and Scheduled Tribes should initiate a special program for such aspirants and professionals under University Online Learning mode.

Through this path breaking initiative, the university can enroll university aspirants and/or professionals having vast expertise, knowledge and experience in Online Learning undergraduate or postgraduate degree courses across the country and help such students to enhance their qualifications. University Online Learning should allow students to go at the pace that's right for them. It is well designed and gives plenty of opportunity to not only absorb the theories in the material, but to discuss it meaningfully and put it into practice.

The Board of Governors and The Board of Management proudly presented the achievements of Jharkhand Rai University over the past one year, which was full of awards and accolades and new innovative initiatives, enumerated as below.

Research Centre of Excellence (RCE): JRU has set up its own research center of excellence that is dedicated to research development and learning. Research activities are strategic and robust, and JRU is well-equipped for its research strengths in engineering, social sciences and natural sciences. Major research thrusts will be made in several fields such as quantum technology; interactive and digital media; engineering, social sciences and natural sciences. The University also strives to create a supportive and innovative

environment to promote creative enterprise within its community.

Dual Degree Programs: In order to enrich the professional education level of the students, Jharkhand Rai University is offering dual degree programs between different schools at both under-graduate and post-graduate levels. Jharkhand Rai University have laid special emphasizes on courses like BBA + MBA integrated program and B.Tech + MBA integrated program. The BBA + MBA integrated program has been designed keeping in mind the professional growth of a business student towards a successful career. In this program, the students study the discipline of business and management over a five-year period in order to build a concrete foundation in management skills and aptitude. This course intends to bring in more exposure of a wide variety of subjects & experiences, so that a student can better choose their area of professional specialization. Most importantly, a student has more time to absorb and develop the thinking and implementing styles of a dynamic business leader. The B.Tech + MBA integrated program is a dual degree course which blends technical skills with management skills.

State of Art Library and Labs: Organizations seek professionals with strong conceptual foundations, analytical skills and application abilities. Keeping this in mind Jharkhand Rai University aims to empower its students to optimize, expand and diversify their opportunities and skills with its state of the art facilities. Apart from classrooms, JRU has a set up a well defined library which is an essential component of JRU's research and education mission. The combination of carefully selected traditional and digital resources via browsing interface and supported by exceptionally fast response service, provides students community with a library that is worthy of this world class institution. The JRU's library is well equipped with precious books, Textbooks, Reference books, Periodicals and Journals. The library is enriched with digital facilities and

computer system. The Computer Lab at Jharkhand Rai University is equipped with Pentium based workstations that are connected to various statistical and analytical packages, project management software, business environmental simulation software amongst others, the students have access to this excellent facility complemented by twenty-four hour Internet connectivity.

Career Planning and Management Cell: Grooming students for placements and helping them make a fruitful career is the topmost priority after learning. Therefore, the university believes in beginning early to plan, guide and provide direction to the career path of all our students. It's robust and proactive - Career Planning & Placement Cell - works in coordination with the students inculcating in them a positive approach to work and providing them the solid backup of resources, so that they may acquire the necessary skills and vision to excel in their dream job.

Soft Skills: Understanding the importance of Soft Skills, it is imparted as a set of core courses to each student enrolled in any program. It comprises units as wide ranging as wellness and self-motivation to ethics, value system, social responsibility, entrepreneurship, team work, and communication skills, etc. Soft Skills as opposed to technical (hard) skills, greatly impact the working style of employees. Organizations today are looking for professionals who are not just good at technical aspect but are equally good at soft skills as these play an important part in maintaining relationships with their customers and developing a successful business. With this aim in mind, the soft skill development program focuses on elements of Personality Development that require changes in behavior and thinking along with improving employability skills of students. The course aims to provide the student the cutting edge to successfully work in a highly competitive and dynamic work environment. The modules for this program are designed and developed based on inputs from

academicians and learned people from the industry.

Application Oriented Learning: AOL is one of the distinctive AOL is one of the distinctive features characterizing education at JRU. All courses are designed and delivered to relate theoretical concepts to real time situations so that the academics blend perfectly with the vocation. Curriculum Support Material (CSM) JRU recognizes the need of going beyond curricula for deep and thorough understanding. CSM corresponds with those additional requirements. JRU-CSM includes -

- Case materials for case analysis and presentation
- Project Inputs for doing term project
- Role play material for group performance and presentations
- Budget document for analysis
- Corporate reports on macro parameters
- Reports of CII, FICCI, BNCCI and other relevant organizations
- World Bank report
- WTO report
- RBI and SEBI reports

Increasing Gross Enrolment Ratio: Apart from AOL we also need to see that those who have the requisite experience and have done their best to self learn, must not be denied access to sit for exams for a bachelor's or master's degree especially in arts and commerce just because they could not join a university. Education is the key to inclusive growth and empowerment of a large section of the population. As an emerging knowledge hub, India's foremost focus ought to be on increasing Gross Enrolment Ratio (GER) in higher education. It is important to reduce the drop outs in higher education especially those who are very good but could not pursue higher education because of economic necessity and hardships and had to take up employment. A sincere attempt has to be made to bring them into the higher education learning mode so that they are better empowered and can have a chance to seek better jobs. All stakeholders must be

concerned that the person applying for and sitting for the exams is so qualified and passes the exams as per standard procedure. Therefore it was decided that if these students have learned on their own, they should be given a chance to sit for their first, second and third year exams in a short period, of course with a provision that they pass each stage. This method would recognize those aspirants that have done self study and feel themselves eligible for taking such examinations.

Online Access: Keeping this in mind Jharkhand Rai University, which is in Ranchi and catering a lot to the Scheduled Castes and Scheduled Tribes has initiated a special program for such aspirants and professionals under our online learning mode. With the advent of technology, high speed internet, computers in the furthest parts and interiors of India, it is now possible to reach out to these youths and adults wanting a better life for themselves and their families.

Women's Training Vocational Program: Higher Education has never been and will never be purely about gaining a qualification. Apart from enriching knowledge and skills in a chosen discipline learning is greatly concerned with building a positive attitude and a set of values that you as a person and as a professional will need throughout your life. Women face a multitude of barriers in accessing skills and productive employment, remaining on the job due to effect of globalization or otherwise and advancing to higher level jobs, as well as returning to the labour market after a period of absence spent, for example, in raising children. The university aims to provide equal access for women to skill development and employment. It adopts proactive measures that overcome barriers and facilitate participation, such as hostels for women, scholarships, transport, training materials and loans, on a large scale. Furthermore, the Women's Vocational Training Programme at Jharkhand Rai University provides training facilities exclusively for women, so that they can obtain skills with high wage and self-employment potential. More importantly, in order to

promote skills and employability of women, the sectors which employ a large number of women are identified from time-to-time. These may include construction, home-based traditional crafts or piece rate work, financial and health service as well as agricultural sectors.

Scholarships: The provision of scholarships and awards is another important aspect of the overall strategy of Jharkhand Rai University. In fact, Jharkhand Rai University is among the few universities that offer such a large number of scholarships. Students at Jharkhand Rai University receive 50% to 100% scholarship for recognized merit. More unique are the awards of partial to full fee waivers through a merit-cum-need based JRU test and interview.

Industry Visits

Jharkhand Government Mini Tool Room and Training Centre, Ranchi:

As part of the curriculum, an Industry visit was organized for all the students of Jharkhand Rai University to Jharkhand Government Mini Tool Room and Training Centre, Ranchi on 28th November '12. The Principal of the Institute Mr. M.K.Gupta appraised them about various long, medium and short term ongoing courses. The institute was established by Department of industries, Govt. of Jharkhand with the assistance of Govt. of India. The students visited shop floors and learned about working of various machines. The centre is having training & production wings equipped with latest range of machine tools

procured from global market including CAD/CAM and sophisticated CNC Machines, ultra modern class room with latest teaching aids. Apart from training activities the centre is also acting as a hub for various small, medium, large scale industries and providing consultancy in design and manufacturing.

HEC, Ranchi:

A group of 44 students from Jharkhand Rai University, Ranchi along with 4 faculty members visited HEC plant on 21st February '13 for study tour. Mr. Ramji, Senior Manager Administration and H.R, gave an introductory lecture and briefed about the plant, products and safety needed inside the plant. Safety Manager also described in detail about the safety rules, safety precautions and dos and don'ts inside the premises. The students visited different departments and learned about the working of different machines. For them it has been a very enriching experience for having first hand information about heavy engineering product and production plant.

Journals

The University has initiated the publishing of two journals - one on Technology, Research and Innovation and the other on Management

The first issue of Rai Journal of Technology Research and Innovation was published on June 4, 2013.

Attached herewith a copy of the Journal



Releasing Rai Journal of Technology Research and Innovation



JHARKHAND
Rai University
Ranchi

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