



SARALA
BIRLA
UNIVERSITY

ANNUAL REPORT 2022-23



SARALA BIRLA UNIVERSITY

Birla Knowledge City, P.O.-Mahilong, Purulia Road, Ranchi, Jharkhand - 835103, India
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The Birla Legacy



Education is a meaningless ritual unless it can mould the character of student and give them values of life.

- Dr. Sarala Devi Birla



सरला बिरला विश्वविद्यालय, रांची
SARALA BIRLA UNIVERSITY, RANCHI

VISION & MISSION

Our Vision



To build an egalitarian global society based on national integrity, equality, social justice, secularism, freedom & fraternity, international understanding and scientific approach to the problems of the society, as enshrined in the constitution of India through various modes of teaching-learning process and supported by curricular and co-curricular activities.

Our Mission



To Develop Well-Motivated Global Leaders who will be Intellectually Competent, Morally Upright, Socially Committed, Spiritually Inspired and 'स्वान्तः सुखाय' to propagate the Philosophy of 'वसुधैव कुटुम्बकम्'.

V VC's OVERVIEW

Prof. Gopal Pathak
Vice Chancellor



With great pride, I would like to share with you our progress and achievements during the year, as well as our plans for the future. Despite the unprecedented challenges caused by the pandemic, our university has remained steadfast in its commitment to academic excellence and has continued to strive towards our vision of becoming a world-class institution.

During the academic year 2022-2023, we made significant strides in our academic programs, research, infrastructure development, and student engagement. We expanded our course offerings in various fields, including engineering, applied sciences, management, social sciences, humanities, nursing, performing and fine arts, and yoga & naturopathy, to meet the demands of the industry and the changing global scenario. Our faculty members were actively engaged in research and publication activities, resulting in a rise in the number of research publications in journals.

We also established an Innovation and Entrepreneurship Cell to encourage our students to think creatively and turn their ideas into successful ventures. We collaborated with various organizations to provide our students with internships and industry exposure, enhancing their employability. Moreover, we made significant progress in infrastructure development by constructing new buildings, upgrading our laboratories and libraries, and installing modern technology and equipment to facilitate teaching and research.

Our faculty members continued to be the backbone of our academic excellence. We recruited several new faculty members, including some of the best names in academia, during the year, which further strengthened our academic team. Our students also excelled in various academic and co-curricular activities and participated in several state and national competitions, showcasing their commitment to social causes.

As we look to the future, we are determined to continue our efforts to make Sarala Birla University a premier institution of higher education and research. We will focus on enhancing the quality of our academic programs, research output, and industry partnerships. We will continue to invest in our infrastructure, technology, and faculty development to create a nurturing environment that enables our students to realize their full potential and contribute to society. As part of this endeavour, SBU has signed an agreement with the University of California, Berkeley to offer a visiting student program that will provide our students with invaluable educational exposure.

In conclusion, I would like to extend my sincere gratitude to the Honorable Chairperson, Smt. Jayashree Mohta; Honorable Pro Chancellor, Sri B. K. Dalan; Honorable Member of BOG, Sri Anant Jatia, Dr. Pradeep Varma and other esteemed members of the board, as well as our dedicated faculty members, committed staff, and students, for their unwavering support and contributions to the growth of SBU. I also express my heartfelt thanks to our stakeholders, including parents, alumni, industry partners, and the government, for their continued support and encouragement.

Thank you.

Sincerely,
Prof. Gopal Pathak
Vice Chancellor
Sarala Birla University

GOVERNING BODY

CHAIRPERSON



Smt. Jayashree Mohta
Chancellor
Sarala Birla University, Ranchi
Hon'ble Chairperson,
Bharat Arogya & Gyan Mandir, Kolkata, India

MEMBERS



Sri B. K. Dalan
Pro Chancellor
Sarala Birla University, Ranchi
Hon'ble Secretary,
Bharat Arogya & Gyan Mandir,
Kolkata, India



Prof. Gopal Pathak
Vice Chancellor
Sarala Birla University,
Ranchi



Dr. Pradip Varma
Chief Executive Officer (CEO)
Sarala Birla University
Member,
Bharat Arogya & Gyan Mandir,
Kolkata, India



Sri Rahul Purwar, IAS
Secretary
Department of Higher,
Technical Education &
Skill Development, Jharkhand



Sri Hassan Gani
6 Court Close,
St. Johns Wood Park,
London, NW86NN, UK



Sri Anant Jatia
Greenland Investment Management
C-3 Paragon Center,
Pandurang Budhkar Marg, Worli,
Mumbai – 400013

MEMBERS



Prof. Vijay Pandey

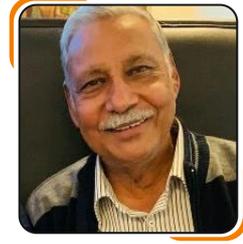
VC (In-charge)

Jharkhand University of Technology,
Ranchi



Prof. Vishnu Priye

Director,
IIIT, Ranchi



Dr. P. S. Bhatnagar

Former Director,
BKBIET, Pilani, Rajasthan



Sri Manish Kumar

Director,
NAEP Ltd., Ranchi



Sri Deepak Banka

FCA

MEMBER SECRETARY



Prof. Vijay Kumar Singh

Registrar

Sarala Birla University, Ranchi

BOARD OF MANAGEMENT

CHAIRPERSON



Prof. Gopal Pathak
Vice Chancellor
Sarala Birla University,
Ranchi

MEMBERS



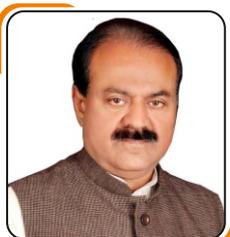
Sri B. K. Dalan
Pro Chancellor
Sarala Birla University, Ranchi
Hon'ble Secretary
Bharat Arogya & Gyan Mandir,
Kolkata, India



Dr. Pradip Varma
Chief Executive Officer (CEO)
Sarala Birla University
Member
Bharat Arogya & Gyan Mandir,
Kolkata, India



Sri Rahul Purwar, IAS
Secretary
Department of Higher,
Technical Education &
Skill Development, Jharkhand



Sri Sunil Singh
Hon'ble MP
Chatra, Jharkhand



Sri Jayant Sinha
Hon'ble MP
Hazaribagh, Jharkhand
Chairman of the standing committee for finance,
Parliament of India



Sri J B Tubid
Former Home, Cabinet &
Revenue Secretary
Government of Jharkhand

MEMBERS



Sri Deepak Banka
FCA



Prof. Shridhar B Dandin
Dean (Engineering and Applied Science)
Associate Professor, Department of
Computer Science and Engineering,
Sarala Birla University, Ranchi



Dr. T. P. Barnwal
Former Regional Dy. Director,
Health Services
Government of Jharkhand &
President, Jharkhand State
Pharmacy Council



Sri Ajay Kumar
Manager (P&A)
Sarala Birla University,
Ranchi



Dr. Sanjeev Kumar
Assistant Professor
Department of Electronics &
Communication Engineering,
Sarala Birla University, Ranchi



Dr. Ria Mukherjee
Assistant Professor
Department of English,
Sarala Birla University, Ranchi

MEMBER SECRETARY



Prof. Vijay Kumar Singh
Registrar
Sarala Birla University, Ranchi



- **Overview**
- **Eligibility Criteria**

Admission

Faculty Wise & Course Wise Admission Record After Cancellation :: Session 2022-23						
Sl. No	Faculty Name	Program Name	Program Wise No. Of Students	Faculty Wise No. Of Students		
1	Faculty Of Applied Sciences	B.Sc (Hons.) Mathematics	8	8		
2	Faculty Of Business Management	BBA-Capital Market	18	540		
3		BBA	420			
4		MBA	96			
5		Ph. D.-Management	6			
6	Faculty Of Commerce	B.Com (Hons.) Accounts	182	208		
7		B.Com (Hons.) E-Commerce	14			
8		B.Com (Hons.) Taxation	7			
9		M.Com in Accounts & Taxation	5			
10	Faculty Of Engineering & Computer Sciences	B.Tech in Civil Engineering	6	896		
11		B.Tech in Civil Engineering (Lateral Entry)	14			
12		B.Tech in Computer Science Engineering	181			
13		B.Tech in Computer Science Engineering (Lateral Entry)	34			
14		B.Tech in Electrical & Electronics Engineering	6			
15		B.Tech in Electrical & Electronics Engineering (Lateral Entry)	17			
16		B.Tech in Electronics and Communications Engineering	2			
17		B.Tech in Electronics and Communications Engineering (Lateral Entry)	5			
18		B.Tech in Mechanical engineering	1			
19		B.Tech in Mechanical engineering (Lateral Entry)	4			
20		BCA	415			
21		Diploma in Civil Engineering	15			
22		Diploma in Civil Engineering (Lateral Entry)	6			
23		Diploma in Computer Science Engineering	55			
24		Diploma in Computer Science Engineering (Lateral Entry)	4			
25		Diploma in Electrical & Electronics Engineering	16			
26		Diploma in Electrical & Electronics Engineering (Lateral Entry)	12			
27		Diploma in Mechanical engineering	7			
28		Diploma in Electronics and Communications Engineering	4			
29		Diploma in Mechanical engineering (Lateral Entry)	11			
30		M.Tech in Computer Science & Engineering	1			
31		M.Tech in VLSI	1			
32		MCA	76			
33		Ph. D. in Engineering	3			
34		Faculty Of Humanities & Linguistics	B.A. (Hons.) English		76	85
35			M.A. English		9	
36		Faculty Of Social Sciences	B.A. (Hons.) Economics		16	17
37			B.A. (Hons.) Economics-CTS		1	
38		Faculty Of Yoga & Naturopathy	Certification Course in Yoga Online		1	12
39	B.Sc in Yogic Science		2			
40	M.Sc in Yogic Science		9			
Total			1766	1766		

MODE OF ADMISSIONS

SBU, Ranchi offers two modes of admission for the convenience of the students and parents.

Online Admission

Students from remote locations who are unable to visit campus physically have the privilege to complete entire admission process in online mode. Students are provided with admission link <https://admission.sbu.ac.in> by dedicated counsellor (Link is also available on our website) who facilitates students throughout the admission process and beyond.

Offline Admission

Considering that a number of people are still untouched by digital literacy, SBU also accepts admission in offline mode. Students/Parents can visit the campus, consult with any one of our councillor and complete the entire process in offline mode.

Scholarship Scheme

1. General Scholarship Details

Sl. No	Scholarship Type	Scholarship
1	Son/Daughter, Grand Son/Grand Daughter of freedom fighters.	10% on Tuition fee only for all semesters
2	Son/Daughter of Armed/Para-Military forces.	15% on Tuition fee only for all semesters
3	Son/Daughter/Spouse of BAGM UNITS Employees	25% on Tuition fee only for all semesters
4	Sarala Birla Public School Students / Sarala Birla University	25% on Tuition fee only for all semesters
5	Students with differently able.	25% on Tuition fee only for all semesters
6	Kashmiri Migrant Students.	15% on Tuition fee only for all semesters
7	Sports (National)	10% on Tuition fee only for all semesters

Note: The above Scholarship schemes are only applicable to the students who produce original and valid document proof at the time of Counselling.

Scholarship schemes are not applicable on Hostel Fee.

Scholarship will be applicable on tuition fee in all the semesters.

Students availing any of above Scholarship will not be eligible for Internal Scholarship.

Scholarship scheme are as per SBU norms.

2. Scholarship Details for Diploma / UG / PG Courses

In the pursuit of attaining overall excellence, we are providing scholarship for the meritorious students as per details furnished below.

Sl. No	Scholarship Type	Criteria	Scholarship
1	Merit scholarship	95% marks or above in qualifying examination & Outstanding performance in PI	50 % on Tuition fee
2	Merit scholarship	90% marks or above in qualifying examination & outstanding performance in PI	25 % on Tuition fee
3	Merit scholarship	80% marks or above in qualifying examination & outstanding performance in PI	20 % on Tuition fee
4	Merit scholarship	70% marks or above in qualifying examination & outstanding performance in PI	10 % on Tuition fee

Scholarship will be applied on producing documents of last qualified exam.

Scholarship schemes are not applicable on Hostel Fee.

Scholarship will be applied on 1st year i.e. Semester I & II.

Scholarship provided at the time of admission will be subject to verification of original documents in Counselling.

Scholarship scheme are as per SBU norms.

3. Internal Scholarship Details for Diploma / UG / PG Courses

In the pursuit of attaining overall excellence, we are providing scholarship to the performers in Semester examinations of Sarala Birla University.

Sl. No	Scholarship Type	Criteria	Scholarship
1	Merit scholarship	First 10% Students out of top 20% in Semester Exam	25% on Tuition fee
2	Merit scholarship	Second 10% Students out of top 20% in Semester Exam	10% on Tuition fee

Scholarship will be applicable only for one consecutive semester.

Scholarship schemes are not applicable on Hostel Fee.

Scholarship Is valid only for One Semester.

Scholarship scheme are as per SBU norms.

Eligibility Criteria		
COURSES	BRANCH & SPECIALISATION	Eligibility Criteria
B.A. (Hons.)	English	The student should have passed (10+2) qualifying examination or equivalent with a minimum of 40% Marks (35% in case of candidates belonging to reserved category) and English should be one of the subjects.
	Economics	
	Sanskrit	
BBA	HR	The student should have passed (10+2) qualifying examination or equivalent with a minimum of 40% Marks (35% in case of candidates belonging to reserved category) and English should be one of the subjects.
	Digital Media & Marketing	
	Banking Financial Services & Infrastructure	
	Retail & E-commerce Management	
	Logistics & Supply Chain Management	
BBA-Capital Market		The student should have Passed (10+2) qualifying examination or equivalent with a minimum of 40% Marks (35% Marks in case of candidates belonging to reserved category) and English should be one of the subjects.
BCA		Passed (10+2) or equivalent with a minimum of 40% (35% in case of candidates belonging to reserved category) and English should be one of the subjects.
B.Com (Hons.)	Accounts	The candidates should have passed Senior Secondary (10+2) Examination from any recognized Board/University with at least five subjects including English as one of the subjects obtaining at least 40% marks in Science & Commerce (35% in case of candidates belonging to reserved category).
	E-Commerce	
	Taxation	
B.Sc (Hons.) Mathematics		The student should have passed 10+2 examination with Physics and Mathematics as compulsory subjects along with one of the Chemistry/ Biotechnology/ Biology/ Technical Vocational subject. Obtained at least 45% marks (40% in case of candidates belonging to reserved category) in the above subjects taken together. Students appearing in (10+2 examination) may also apply.
Bachelor of Yoga & Naturopathy		The student should have passed (10+2) qualifying examination or equivalent with a minimum of 50% Marks (45% in case of candidates belonging to reserved category). Students appearing in (10+2 examination) may also apply for admissions.
B.Tech	Civil Engineering (Urban Planning & Management & Construction Technology & Management)	The student should have passed 10+2 examination with Physics and Mathematics as compulsory subjects along with one of the Chemistry/ Biotechnology/ Biology/ Technical Vocational subject. Obtained at least 45% marks (40% in case of candidates belonging to reserved category) in the above subjects taken together. Students appearing in (10+2 examination) may also apply
	Computer Science Engineering (Computer Science & Information Technology, Block Chain Technology & Information Technology, Artificial Intelligence & Machine Learning, Data Science & Cloud Computing & Internet of Things & Cyber Security)	
	Electrical & Electronics Engineering (Renewable Energy & Power Electronics)	
	Electronics and Communications Engineering (Robotics & Drone & Renewable Energy)	
	Mechanical engineering (Automotive Technologies & Mechatronics)	
B.Tech (Lateral Entry)	Civil Engineering	Passed Diploma examination with at least 45% marks (40% in case of candidates belonging to reserved category) in appropriate branch of Engineering and Technology. OR Passed B.Sc. Degree from a recognized University as defined by UGC, with at least 45% marks (40% in case of candidates belonging to reserved category) and passed 10+2 examination with Mathematics as a subject.
	Computer Science Engineering	
	Electrical & Electronics Engineering	
	Electronics and Communications Engineering	
	Mechanical engineering	
Diploma	Civil Engineering	The student should have passed 10th examination and has obtained at least 45% marks (40% in case of candidates belonging to reserved category) in the above subjects taken together. Students appearing in (10th examination) may also apply
	Computer Science Engineering	
	Electrical & Electronics Engineering	
	Electronics and Communications Engineering	
	Mechanical engineering	
Diploma (Lateral Entry)	Civil Engineering	10+(2 years ITI) with appropriate Trade in that order shall be eligible for admission to Second Year Diploma Course(s) of appropriate Programme. Or 12th Science (with Mathematics as one of the Subject) or 12th Science with Vocational OR 12th Science with Technical.
	Computer Science Engineering	
	Electrical & Electronics Engineering	
	Electronics and Communications Engineering	
	Mechanical engineering	
Diploma in Yoga & Fitness Trainer		Passed 10th Std./SSC examination. Obtained at least 40% marks in the qualifying examination.
MBA	HR	Passed Bachelor's Degree of minimum 3 years duration. Obtained at least 50% marks (45% in case of candidates belonging to reserved category) in the qualifying examination.
	Digital Media & Marketing	
	Banking Financial Services & Infrastructure	
	Business Analytics	

M.Com	Accounts	50% marks in aggregate in B.Com, BBA (any stream) (40% in case of candidates belonging to reserved category)
M.Tech	Computer Science & Engineering, Thermal Engineering, Structural Engineering, Environmental Engineering, Construction Technology & Management, Control System, Power Systems, Signal Processing & VLSI	50% marks in aggregate in B. Tech (any stream) from a recognized university. (40% in case of candidates belonging to reserved category)
M.A.	M.A. Economics	Candidates who have pursued a BA in English or equivalent degree with a minimum overall aggregate of 50% are eligible. / Students with a bachelor's degree in any subject and minimum 50% score can apply for a master's in
	M.A. English	
M.Sc. in Yogic Sciences		Minimum Graduation or Equivalent
MCA		Obtained at least 50% marks in the qualifying Examination OR Passed B.Sc./ B.Com./ B.A. with Mathematics at 10+2 Level or at Graduation Level. (40% in case of candidates belonging to reserved category)
Ph. D	Engineering	a) Candidates possessing M.Tech./B.Tech./M.E./M.Sc.(Engg.)/M.Sc /MCA / MBA / MA or equivalent Degree in relevant branch from a recognized University with minimum 55% marks or 6.0 CGPA on a ten point scale in the qualifying examination are eligible to apply for admission in the relevant departments. b) Sponsored candidates must have minimum of two years of professional work experience, besides fulfilling the above criteria. In addition, such candidates should have valid sponsorship at least for three years.
	Commerce & Management	
	Humanities	



- **Examination Report**

E Examination

The examinations were scheduled as per the academic calendar and examination calendar. The students themselves register for the examination of regular courses and backlog courses and examination were scheduled for only those courses in which the students were registered.

The Program-wise details of the number of students graduated from the University in 2022-23 academic session are given below:

Program	Admission Batch	Total Pass-out Students
MBA	Admission Batch 2021	42
M.Com	Admission Batch 2021	4
BBA	Admission Batch 2020	169
BBA CM	Admission Batch 2020	11
B.Com (H) Accounts	Admission Batch 2020	106
MA English	Admission Batch 2021	3
BA (H) English	Admission Batch 2020	62
M.Sc. in Yogic Science	Admission Batch 2021	6
B.Sc. in Yogic Science	Admission Batch 2020	5
MCA	Admission Batch 2021	34
BCA	Admission Batch 2020	85
B.Tech CSE	Admission Batch 2019 [Including Lateral]	49
B.Tech CE	Admission Batch 2019 [Including Lateral]	12
B.Tech EEE	Admission Batch 2019 [Including Lateral]	8
B.Tech ME	Admission Batch 2019 [Including Lateral]	16
B.Tech ECE	Admission Batch 2019 [Including Lateral]	4
Diploma CSE	Admission Batch 2020 [Including Lateral]	27
Diploma CE	Admission Batch 2020 [Including Lateral]	22
Diploma EEE	Admission Batch 2020 [Including Lateral]	8
Diploma ME	Admission Batch 2020 [Including Lateral]	15



- International/National Exchange and Academic Collaborations
- Research and Publications
- Extra-Curricular Activities
- Special Initiatives
- New Facilities & Infrastructure Overview
- Community Outreach through NSS

International/National Exchange and Academic Collaboration

INTERNATIONAL COLLABORATION



ACADEMIC COLLABORATION

Sr.No.	Organization	Logo
1.	BIT, Sindri, Jharkhand	
2.	MSME Tools Room, Ranchi	
3.	IIIT, Ranchi, Jharkhand	
4.	IIRS, ISRO, Dehradun	
5.	Shatan Ashram, Dumka, Jharkhand	
6.	N+I Engineering Institutes, France	
7.	Ridge, Ranchi, Jharkhand	
8.	Jain Vishwa Bharti Institution, Nagour, Rajasthan	

Sr.No.	Organization	Logo
12.	Central University of Jharkhand	
13.	MSME Technology Centre, Jamshedpur, Jharkhand	
14.	Jharkhand University of Technology, Ranchi, Jharkhand	
15.	University De Nantes, France	
16.	IIT, Kharagpur, Odisha	
17.	Chhatisgarh Swami Vivekanand Technical University	
18.	Vivekananda Global University, Jaipur, Rajasthan	
19.	Centurion University of Technology & Management, Odisha	
20.	National Institute of Technology, Jamshedpur, Jharkhand	
21.	MIT-World Peace University, Pune, Maharashtra	
22.	RTC Institute of Technology, Anandi, Ormanjhi, Jharkhand	

Sarala Birla University offers Ph.D. degree programme in various disciplines as per guidelines given by UGC regulation 2018 and Ordinance approved by the Academic Council of Sarala Birla University. The award of Ph.D. degree is in recognition of high academic achievements, independent research and application of knowledge to the solution of technical, scientific, economic, social, environmental, etc. problems in various disciplines.

The research work shall be an original work characterized either by the discovery of facts, or by a fresh approach towards the interpretation and application of facts. It shall demonstrate the candidate's capacity for critical examination and sound judgment and shall represent an original contribution to the existing knowledge. The degree of Doctor of Philosophy will be awarded in the discipline of the department in which the candidate is registered.

Departments offering Ph.D. Programme

1. Computer Science & Engineering
2. Civil & Environmental Engineering
3. Civil Engineering
4. Mechanical Engineering
5. Electronics & Communication Engineering
6. Electrical & Electronics Engineering
7. Chemistry
8. Physics
9. Mathematics
10. Commerce
11. Business Management
12. Economics
13. English
14. Yogic Sciences
15. Library Science

Ph.D. Admission Details Session- 2022-2023 (Monsoon)				
Sr. No.	Name	Admission No.	Ph.D.	Total
Faculty of Engineering & Applied Science				
1	Kumari Vinita	SBU221804	ECE	2
2	Pammi Kumari	SBU221825	ECE	
3	Amit Gupta	SBU221814	ME	1
Faculty of Commerce & Business Management				
1	Govind Yadav	SBU221818	Energy Management	6
2	Eftisham Parween	SBU221834	HR	
3	Khushi Mishra	SBU221837	HR	
4	Chandra Shekhar Mahtha	SBU221833	HR	
5	Rishika Gupta	SBU221854	HR	
6	Shashank Sharan	SBU221835	HR	

Ph.D. Admission Details Session- 2022-2023 (Spring)									
Sr. No.	Name	Admission No.	Ph.D.	Total	Sr. No.	Name	Admission No.	Ph.D.	Total
Faculty of Engineering & Applied Science					Faculty of Commerce & Business Management				
1	Shweta Kumari	SBU232542	CSE	5	1	Ajay Jalan	SBU232463	Marketing	11
2	Sunil Kumar Samantaraya	SBU232598	CSE						
3	Indra Mohan Shrivastava	SBU232593	CSE						
4	Raju Ranjan Kumar	SBU232487	CSE						
5	Atul Kumar	SBU232497	CSE						
Faculty of Humanities & Linguistics					6	Amitash Shukla	SBU232617	Marketing	
1	Manisha Singh	SBU232537	English	2	7	Ehsan Ahmad	SBU232564	Finance	
2	Sumati Kumari	SBU232578	English						
3	Roma Kumari	SBU232575	Library Science	1	8	Amitesh Agarwal	SBU232546	Finance	
4	Sweta Sinha	SBU232501	Political Science	1	9	Pawan Kumar Agarwal	SBU232540	Finance	
Faculty of Yogic Sciences					10	Priyanka	SBU232595	HR	
1	Anjana Kumari Singh	SBU232499	Yoga	3	11	Amit Anand	SBU232486	Strategic Management	
2	Neetu Kumari	SBU232470	Yoga						
3	Devesh Kumar	SBU232579	Yoga						

MANTHAN-SBU JOURNAL OF COMMERCE, MANAGEMENT & HUMANITIES

- The journal aims at disseminating original, scientific, theoretical or applied research for providing a platform for publishing research and result with a strong empirical element so as to channel the significant gap existing between research and practice.
- The journal covers all topics in the field of Management, Humanities, English Literature, Global Studies, and Art Discipline.
- It aims to bring its readers the very best analysis and discussion in the developing field of management and humanities and social sciences.
- The Journal also gives emphasis towards the development and retention of outstanding scholars.
- It further aims to bring its readers the best analysis and discussion in the developing field of Management and Humanities.

SHODH MANTHAN-SBU JOURNAL OF APPLIED SCIENCE & ENGINEERING

- This journal intends to capture and achieve the advancing boundary of knowledge and technology by encouraging researchers and academicians to present and discuss matters of major interest in the field of Engineering and Science.
- This journal publishes and promotes original research papers, experimental works, case studies and review papers related to the broad spectrum of Civil engineering, Computer Science Engineering, Mechanical Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering and Applied Science and Technology.
- The Journal provides a platform for scholars to share their knowledge and innovation in the field of Science and Engineering.
- It also aims to enhance the interdisciplinary studies for the development of new era of Technology, Industry and Society.
- It aims to give emphasis on empowering the scholar to maximizing their potential.

Distinguished Alumni Association

Alumni Association

The University has formed Alumni Association in the name of “**Sarala Birla University Alumni Association**”, to provide a forum so as to bring together all the Ex-students of the University, so that they can contribute their expertise in technology to help each other for achieving various academic and non-academic goals of the University. The Alumni Association has filed for registration ‘Under Society Registration Act’ and is in progress.

Following are the office bearers of the “Sarala Birla University Alumni Association”

- President – Prof. Rahul Vats
- General Secretary – Dr. Ashok Kr. Asthana
- Treasurer – Mr. Prateek Kumar

The Aims and Objectives of the Association:

- To provide a forum for all its members for interaction at various levels.
- To achieve high degree of belongingness with the University and all other alumni passed over in different years;
- To foster a feeling of brotherhood and friendship and to promote the spirit of mutual helpfulness amongst the members of the Association
- To collect, publish and disseminate information that is relevant to all the members of the Association.
- To play a significant role in the placement of students of the University in reputed organizations.
- To bring the Ex-students of SBU, Ranchi under one forum for exchange of experience, dissemination of knowledge and talents amongst its members and also for the furtherance of fellowship, advancement of scientific

knowledge in general of the members of the Association and country.

- To conduct seminars, conferences, workshops, endowment lectures and other academic activities and also to keep in touch with the University faculty, non teaching staff and students.
- To create and establish Alumni endowments for granting scholarships, prizes and medals to the students showing high proficiency in their studies and honour former students of the University.
- To advise and interact with State and Central Government Bodies, Universities and Associations of other academic institutions on matters relating to promotion of higher education, training and management systems and thereby promote the welfare and status of the University.
- To collect funds through subscriptions, contributions, donations and gifts from members, non-members, governments universities and other institutions and philanthropists for furtherance of the above-mentioned objectives.
- To render financial aid to deserving poor students studying in the University.
- To render financial aid to deserving alumni in cases of extreme compassionate circumstances.
- To bring out magazines, souvenirs and newsletters highlighting the activities of the University and its Alumni
- To organize cultural and educational programmes and also to conduct Alumni Day celebrations every year.
- To help the Alumni to get advice from the University on various technical problems and job opportunities that they may come across in their work and real life.
- To carry out such other activities as may be necessary for furthering the above aims and objectives, however no commercial activities will be carried out by the association.

Extra-Curricular Activities

National Conference:

Faculty of Commerce & Management, Sarala Birla University, organized a National Conference on Emerging Trends in Innovative and Sustainable Business Practices on 13th and 14th October 2022. The conference highlights the use and implementation of sustainable business practices in the present era. The main objective of this conference was to explore pathways to address sustainability issues and the ways to resolve them.

Saraswati Puja:

Sarala Birla University hosted the Basant Panchami Utsav on its campus on January 24, 2023. An idol of Goddess Saraswati was placed at Puja Sthal in the open amphi theatre near the Administrative block of the University. The campus was lavishly adorned for the occasion.

Holi Milan Samorah:

Sarala Birla University put on a spectacular and vibrant event on March 7, 2023 to celebrate Holi. By using Gulal and participating in a safe and herbal Holi celebration, all of the teachers and students exchanged heartfelt wishes.

Umang:

On 9th & 10th February 2023, Sarala Birla University, Ranchi conducted its annual sports meet, Umang-23. Students took part in a number of sports, including football, cricket, basketball, tug of war, volleyball, shot put, and track & field competitions.

CSR Summit-2023

The National CSR Summit-2023 was organized by the Faculty of Commerce & Management, Sarala Birla University, Ranchi on “Corporate Social Responsibility: Ethical Practices towards Rural & Tribal Sustainable Quality Assurance in the New Civil Society” on 6th January 2023.

Youth Parliament

Sarala Birla University organized the District Level Leveraging Neighbourhood Youth Parliament Program in association with Nehru Yuva Kendra Sangathan on 26th February 2023. The theme of the program was “Vasudhaiva Kutumbakam- One Earth, One Family, One Future”.

National Seminar

The Faculty of Humanities & Linguistics, Sarala Birla University organized a National Seminar on “Translation Studies in Indian Languages and Indian Knowledge System” on 2nd and 3rd March 2023.

G-20 Seminar

The Faculty of Commerce & Management and Faculty of Humanities & Linguistics collaboratively organized the seminar on G-20 “Vasudhaiva Kutumbakam- One Earth, One Family, One Future” on 23rd March 2023.

National Conference

The Department of Yogic Sciences & Naturopathy organized the two-day National Conference on “Lifestyle Disorders: Solution with Yoga & Alternative Therapies” on 5th and 6th April 2023.

Chitrapat Jharkhand Film Mahotsav-2023

A three-day Chitrapat Jharkhand Film Mahotsav-2023 was organized in Sarala Birla University, Ranchi from 23rd June to 25th June 2023. More than 100 films from across the state were screened in it. Its main objective was to promote the regional cinema.

I nfrastructure Overview & New Facilities

Total Area : 46.34 Acers

Total Built Up Area : 46433 Sqmt. Constructed in Campus+ 4565 Sqmt. on Lease

Building & Infra Structural Detail

Admin Block : 4932 Sqmt (G+4)	
Particulars	Area in Sqmt.
Ground Floor	1004
1 st Floor	854
2 nd Floor	887
3 rd Floor	939
4 th Floor	939
Terrace	309
Total	4932

New Academic Block - 1 : 9969 Sqmt (B+G+7)	
Particulars	Area in Sqmt.
Basement	1142
Ground Floor	1119
1 st Floor	1072
2 nd Floor	1072
3 rd Floor	1072
4 th Floor	1072
5 th Floor	1095
6 th Floor	1095
7 th Floor	1095
Terrace	135
Total	9969

New Academic Block - 2 : 8827 Sqmt (G+7)	
Particulars	Area in Sqmt.
Ground Floor	1119
1 st Floor	1072
2 nd Floor	1072
3 rd Floor	1072
4 th Floor	1072
5 th Floor	1095
6 th Floor	1095
7 th Floor	1095
Terrace	135
Total	8827

Old Academic Block - 2 Nursing Building : 3843.5 Sqmt. (G+4)	
Particulars	Area in Sqmt.
Ground Floor	768.7
1 st Floor	768.7
2 nd Floor	768.7
3 rd Floor	768.7
4 th Floor	768.7
Total	3843.5

Others : 7605.92 Sqmt.	
Particulars	Area in Sqmt.
Yoga & Naturopathy and Skill Development	1846.11
Information Centre	78.3
Work Shop	468.32
Yoga Hall	132.47
Canteen	1201.79
Canteen (Dining Space)	929
Diemensa	852.84
Girl's Hostel	1047.66
VC Residence	1049.43
Total	7605.92

Hostel (2 Blocks - G+6) : 11257.6188	
Particulars	Area in Sqmt.
Hostel - Block-1	5628.8094
Hostel - Block-2	5628.8094
Total	11257.6188

Hostel of SBU on Lease : 4565.95 Sqmt.	
Particulars	Area in Sqmt.
Hostel - II-A	1147.3525
Hostel - II-B	538.6
Hostel - III	2879.9942
Total	4565.9467

Total (A+B+C+D+E+F) : 46433 Sqmt. Constructed in Campus + 4565 Sqmt. on Lease

Staff & Student's Welfare

- Staff & Student Welfare is the primary objective of the University.
- Training Sessions & Expert Talks are arranged from time to time for both the staff and students.
- The University offers accommodation to limited staff within and around the campus.
- In the case of sudden demise of any SBU staff, the University offers job to their dependent (conditional).
- Facilities like, scholarships, conveyance, etc., are extended to all associated with the University.
- Free conveyance facility is given to all staff and conveyance facility is given to students on payment of nominal fee, for commuting to the University.
- A comprehensive overview of student status regarding scholarships for the Session 2022-2023 is tabulated below.

Scholarships :

Sl. No.	Category (UG & PG)	Scholarship	No. of Students Availing Scholarships
1	Armed Forces	15%	74
2	BAGM UNITS	25%	08
3	Differently abled student	25%	03
4	Merit	10%	538
5	Merit	20%	268
6	Merit	25%	36
7	Merit	50%	13
	Others	10% to 60%	18
	Police	15%	13
	SBPS Student	25%	50
	SBU Student	25%	55
8	Sports	10%	03
		Total	1079



Community Outreach through NSS

NSS REPORT

1. Introduction

National Service Scheme (NSS) started in Sarala Birla University in 2019 with 200 students volunteers in two units, unit I & unit II.

Program officer unit I :- Dr. Sanjeev Kumar

Program officer unit II :- Dr. Megha Sinha

Program Coordinator :- Dr. Sanjeev Kr. Sinha

State Nodal Officer :- Dr. Brajesh Kumar

National Service Scheme plays a crucial role in promoting social welfare, addressing inequalities, and enhancing the quality of life for the deprived communities. Through various programs and initiatives, it aims to create a more inclusive society where every citizen has access to basic needs and opportunities for development.

Objectives

The primary objectives of National Service Scheme is "Not me But you". The other objectives are:

1. Empowerment of deprived Groups: Focus on empowering women, children, Scheduled Castes, Scheduled Tribes, and other disadvantaged groups through targeted schemes.
2. Social Justice and Equality: Promote social justice by addressing systemic inequalities and ensuring equal rights for all citizens.
3. Community Development: Encourage community participation in development activities to foster self-reliance and sustainable growth. Initiatives focused on health, sanitation, education, and environmental conservation.
4. Health and Education: Improve access to healthcare and education, particularly for underserved populations, to enhance overall well-being.
5. Disaster Management: Develop frameworks for disaster preparedness and response to protect vulnerable communities. Participation in disaster management and relief efforts during natural calamities.
6. Awareness Campaigns: Programs addressing social issues like gender equality, literacy, and health awareness.
7. Promote national integration: through cultural Programs and cultural exchange activities.

Achievements

Over the years, National Service Scheme in India has made significant strides in various areas:

1. Women's Empowerment: Initiatives like the National Rural Livelihood Mission (NRLM) and the Beti Bachao Beti Padhao scheme have successfully empowered women through skill development and awareness programs, leading to increased participation in the workforce.
2. Poverty Reduction: The implementation of the Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA) has provided millions of rural households with guaranteed wage employment, effectively lifting many out of poverty.
3. Education Initiatives: Programs such as the Sarva Shiksha Abhiyan (SSA) and the Right to Education Act have significantly increased enrollment rates in primary education, particularly for girls and children from marginalized communities.
4. Health Programs: The National Health Mission (NHM) has enhanced healthcare access and quality, resulting in improved maternal and child health indicators across the country.
5. Social Security Schemes: The introduction of various social security schemes, including the Pradhan Mantri Jan Dhan Yojana and the Atal Pension Yojana, has improved financial inclusion and provided safety nets for the vulnerable.
6. Disaster Management: The National Disaster Management Authority (NDMA) has established protocols and training programs, enhancing the resilience of communities to natural disasters.

Conclusion

The National Service Scheme continues to evolve, addressing the dynamic challenges faced by society. With a clear focus on empowerment, equality, and sustainable development, these initiatives aim to create a just and equitable society where every individual can thrive. Ongoing efforts and innovations will be essential to further these objectives and achieve lasting impact in the years to come.

The various outreach programs conducted by NSS of SBU are mentioned as below:

SL- No	Date	Name of the activity	Organising unit/ agency/ collaborating agency	Name of the scheme	Year of the activity	Number of students participated in such activities	Resource Person/Organisation/Guest
1	04.07.2022	Red Ribbon Club Formation	Unit-I/unit II	NSS	2022	10	Dr.V. K. Singh, Dr.Sanjeev Kr. Sinha, Dr.Megha Sinha, Dr.Arohi Anand,
2	13.08.2022	Plantation in Jaratoli & Baram	Unit-I/unit II	NSS	2022	200	Dr.Sanjeev kr sinha,Dr.Megha sinha, Dr.Arohi Anand,Dr.Ria Mukherjee
3	13.08.2022	Har Ghar Tiranga	Unit-I/unit II	NSS	2022	200	Dr.Sanjeev kr sinha,Dr.Megha sinha, Dr.Arohi Anand,Dr.Ria Mukherjee
4	25.08.2022	Precation does Corona Vaccine	Unit-I/unit II	NSS	2022	700	Prof.(Dr.) Gopal Pathak(Vice Chancellor) DR.V.K.Singh. Dr.S.K.Sinha. Dr.Megha Sinha. Dr.Sanjeev Kr. Prof.Rahul Vats. Mr.Ajay Kumar
5	24.09.2022	Yuva Mahotsav	NYKSRU & SBU	NSS	2022	40	VC RU,DSPMU, Dr.S.K.Sinha, Dr.Brajesh Kr & Others.
6	12.01.2023	159 Birth Anniversary of Swami Viveka Nand	Unit-I/unit II	NSS	2023	200	Prof.(Dr.) Gopal Pathak(VC) DR.V.K.Singh, Dr.S.K.Sinha. Dr.Megha Sinha, Dr.Sanjeev Kr. Prof.Rahul Vats, Mr.Ajay Kumar all Deans & all Faculty Members.
7	23.01.2023	" Prakaram Diwas."	Unit-I/unit II	NSS	2023	200	Prof. S.B.Dandin, Dr. S.K.Sinha. Dr.Megha Sinha, Dr.Sanjeev Kr. all Deans & all Faculty Members.
8	22.03.2023	Blood donation camp	Unit-I/unit II	NSS	2023	300	Prof.(Dr.) Gopal Pathak(VC) DR.V.K.Singh, Dr.S.K.Sinha. Dr.Megha Sinha, Dr.Sanjeev Kr. Prof.Rahul Vats, Mr.Ajay Kumar all Deans & all Faculty Members.
9	25.03.2023	Orientation Programe	Unit-I/unit II	NSS	2023		
10	05.06.2023	World Environment Programe	Unit-I/unit II	NSS	2023	130	Prof.(Dr.) Gopal Pathak(VC) DR. V.K.Singh, Dr. S.K.Sinha. Dr.Megha Sinha, Dr.Sanjeev Kr. Deans & all Faculty Members.
11	07.06.2023	International sports day	Unit-I/unit II	NSS	2023	100	Prof.(Dr.) Gopal Pathak(VC) DR.V.K.Singh, Dr.S.K.Sinha. Dr.Megha Sinha, Dr.Sanjeev Kr. Deans & all Faculty Members.
12	21.06.2023	International Yoga Day	Unit-I/unit II	NSS	2023	500	Prof.(Dr.) Gopal Pathak(VC) DR.V.K.Singh, Dr.S.K.Sinha. Dr.Megha Sinha, Dr.Sanjeev Kr. Deans & all Faculty Members.



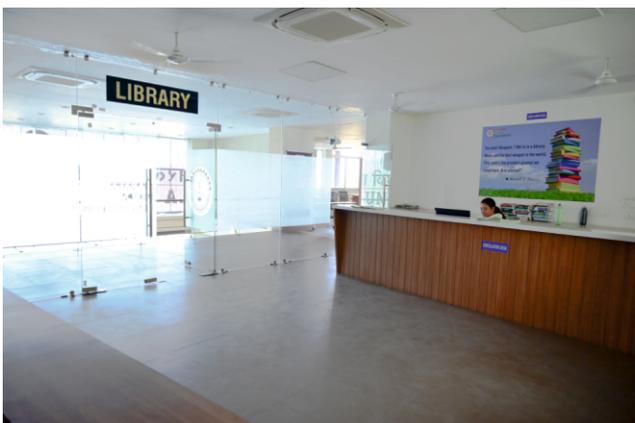


Overview
Statistics

The University Library is a knowledge center with extensive resources in Engineering and Applied science, Commerce and Management, Social science and Humanities, Yoga, and Naturopathy. It is located in a peaceful natural setting with a carpet area of 8952 square feet in the University's Administrative Block. All the books have barcodes and Classifications. The library is operated through automated ERP Software. The University Library is also the Part of NDL (National Digital Library of India). Over 12203 Volumes and 22 National and International Journals are housed in the library.

Library Statistics: 2022-23

Total No of Volumes Purchased	3775
Total Amount of Books /Journals Purchased	Rs.29,94,980
Total No. of Journals Subscribed	22
E-Journals Subscribed	Manu Patra
Total Books Entered in ERP Software/Classified/ Barcoded	3775





- **Publications**
- **Honours/Awards**
- **Memberships**

Dr. Sanjeev Kumar Sinha

Associate Professor (Chemistry)

Journal Publication:

Pintu Das, Abhijit Chatterjee, Sanjeev K.Sinha (2023), "Comparative Study of Physico - Chemical Parameter for Two Distinct Water Bodies of Ranchi District" Journal of Environmental Science & Engineering (Scopus), in press.

Dr. Nitya Garg

Assistant Professor (Physics)

Journal Publication:

Nitya Garg (2023). A brief review of features of copper indium disulphide (CuInS₂) nanomaterials for quantum dot solar cells, Algerian Journal of Engineering and Technology, 08, 138–146, ISSN: 2716-9227.

Dr. Rohit Mukherjee

Assistant Professor (Physics)

Journal Publications:

- Rohit Mukherjee, and S. Konar; "Electromagnetically Induced Transparency Based Quantum Well Infrared Photodetectors," Journal of Luminescence 251, 119176 (2022). (I. F=3.6) (SCI, Q1)
- Monika Nath, Rohit Mukherjee, and Nitu Borgohain; "Giant Kerr-Quintic-Septic Nonlinearities in Semiconductor Quantum Wells," European Physical Journal Plus 137, 903 (2022). (I. F=3.4) (SCI, Q2)

Mr. Abhijit Chatterjee

Teaching Assistant (Chemistry)

Journal Publication:

Pintu Das, Abhijit Chatterjee, Sanjeev K.Sinha (2023), "Comparative Study of Physico -Chemical Parameter for Two Distinct Water Bodies of Ranchi District" Journal of Environmental Science & Engineering (Scopus), in press.

Dr. Sagar Sarangi

Assistant Professor (Civil Engineering)

Journal Publication:

- S. Sarangi & B. Kumar, **Influence of Textile Fiber in the Mechanical Characteristic of Hybrid Fiber Reinforced Concrete**, Journal of Natural Fibers. 1544-046X.

Dr. Pintu Das

Assistant Professor (Mathematics)

Journal Publications:

- Multispecies Solute Dispersion with Variable Porosity in Semi-Infinite Saturated Porous Media, Das P., Akhter A. and Singh M. K., Arabian Journal of Geosciences, Springer. Vol. 15, 1134 (2022). (Scopus), IF-0.406
- Comparative Study of Analytical and Numerical Solutions for Solute Transport in Two-Dimensional Homogeneous and Anisotropic Porous Media with Time-Dependent Velocity Field, Jaiswal D. K., Kumari P., Das P. and Singh. P, Ganita, Vol.73(2), 2023, 105-122.

FACULTY OVERVIEW

Dr. Vikash Kumar

Assistant Professor (Mathematics)

Journal Publications:

- Saha, S., Kumar, V., Bhushan, A., & Das, A. N. (2023). Mechanics of Indentation for an Elastic Half-Space by Punches. WSEAS Transactions on Applied and Theoretical Mechanics, 18, 310-317. ISSN No: 2224-3429.
- Rao, S., Shankar, R., Kumar, I., Gupta, S., Baronia, A., & Kumar, V. (2023, December). Investigation of Deep Learning Based NOMA System Over Time Varying Fading. 2023 (Vol. 10, pp. 753-760). IEEE.

Dr. Ravi Kumar Verma

Assistant Professor (Mathematics)

Journal Publications:

- Verma, R.K., Pal, A.K., Kushvah, B.S. and Mahato, G., 2023. Effect of finite straight segment and oblateness in the restricted 2+2 body problem. Archive of Applied Mechanics, 93(7), pp.2813-2829, ISSN: 1432-0681.
- Verma, R.K., Kushvah, B.S., Mahato, G. and Pal, A.K., 2023. Perturbed Restricted Problem of Three Bodies with Elongated Smaller Primary. The Journal of the Astronautical Sciences, 70(3), pp.1-26, ISSN: 2195-0571.

Dr. Bishnu Charan Rout

Assistant Professor (Mathematics)

Journal Publications:

- SR Mishra, Tian-Chuan Sun, BC Rout, M Ijaz Khan, M Kbiri Alaoui, Sami Ullah Khan,(2022), [Control of dusty nanofluid due to the interaction on dust particles in a conducting medium: Numerical investigation, Alexandria Engineering Journal, 04\(61\), 3341-3349. ISSN: 2090-2670.](#)
- B.C. Rout, Chandan Dehury.(2023) [Foreign Exchange Reserves: A Causal Study With Empirical Analysis In Indian Context, Tripti European Chemical Bulletin 12 \(10\), 1422 – 1428. ISSN 2063-5346.](#)
- B.C. Rout, Debadip Chakraborty. (2023) [Speech Emotion Recognition: A Review European Chemical Bulletin 12 \(4\), 18421-18427. ISSN 2063-5346.](#)
- B.C. Rout, Sakshi. (2023) [Artificial Intelligence Tools and Perspectives in Academic Libraries: A Review European Chemical Bulletin 12 \(4\), 18413-18420. ISSN 2063-5346.](#)

Dr. Partha Paul

Associate Professor (Computer Science Engineering)

Journal Publication:

1. Sanyal Kaustav & Paul Partha (2022).” **SKIP-GRAM Vectorisation of the Semantic rules of PANINI for Artificial Neural Network for Sanskrit Grammar.**” Semi-Conductor Optoelectronics, vol.41, pp: 767-770.
2. Sanyal Kaustav & Paul Partha (2022).” **Construction of a Recurrent Neural Network from the Amar Kosha.**” International Journal of Mathematical Statistician and Engineering Application, vol. 71, pp.8958-8963.
3. Ghosh swagata, Paul P, Sharma Neeraj Kumar (2023) “**Comparative study of Unsupervised Classification in Land use Land Cover data**”. In Proceedings of Microelectronics, Computing & Communication Systems (MCCS 2023).

FACULTY OVERVIEW

Dr. Santosh Kr. Das

Assistant Professor (Computer Science Engineering)

Journal Publication:

- Das, S. K., Dey, N., Crespo, R. G., & Herrera-Viedma, E. (2023). **"A non-linear multi-objective technique for hybrid peer-to-peer communication"**. Information Sciences, Vol: 629, Issue C, pp: 413-439.
- Santosh Kumar Das (2023), Nilanjan Dey **"Constraint Decision-Making Systems in Engineering"**, IGI Global, ISBN: 9781668473436.
- Santosh Kumar Das (2022), Massimiliano Giacalone, **"Fuzzy Optimization Techniques in the Areas of Science and Management"**, CRC Press.

Mr. Prakash Anand

Assistant Professor (Computer Science Engineering)

Journal Publication:

- Prakash Anand, Dr. Priyanka Srivastava, Dr. Piyush Ranjan (2023). **A Review of Different Handwritten Character Recognition Methods**, Mukta Shabd Journal, pp: 976-994, Vol.12, Issue XII.
- Prakash Anand, Priyanka Srivastava, Piyush Ranjan (2023), **"A review on image segregation and analysis within a broad image"** AIP Publishing.
- Anand, P., Ranjan, P., Srivastava, P. & Kumar, D. (2023). **Hand-Written Devanagari Character Recognition Using Convolutional Neural Network in Python with Tensor flow**. In International Conference on Recent Trends in Artificial Intelligence and IoT (pp. 122-137). Cham: Springer Nature Switzerland.
- Prakash Anand, Dr. Priyanka Srivastava, Dr. Piyush Ranjan (2023). **Analysis Of Handwritten Character Recognition and Interpretation of Results**, Journal of Sustainable Science and Transformative Research, Reviews & Letters, 2 (2), 153-159.
- Prakash Anand, Dr. Megha Sinha, Dr. Piyush Ranjan (2022), **Image Segmentation Techniques and its Applied Methods: A Review"**, Kanpur Philosophers Vol IX, Issue V (III), 2022.
- Keshav Sinha, Partha Paul, Megha Sinha, Devesh K. Upadhyay, Roma Kumari (2022) **"Right to Correct Information in the Cyber World"**, Handbook of Research on Cyber Approaches to Public Administration and Social Policy, IGI Global.

Dr. Dipti Kumari

Assistant Professor (Computer Science Engineering)

Journal Publication:

- Sen Bipasa & Kumari Dipti (2023). **"Usage of Blockchain in Indian Land Registration and Land Recording System-A Revolutionary Step"**. IJHESM, Vol.04 (1), pp.119-134.
- Sen Bipasa & Kumari Dipti (2023) **"Infrastructural Developments of India- The key factor to integrate Blockchain in Land Recording and Land Registration Systems"**. China Petroleum Processing and Petrochemical Technology (Scopus), Volume 23, Issue 2, pp. 1066-1083.
- Sen Bipasa & Kumari Dipti (2022). **"Impact of Blockchain-enforced Land Recording and Registration Systems on the Indian Economy"**. Economy Polity Environment, Volume 4. No. 1, pp.29-37.
- Dipti Kumari (2023) **"Integrating Block chain in Indian Land Recording and Land Registration System"** in International conference on Innovating Technologies & Intelligent Systems". (ICITIS-2023).

Dr. Sandeep Kr. Modak

Assistant Professor (Computer Science Engineering)

Journal Publication:

- Modak, S. K. S., & Jha, V. K. (2023). **"A novel multimodal biometric authentication framework using rule-based ANFIS based on hybrid level fusion"**. Wireless Personal

Dr. Rohit Yadav

Assistant Professor (Computer Science Engineering)

Journal Publication:

- Paruchuri, T., Kancharla, G. R., Dara, S., Yadav, R. K., Jadav, S. S., Dhamercherla, S., & Vidyarthi, A. (2022). **"Nature Inspired Algorithms for Solving Multiple Sequence Alignment Problem: A Review"**. Archives of Computational Methods in Engineering, 29(7), 5237-5258.

FACULTY OVERVIEW

Mr. Anand Kr. Vishwakarma

Trainer

Journal Publication:

- Vishwakarma Anand Kumar, Paul Partha, Sinha Keshav, Manorama (2023) "**Modelling an Intrusion Detection System in Distributed Networks**". International Conference on Emerging Research Paradigm for Sustainable Development (ICERPSD-2023), Jharkhand Rai University.
- Vishwakarma Anand Kumar, Sinha K, Paul P (2022). "**Detail Analysis of Attacks and Methods of Intrusion Detection System**", in Proceeding of 8th International Conference on Nano electronics, Computational Intelligence & Communication (NCCS2022).

Dr. V. N. Lakshmi Durga

Assistant Professor (Mechanical Engineering)

Journal Publication:

- Deepanka Saikia, Prakash Kumar Nayak, Kesavan Radha Krishnan, Rajesh Kondareddy, Durga Venkata Naga Lakshmi, (2023) "Experimental investigation of modified indirect solar dryer with integrated thermal storage material for drying of dhekia (*Diplazium esculentum*) fern," Environmental Science and Pollution Research.
- P Muthukumar, DVN Lakshmi, Puja Koch, Mukesh Gupta, G Srinivasan (2022) "**Effect of drying air temperature on the drying characteristics and quality aspects of black ginger**, Journal of Stored Products Research, Volume 97, 101966.
- Deepanka Saikia, Prakash Kumar Nayak, K Radha Krishnan, Rajesh Kondareddy, DVN Lakshmi, (2022) "**Development of indirect type solar dryer and experiments for estimation of drying parameters of dhekia (*Diplazium esculentum*)**," Materials Today Proceedings, Volume 56, Part 2, Pages 774-780.

Dr. Arohi Anand

Assistant Professor (Economics)

Journal Publication:

- Anand, Arohi (2022). "**A Comparative Study of Select' Beyond GDP' Measures**" IUJ Journal of Management, Vol :9, Issue 2.

Mr. Rajeev Ranjan

Assistant Professor (Mechanical Engineering)

Journal Publication:

- Rajeev Ranjan, Sanjay Kumar Jha (2022) "**Low-frequency Vibration-assisted Welding: A Review of Recent Developments**". Journal of Experimental & Applied Mechanics, Volume 13, Issue 3, 2022.
- Rajeev Ranjan, Sanjay Kumar Jha (2022) "**Effect of Vibration on the Weld Quality and Properties in Vibration Assisted Welding: A Review**". International Journal of Mechanical Handling and Automation, Volume 8, Issue 2.
- Rajeev Ranjan, Sanjay Kumar Jha and Ajay Kumar (2023) "**Enhancing Hardness in SMAW Welded Joints with Low-Frequency Vibration Assistance: An Experimental and Analytical Study**". Journal of Adhesion Science and Technology (Taylor & Francis).
- Rajeev Ranjan, Sanjay Kumar Jha (2023) "**Experimental Investigation and optimization of impact strength during low frequency vibration assisted shielded metal arc welded joints**". Welding International (Taylor & Francis).
- Rajeev Ranjan, Sanjay Kumar Jha (2023) "**Investigation of Post weld heat treatment on Mechanical properties of Low frequency vibration assisted SMAW mild steel welded joints**". International Journal on Interactive Design and Manufacturing (IJIDeM) (Springer Nature).
- Rajeev Ranjan, Sanjay Kumar Jha, Tushar Sonar (2023) "**Investigation of welding parameters on Impact Strength of Low frequency vibration assisted butt-welded joints using Taguchi methodology**" International Journal on Interactive Design and Manufacturing (IJIDeM) (Springer Nature).
- Rajeev Ranjan, Sanjay Kumar Jha (2023) "**Optimization of welding parameters and microstructure analysis of low frequency vibration assisted SMAW butt-welded joints**". International Journal on Interactive Design and Manufacturing (IJIDeM) (Springer Nature).
- Rajeev Ranjan, Sanjay Kumar Jha (2023) "**Effect of low frequency vibration-assisted shielded metal arc welding on the properties of mild steel**". Welding International (Taylor & Francis), Volume 37, Issue 8.

FACULTY OVERVIEW

Dr. Sonal

Assistant Professor (Electrical & Electronics Engineering)

Journal Publication:

- Sonal, Debomita Ghosh (2022), **Impact of Situational Awareness Attributes for Resilience Assessment of Active Distribution Networks Using Hybrid Dynamic Bayesian Multi Criteria Decision-making Approach**, Reliability Engineering and System Safety, ISSN No. 0951-8320

Mr. Chandan Kumar

Assistant Professor (Electrical & Electronics Engineering)

Journal Publication:

- Anand Kumar, Chandan Kumar (2023), "**Load Adaptive PID-Aided Asymmetrical Voltage Cancellation Controller-Based Induction Heating System With Improved Power Factor**" ELECTRICA, Vol 23, pp 385-396.
- Anand Kumar, Chandan Kumar (2023), "**Load Adaptive PID-Aided Asymmetrical Voltage Cancellation, Controller-Based Induction Heating System With Improved Power Factor**" Electrica, 23(2), 385-396.

Dr. Durgesh Kumar

Assistant Professor (Electrical & Electronics Engineering)

Journal Publication:

- Kumar, D., Kumar, N., & Kumar, L. (2023). **Impact of operating temperature and solar concentration on the conversion efficiency of InGaP/InGaAs/Ge hybrid triple-junction solar cell**. Brazilian Journal of Physics, 53(1), 31.
- Kumar, D., Ashok, I., Kumari, S., Dipanjali, & Kumar, L. (2022). **Real-Time Data Acquisition System for PV Module**. Smart Grids and Green Energy Systems, 91-104.

Dr. R. M. Jha

Associate Professor (English)

Journal Publication:

- R.M.Jha (2023), "**A Critical Study Of Peace And Serenity In The Selected Poetry Of W. B. Yeats**" International Journal of Research and Analytical Reviews (IJRAR), Volume 10, Issue 2.

Dr. Arbindra Bhandari

Associate Professor (Commerce & Management)

Journal Publication:

- Geddam, S,M, Gowda, A,B & Bhandari, A (2023). "**Human Augmentation Through IoT Smart Wearable Devices: A Conceptual Framework and Future Research Directions**", Emerging Digitalization Trends in Business and Management- A Roadmap to Industry 5.0, CRC Press, Taylor & Francis Group.
- Arabinda Bhandari (2023) "**Demystifying design thinking: insights from a systematic literature review**" International Journal of Knowledge & Learning, [ISSN: 1741-100] DOI: 10.1504/IJKL.2023.10057009.

Mr. Kishlay Kumar

Teaching Assistant (Commerce & Management)

Journal Publication:

- Kishlay Kumar, Dimpal Singhania, Karan Pratap Singh, Puja Mishra, and Keshav Sinha (2023), "**Navigating the Economic Challenges of the Russia-Ukraine Conflict on India**", Handbook of Research on War Policies, Strategies, and Cyber Wars, pp 218-238.
- Kishlay Kumar, Dimpal Singhania, Karan Pratap Singh, Puja Mishra, Praveen Chandra Jha (2023) "**A Young Consumer's Inclination of Mobile Wallets Gateway for Cashless Payment**" Handbook of Research on Technological Advances of Library and Information Science in Industry 5.0, pp 40-60.

Dr. Ashok Asthana

Assistant Professor (Commerce & Management)

Journal Publication:

- Ashok Asthana, Swati Srivastava (2023) "**Online Teaching and Learning Amidst COVID-19**", Measuring the Effectiveness of Organizational Development Strategies during Unprecedented Times, IGI publications.
- Ms. Shalini Ranjan & Ashok Kumar Asthana (2023) "**Impact of Digital Payment System on Indian Rural Banking Customer**" International Journal of Research Publication and Reviews, Vol 4, no 6, pp 1380-1388

FACULTY OVERVIEW

Ms. Dimpal Singhania

Teaching Assistant (Commerce & Management)

Journal Publication:

- Dimpal Singhania, Praveen Chandra Jha, Puja Mishra, and Karan Pratap Singh, (2023), **“Labour Welfare and Industrial Hygiene During COVID-19”**. Handbook of Research on Technological Advances of Library and Information Science in Industry 5.0, pp 249-269.
- Ms. Dimpal Singhania, Dr. Goutam Tanty (2023) **“Understanding of important factors for the adoption of digital payments”**, Asian Journal of Management, Volume - 14, Issue - 3.

Dr. Mukesh Singh

Assistant Professor (Commerce & Management)

Journal Publication:

- Singh, M. & Bhardwaj, Y.P. (2023). **“A study to identify the factors influencing learning orientation on service innovation framework of Delhi Metro Rail Corporation”** Int. J. Public Sector Performance Management, Vol. 12, Nos. 1-2.

Dr. Nitu Singhi

Assistant Professor (Commerce & Management)

Journal Publication:

- Nitu Singhi (2023) **“Role of Quiet Quitting and Workplace Alienation in Organizational Commitment: Understanding Psychological Ownership As Moderator”** International Convention of Psychological Science, Brussels organized by Association of Psychological Science.

Dr. Ria Mukherjee

Assistant Professor (English)

Journal Publication:

- Ria Mukherjee (2022) **“Michal Henchard: A Man of Strong Likes and Dislikes-With Particular Reference to “The Mayor of Casterbridge”** International Journal of Research and Analytical Reviews (IJRAR), Vol. 9.

Dr. Swatilekha Mahto

Assistant Professor (English)

Journal Publication:

- **Naess's Deep Ecological Perspective in Barbara Kingsolver's Prodigal Summer”** Literary Voice:. Number 18, Volume 1.
- Mahato, Swatilekha (2023) **‘Resisting the Exploitation of Nature and Restoring the Ecological Harmony in Helon Habila's Oil on Water: A Deep Ecological Perspective,’ Environmental Imagination and Greening of Literary Studies: Critical Perspective on Green Literature**. Emerald Publishers, ISBN-9788119106202. 132-149.

Dr. Archana Maurya

Assistant Professor (Yogic Science)

Journal Publication:

- Arya, D., Gaur, V., Maurya, A., Kala, M., (2022). **“Impact of Yogic Practices on Mental Well-Being of Adolescent Girls. Rabindra Bharti”** Journal of Philosophy, Vol.: XXIII, No: 09.
- Anshu, Kumar, R., Sharma, S. G., Maurya, A., Arya, D. (2022). **“Effect of Pranayama on Stress, anxiety level and sleep quality in post COVID-19 patients: A narrative review”**. International Journal of Yoga and Allied Science, Vol 11, No: 2, pp: 89-94.
- Maurya, A., Jyoti, Monika. (2023). **Effect of Yoga on Stress, Fear & Anxiety Due to Covid-19: A Systematic Review**, International Journal of Research Publication and Reviews, Vol 4, pp 4896-4899.
- Prakash, S., Maurya, M. (2023). **“Role of Yoga Anxiety And Stress Due To Covid-19: A Review”**. Souvniar.
- Prakash, S., Maurya, A., Arya, P. (2023). **“Role of Yoga in Combating Lifestyle Disorders”**. Souvniar.

FACULTY OVERVIEW

Ms. Anjana Singh

Teaching Associate (Yogic Science)

Journal Publication:

- Anjana, A. K. (2023). "समग्र स्वास्थ्य के लिए प्राचीन भारतीय चिकित्सा पद्धतियों का महत्व" National Conference on "Bhartiya Bhasaon me anuwad Adhyayan tatha Bhartiya Gyan Parampara", Organized by SBU and Bhartiya Bhasa Samitee, Shiksha Mantralaya, Bharat Sarkar.
- Anjana, A. K. (2023). "Role of Acupressure in Prevention and Management of Schizophrenia" National Conference on Lifestyle Disorders: Solutions with Yoga & Alternative Therapies organized by Faculty of Yogic Sciences & Naturopathy, SBU.

Dr. Atul Kumar Srivastava

Assistant Professor (Mathematics)

Journal Publication:

- Srivastava A. K., Bharty M., Mahato H. (2023). "Onset of double diffusive Convection in rotating fluid layers with Maxwell-Cattaneo Law". Brics Journal of Educational Research, 13(1), 1-9.
- Bharty, Monal; Srivastava, Atul. K.; Mahato, Hrisikesh (2023) "Maxwell Cattaneo double diffusive convection (DDC) in a viscoelastic fluid layer". Journal of Computational analysis and applications, vol. 31, no.1, 2023.



- **Overview**
- **SBU Internships**
- **Placement**

Overview

TRAINING & PLACEMENT

The University emphasizes multidimensional training of students in-line with various industry expectations. In addition to facilitating the placement of students, the Training & Placement Cell collaborates with leading organizations to provide internships and training programs for the students. The Training & Placement cell provides infra structural and logistical support for group discussions, tests, and interviews. Seminars and PDP lectures are organized by the cell to build confidence among the students prior to their campus placements. The institute offers employment opportunities in the various industries namely Core Engineering, IT and IT-enabled services, Manufacturing, Consultancy Firms, Finance Companies, Management Companies and R & D Laboratories.

Supported by :



Program	Batch	Companies
MBA	2022-2023	State Bank of India Axis Bank Central Coalfields Limited Reliance Retail Indian Overseas Bank SNL Bearings Ltd. IDBI Bank KIA Motors
BBA	2022-2023	Bandhan Bank TATA Steel Fogla Corp Uranium Corporation of India Limited TATA Motors SST Hosiery Kolkata Xtraamile Edu Events ICICI Prudential Maruti Suzuki Brajesh Automobiles GoodSpace.ai Heavy Engineering Corporation Ltd. TATA Motors ACC Limited Help & Hygiene NarnoliaFinancial Services Ltd. Sudha Motors Hindalco Industries Ltd.
B.COM	2022-2023	Central Coalfields Limited Jamshedpur Utility Services Company Limited(JUSCO) Prabhat Khabar
MCA	2022-2023	Bharat Sanchar Nigam Limited
BCA	2022-2023	<i> TATA Consultancy Services Chennai Bharat Coking Coal Limited (BCCL) Central Coalfields Limited </i>
B.Tech -CSE	2022-2023	CMPDI IIT Ropar Central Coalfields Limited TATA Consultancy Services Uranium Corporation of India Limited Research and Development Centre for Iron and Steel (RDCIS) Steel Authority of India Limited TATA Motors Cloudinfy,Hindalco Red positive Unique Identification Authority of India (UIDAI)
B.Tech -CE	2022-2023	Prism Johnson Limited GCG InfratechRanchi National Highways Authority of India (NHAI) Urban Developmentand HousingDepartment,Jharkhand
B.Tech -EEE	2022-2023	IIT Ropar
B.Tech -ME	2022-2023	TATA Motors Jindal Steel And Power Hindalco Heavy Engineering Corporation Ltd. National Thermal Power Corporation
DIP-CSE	2022-2023	TATA Consultancy Services
DIP-CE	2022-2023	Prism Johnson Limited S. P. Singla Constructions Pvt.Ltd. Shapoorji Pallonji And Company Private Limited Delhi Land & Finance (DLF Limited)
DIP-ME	2022-2023	Steel Authority of India Limited Hindalco Hyundai Motors

PLACEMENT

Placement Report 2023

The T&P Cell put all its effort in making the placement drive for the 2023 batch successful.

We are pleased to inform that we have achieved 91% placement.

This year we almost sent 2000+ placement invitation emails to HR/Companies for final placements and internships. As for the final placement, we have connected with and received responses from more than 170+ companies. About 100+ placement drives have been successfully conducted this year for the 2023 batch (Virtual and Physical Modes both)

Students Count

Placement Report 2022-2023 – DETAILED DEPARTMENT WISE								
SL NO	Course	Total Students	Students Opted Out	Students Opt IN	Placed Students	Average Package	Highest Package	Percentage
1	All Courses	673	325	348	324	4 LPA	9.15	93%

Our Recruiters are:

Top Recruiters

Barclays Bank, Hindustan Unilever, Kotak Mahindra Bank, Tata Consultancy Services, Wipro – WILP, Tata AIG, Vodafone Idea Limited, India Mart, Grasim- Birla Paints, Dalmia Cement, Alight Solutions, Godrej & Boyce, Bandhan Bank, IDFC First Bank, ICICI Bank, Kotak Mahindra Bank, HDFC Bank, Accenture, Yazaki, Timken, DSP Mutual Fund, Ernst & Young Services Private, Mahindra Holidays, Piramal Finance, Varun Beverages, HDFC Bank. Map My India, IIT Delhi Virtual Labs, Cashpor Micro- Credit. Adecco L&T Construction & Mining Machinery (Team Lease Services Limited Payroll).

Other Recruiters-

ESAF Bank, Nathcorp, Sutherland, RAD TechPro, EDC India, Salasar Services (Insurance Brokers) Pvt. Ltd., Movate Technologies, Planet Spark. Intelipat, Voltech Group, iB Arts Pvt. Ltd, Learning Shala, Bluestone, HDFC AMC- Skills Connect, IBEX Engineering, ICICI Lombard, MICA Educational, Aakash Byju's, Raise Digital, Collabera, Aadrika Technologies, Nahar Engineering, Utracon India.

PLACEMENT

Placement Report 2022-2023 - DETAILED DEPARTMENT WISE

SL NO	Course	Total Students	Students Opted Out	Students Opt IN	Placed Students	Average Package	Highest Package	Percentage
1	All Courses	673	325	348	324	4 LPA	9.15 LPA	93%

Placement Report 2022-2023- Faculty of Commerce & Management

Sl.No.	Course	Total Students	Students Opted Out	Students Opt IN	Placed Students	Average Package	Highest Package	Percentage
1	B.Com	116	69	47	47	397000	725000	100
2	M.Com	5	0	5	5	481000	612000	100
3	MBA	44	1	43	43	486000	900000	100
4	BBA	188	108	80	76	407000	917000	93.75
5	BBA-CM	11	8	3	3	362000	546000	100
	Total	364	187	177	174	425442	917000	98

Placement Report 2022-2023- Faculty of Engineering & Applied Science

Sl.No.	Course	Total Students	Students Opted Out	Students Opt IN	Placed Students	Average Package	Highest Package	Percentage
1	MCA	34	5	29	22	393000	700000	75.86
2	BCA	92	50	42	36	462000	800000	85.71
3	Dip-CE	28	25	3	2	180000	180000	66.67
4	Dip-CSE	32	28	4	3	144000	144000	75
5	Dip-EEE	12	3	9	9	228000	228000	100
6	Dip-ME	19	5	14	14	228000	228000	100
7	B.T-CE	12	2	10	10	256000	400000	100
8	B.T-CSE	51	20	31	23	383000	760000	74.19
9	B.T-ECE	4	0	4	3	200000	200000	75
10	B.T-EEE	8	1	7	4	323000	400000	57.14
11	B.T-ME	17	0	17	17	233000	400000	100
	Total	309	139	170	141	338387	800000	83

Placement Report 2022-2023- Faculty of Engineering & Applied Science

Sl.No.	Course	Total Students	Students Opted Out	Students IN	Placed Students	Average Package	Highest Package	Percentage
1	BA-Eng	-	-	7	7	520000	800000	100
	Total	-	-	7	7	520000	800000	100



DIGITAL & INFORMATICS TEAM

The Digital & Informatics Team at Sarala Birla University continues to play a critical role in enabling the institution's growth and success. Over the past year, the IT department has been working diligently to ensure that the university's technological infrastructure remains up-to-date, reliable, and secure. Some of the major achievements of the team this year include: Providing support and arrangements to facilitate various academic and extra-curricular events held throughout the year. Working closely with other departments to identify and address areas where technology can be used to improve operations and processes. Actively supporting all NAAC and other accreditation-related requirements to the IQAC Cell, SBU. The Digital & Informatics Team has also made significant progress in strengthening the university's cybersecurity posture. In response to the growing threat of cyberattacks, the department has implemented a number of security measures and conducted regular training and awareness sessions for faculty, staff, and students. As a result, the university's digital assets and personal data are better protected against cyber threats. Looking ahead, the Digital & Informatics Team will continue to work towards enhancing the university's technological capabilities and improving the quality of services provided to students, faculty, and staff. The department plans to explore new technologies to improve teaching and learning outcomes and to identify opportunities to automate administrative tasks. The Digital & Informatics Team is committed to staying at the forefront of technological innovation to ensure that Sarala Birla University remains a leader in higher education.

Area of Expertise

- **Web Development & Support**
- **Online Classes, Webinar & Digital Collaboration**
- **Training & Workshop for Faculties & Staff**
- **Software Maintenance & Support**
- **Cyber security & Digital Asset Management**



- **Details of Administrative Personnel and Staff**
- **Appointments (Faculty & Staff)**

ADMINISTRATIVE PERSONNEL AND STAFF



A APPOINTMENTS (Faculty & Staff)

TEACHING STAFF LIST DOJ..... 01-07-2022 TO 30-06-2023

Sl. No.	Title	Name of the Teacher	Designation	Department	Date of Joining
1	Mrs	Anjana Kumari Singh	Teaching Associate	Yoga & Naturopathy	06-07-2022
2	Dr	Archana Maurya	Assistant Professor	Yoga & Naturopathy	13-07-2022
3	Dr	Abhishek Chauhan	Assistant Professor	C & M	20-07-2022
4	Prof.(Dr)	Neelima Pathak	Professor	Humanities & Linguistics	05-09-2022
5	Mr	Amrendra Dutt Dwivedi	Teaching Associate	Yoga & Naturopathy	10-09-2022
6	Dr	Dipti Kumari	Assistant Professor	CSE	06-10-2022
7	Dr	Biswarup Samanta	Associate Professor	CSE	10-10-2022
8	Dr	Kunal	Assistant Professor	C & M	10-10-2022
9	Dr	Mukesh Babu Gupta	Assistant Professor	C & M	10-10-2022
10	Dr	Mukesh Kr Singh	Assistant Professor	C & M	10-10-2022
11	Dr	Vidya Jha	Assistant Professor	C & M	12-10-2022
12	Dr	Goutam Tanty	Associate Professor	C & M	27-10-2022
13	Mr	Samrat Banerjee	Assistant Professor	English	27-10-2022
14	Dr	Vidushi Sharma	Assistant Professor	C & M	03-11-2022
15	Dr	Arabinda Bhandari	Associate Professor	C & M	23-11-2022
16	Dr	Atul Kumar Karn	Assistant Professor	C & M	01-12-2022
17	Dr	Durgesh Kumar	Assistant Professor	EEE	02-03-2023
18	Ms	Rupa Verma	Teaching Associate	CSE	10-03-2023
19	Dr	Sandip Kumar Singh Modak	Associate Professor	CSE	29-05-2023
20	Dr	Rohit Kumar Yadav	Assistant Professor	CSE	01-06-2023
21	Dr	Ashish Kumar Sinha	Assistant Professor	CSE	03-07-2023
22	Dr	Shubhrajit Mantry	Professor	Pharmacy	06-07-2023
23	Dr	Sailesh Narayan	Professor	Pharmacy	08-07-2023
24	Mr	Neeraj Nayan	Assistant Professor	C & M	01-08-2023
25	Mr	Pradipta Ray	Assistant Professor	C & M-Statistics	01-08-2023
26	Mr	Kishlay Kumar	Assistant Professor	C & M-Statistics	01-08-2023
27	Mrs	Sweta Kumari	Assistant Professor	Economics	01-08-2023
28	Dr	Anjali Srivastava	Assistant Professor	C & M	02-08-2023

A APPOINTMENTS (Faculty & Staff)

TEACHING STAFF LIST DOJ..... 01-07-2022 TO 30-06-2023

Sl. No.	Title	Name of the Teacher	Designation	Department	Date of Joining
29	Ms	Jagriti	Assistant Professor	Economics	07-08-2023
30	Ms	Ishika Singh	Assistant Professor	English	07-08-2023
31	Dr	Puja Prerna	Assistant Professor	Law	07-08-2023
32	Dr	Raj Kumar Singh	Associate Professor	Law	07-08-2023
33	Ms	Komal Gupta	Assistant Professor	Law	10-08-2023
34	Mr	Rajeev Ranjan	Assistant Professor	Law	10-08-2023
35	Ms	Rashmi Sahay	Assistant Professor	Law	12-08-2023
36	Dr	Prakash Kumar	Assistant Professor	CSE	21-08-2023
37	Dr	Sandeep Choudhary	Assistant Professor	C & M	21-08-2023
38	Dr	Priyanka Mishra	Assistant Professor	English	21-08-2023
39	Dr	Bishnu Charan Rout	Assistant Professor	Mathematics	21-08-2023
40	Mr	Animesh Priyadarshi	Assistant Professor	C & M-Statistics	22-08-2023



REGISTRAR'S SUMMARY REPORT

R REGISTRAR'S SUMMARY REPORT



Five years have passed since the founding of SBU, Ranchi, a prestigious University in Jharkhand. I am thrilled to deliver University's Annual Report for the Session 2022–2023. The University has put its efforts into developing dependable, committed, and goal-oriented teaching curricula with top-notch research. We provide comprehensive education to our pupils, along with a learning environment that strives towards its objectives.

Our university's core has always been its committed, professional teaching faculty. The distinctive characteristics of the faculties of SBU have always been intellectual brilliance, spiritual vibrancy, and social relevance. The curriculum also includes a work component that enables students to increase their knowledge, get experience, and develop their skills and values to realise their full potential and find employment globally. To reflect current trends in the field and to make use of the newest structures, the syllabus for every course is regularly revised.

Collaboration with foreign Universities

SBU has made significant developments in international collaboration and global partnership with some prestigious universities of the world like the University of Minnesota, Berkeley- University of California, etc to ensure international exposure and enrich the academic and professional development of the students.

Achievement of University during 2022-23:

SBU has made a name for itself in the area as one of the most sought-after universities in such a short period. The university had 70 students when it began offering lessons in 2018, and by the end of the previous academic year, there were 4433 students. During the academic year 2022–2023, 45% of all students enrolled in the University's departments were female.

Placement and Internships: There was a concern that there would be fewer options for placement and internship due to the pandemic, which has now reached every country in the world. According to sources, some business placements and internships in India and overseas have been rescheduled. However, thanks to the extra work of SBU's Training & Placement Cell, the majority of its students were hired. Furthermore, by choosing online internships, the tech-savvy placement team and students have found ways to get around the challenges. We may state with pride that SBU was effective in converting the crises into opportunities. The companies that hired the students were Aditya Birla Capital, Byju's, HDFC Mutual Fund, ICICI Prudential, TCS, and Tata AIG.

Life @ SBU:

At Sarala Birla University, we believe that the quality of campus upkeep reflects the quality of education. In keeping with its strong pro-green tradition, no effort is spared in ensuring that the sprawling 55 acres of campus is kept clean, green, and becoming of our lofty educational standards.

At SBU, we have a strict no-tolerance policy towards littering, chewing tobacco, smoking, drinking, and unnecessary usage of plastic and paper.

Central Library:

The University's library contains a substantial and varied collection of books, mostly in the areas of Management, Information Technology, Business, Engineering, Yoga, Language, and Nursing, as well as access to the internet and Wi-Fi. A strong library is the foundation of any educational establishment. In light of this, we have 13000 volumes and 21 journal subscriptions, and plagiarism detection software like Turnitin.

Laboratories and Workshops: SBU believes in imparting strong practical exposure to its students. Modern laboratories, workshops, and studios are an integral part of the various departments of the University. Each department maintains its specialized labs and workshops, equipped with modern equipment's of industry standards. Labs at SBU can compete with any Institution of national repute. With the financial support of SBU management and the expertise of the concerned faculty and outside experts, we established several new labs in ECE, EEE, ME, CE, CSE and Yoga last year.

Seminar Halls:

Sarala Birla University provides audio-visual equipped Seminar Halls. For large gatherings, the B. K. Birla Auditorium is being used. It is fully air-conditioned has a capacity of 800+ audience and is equipped with all the latest technological gadgets. Shortly we are going to inaugurate the "G.D Birla Auditorium" on the campus with 400 sitting capacities for our students.

Hostels:

All courses offer accommodation for male and female students, depending on space, which is permitted in the dorm based on bed availability. With a total of 170 beds for girls and 175 beds for boys, we have secure residential facilities for both boys and girls. To extent the facilities we are going the inaugurate Boys' hostels and girls' hostels of 658 bed capacities as soon as possible.

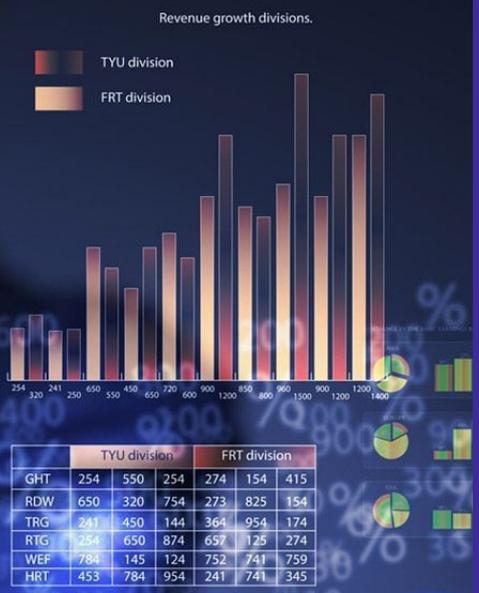
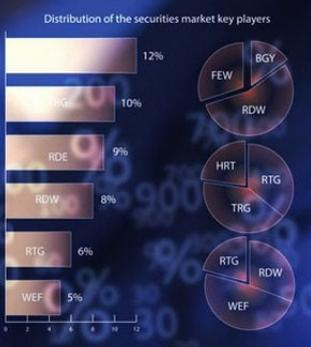
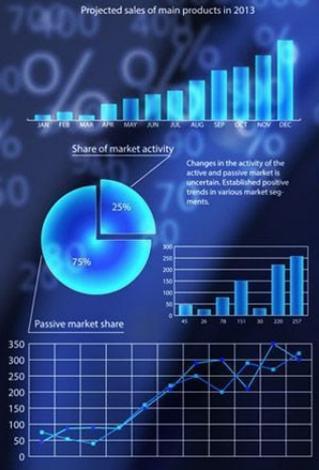
In addition to having a constant supply of normal water, purified drinking water, and electricity, the hostels also have their own housekeeping staff. With a team of wardens (both male and female) residing on the hostel grounds, they have 24-hour security.

Cafeteria:

SBU features a reputable cafeteria and restaurant on campus called "Die Mensa" and its extension outlet of 500 capacities serves a variety of cuisines to the students and staff. The university's students and employees can meet their needs through the extremely hygienic culinary facilities that are offered.

Transport:

The university operates a fleet of buses for the convenience of its students and staff due to the high number of day scholars. SBU operates 15 buses in total, serving all routes throughout Ranchi while upholding punctuality and safety.



	TYU division		FRT division	
GHT	254	550	254	154
RDW	650	320	754	825
TRG	241	450	144	954
RTG	254	650	874	125
WEF	784	145	124	741
HRT	453	784	954	241

FINANCIAL REPORT

MADAN LAL & ASSOCIATES

Chartered Accountants

CA P .K Agarwal

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INDEPENDENT AUDITOR'S REPORTTo the Members of **BHARAT AROGYA & GYAN MANDIR****Report on the Audit of the Financial Statements**

We have audited the financial statements of **SARALA BIRLA UNIVERSITY ("the University")**, an Educational Unit of **BHARAT AROGYA & GYAN MANDIR ("the Society")** of 9/1, R.N. Mukherjee Road, Kolkata 700 001, a society registered under the West Bengal Societies Registration Act, 1961 which comprise the Balance Sheet as at **31st March 2023**, the Income & Expenditure Account for year then ended, and a summary of significant accounting policies and other explanatory information.

In our opinion and to the best of our information and according to the explanations given to us, the financial statements, subject to and read with notes appearing thereon, give the information required by the Regulation in the manner so required and subject to notes appearing in schedule "B" thereon give a true and fair view in conformity with the accounting principles generally accepted in India:

- a) in the case of the Balance Sheet, of the state of affairs of the University as at 31st March 2023;
- b) in the case of the Income & Expenditure Account, of the Surplus for the year ended on that date.

Basis of Opinion

We conducted our audit in accordance with the Standards on Auditing (SAs) issued by ICAI. Our responsibilities under those Standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are independent of the Society in accordance with the Code of Ethics issued by ICAI and we have fulfilled our other ethical responsibilities in accordance with the Code of Ethics. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Responsibilities of Management and Those Charged with Governance for the Financial Statements

The Society's Management is responsible for preparation of these financial statements that give a true and fair view of the financial position, financial performance, and cash flows of the University in accordance with its Regulations and the accounting principles generally accepted in India. This responsibility design, implementation and maintenance of adequate internal controls relevant to the preparation and presentation of the financial statement that give a true and fair view and are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, the Management is responsible for assessing the University's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless the management either intends to liquidate or to cease operations, or has no realistic alternative but to do so.

MADANLAL & ASSOCIATES*Chartered Accountants***Independent Auditors' Report (cont'd....)**

Those charged with governance are also responsible for overseeing the University's financial reporting process.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with SAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements

As part of an audit in accordance with SAs, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the University's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the University's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the University to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

Materiality is the magnitude of misstatements in the financial statements that, individually or in aggregate, makes it probable that the economic decisions of a reasonably knowledgeable user of the financial statements may be influenced. We consider quantitative materiality and qualitative factors in (i) planning the scope of our audit work and in evaluating the results of our work; and (ii) to evaluate the effect of any identified misstatements in the financial statements.

MADANLAL & ASSOCIATES

Chartered Accountants

Independent Auditors' Report (cont'd....)

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

Report under Other Legal and Regulatory

With respect to other matters to be included in the Auditor's Report, in our opinion and to the best of our information and according to the explanations given to us, we also report that:

- a. We have sought and obtained all the information and explanation, which to the best of our knowledge and belief were necessary for the purpose of our audit.
- b. In our opinion, proper books of account as required by law have been kept by the University, so far as it appears from our examination of those books.
- c. The Balance Sheet, and the Income and Expenditure account dealt with by this report are in agreement with the books of account.
- d. In our opinion, the Balance sheet and the Income & Expenditure account, dealt with by this report have been prepared in compliance with the Accounting Standards to the extent applicable to the University.

For MADANLAL & ASSOCIATES
Chartered Accountants
Firm Regn. No 322158E


(Pawan Kumar Agarwal)
Proprietor
MN- 055900

Place : Kolkata
Dated, the 12th day of September, 2023

Consolidated UDIN - 230559001348LC17399



SARALA BIRLA UNIVERSITY
P.O. MAJHLONG, RANCHI-835103
(A UNIT OF BHARAT AROGYA AND GYAN MANDIR, KOLKATA)

BALANCE SHEET AS AT 31st March 2023

LIABILITIES	AMOUNT (Rs)	ASSETS	AMOUNT (Rs)	AMOUNT (Rs)
HEAD OFFICE ACCOUNT		PROPERTY, PLANT & EQUIPMENT (including WIP)		
As per Accounts		As per Schedule 'A' attached		73,41,58,323.00
INCOME & EXPENDITURE A/c		CURRENT ASSETS		
Opening Accumulated Balance	-23,77,726.12	Inventories & Consumable Stock	1,78,337.00	
Add: Excess of Income over Expenditure for the year as per I & E A/c	97,06,168.19	Stock of Calcectria	4,70,013.49	6,48,350.49
		Receivable from Students (net)		8,92,40,237.14
ENDOWMENT FUND		(Considered good by the Management)		
SECURED LOAN		Cash and Bank Balances	1,87,196.00	
Vehicle Loan from Banks	4,42,06,097.00	Cash in Hand	78,04,408.09	
Term Loan from Kotak Mahindra Bank	9,11,83,360.84	HDFC Bank	26,23,355.22	
		Indian Overseas Bank	10,13,950.90	
		Indian Overseas Bank - Department of Law	17,999.13	
		Kotak Mahindra Bank OD A/c	1,92,190.27	
		Kotak Mahindra Bank	29,62,876.00	1,48,01,975.61
		Ujjivan Small Finance Bank		
CURRENT LIABILITIES & PROVISIONS		Fixed Deposits with banks (including accrued interest)		
Liability for Expenses and Other Payables	1,05,43,758.00	FD with ICI/ Bank against Endowment Fund	4,04,37,661.00	
Liability for Other Finance	9,32,801.00	FD with HDFC Bank	10,02,521.00	4,14,40,182.00
Caution Money -Deposits From Students	2,15,28,400.00			
		LOANS & ADVANCES (Unsecured, considered good by the Management)		
		Advances for Capital Goods	1,07,53,562.00	
		Advance to Staff	71,133.00	
		Other Advances	99,46,097.35	
		Security Deposits	18,72,566.00	2,26,43,358.35
				90,29,32,426.59

Significant Accounting Polices and Notes on Accounts - Schedule 'B'

In terms of our report of even date.

For MADAN LAL & ASSOCIATES
Chartered Accountants
Firm Regn No 322158E



(P.K. Agarwal)
Proprietor
Mem. No- 055900

Place: Kolkata
Dated: 12th September 2023

SARALA BIRLA UNIVERSITY

P.O. MAHILONG, RANCHI-835103

(A UNIT OF BHARAT AROGYA AND GYAN MANDIR, KOLKATA)

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31st March 2023

EXPENDITURE		AMOUNT (Rs)	INCOME		AMOUNT (Rs)
To	Salary.P.F. ESIC.HRA & Other Benefits	8,40,04,837.00	By	<u>Academic Receipts</u>	
"	Advertisement, Tour & Promotion Expenses	1,30,74,027.17		Admission/Registration Fees	2,02,98,000.00
"	Bank Charges & Processing Fees	3,05,992.07		Tuition Fees	19,85,76,491.00
"	Books & Periodical	90,092.00		Hostel Fees	1,79,89,000.00
"	Computer Repairs and Maintenance	11,72,965.00		Development Fees	1,60,77,500.00
"	Conveyance & Travelling Expenses	20,96,317.00		Examination Fees	1,52,33,000.00
"	Electricity & Maintenance	35,54,104.00		Bus/Transportation Fees	76,84,500.00
"	Educational Project Expenses	2,04,31,934.00		Forms and Prospectus Fees	20,24,000.00
"	Events, Functions & Programme	15,67,275.34		Misc. Fees, ICT Fee, Other Fees, Enrolment Fee etc	76,05,665.00
"	Examination Expenses	48,49,351.30			28,54,88,156.00
"	Generator Fuel Expenses	25,46,403.00			
"	Garden Expenses	13,25,240.00			
"	General & Misc. Expenses	17,18,868.25	"	Interest on Fixed Deposits	29,31,232.00
"	Hostel Expenses- Others	90,57,281.00	"	Interest on Savings Bank	6,04,504.00
"	Fee Receivable written off	55,25,410.00			35,35,736.00
"	Interest on Vehicle Loan	26,69,035.00			
"	Interest on Delayed Deposit of TDS	42,945.00	"	Other Misc. Receipts	55,140.10
"	Interest on Term Loan & Overdraft	97,92,999.80			
"	Insurance Premium- Building & Others	2,93,822.00			
"	Sanitisation and Disinfection Expense	3,39,641.00			
"	Legal & Professional Fees	1,31,600.00			
"	Laboratory Expenses	2,61,171.00			
"	Repairs & Maintenance- Others	97,54,385.00			
"	Sanitation & Water Supply Expenses	31,69,798.00			
"	Rent for Hostel	57,76,200.00			
"	Stationery & Printing	11,77,871.38			
"	SBU Cafeteria expenses (net)	16,72,313.84			
"	Staff and Employee Welfare Exp	8,44,743.00			
"	Telephone, Bulk SMS, Internet Exp	13,46,136.00			
"	<u>Transportation Expenses</u>				
	Insurance Transportation	2,26,415.00			
	Petrol And Diesel	50,96,239.00			
	Transportation Expenses	13,82,903.00			
	Repairs & Maintenance Transportation	8,06,662.00			
"	ERP, Software & Website Expenses	8,02,495.76			
"	Statutory Audit Fees	50,000.00			
"	Uniform Expenses	5,66,422.00			
"	Donations Given	25,00,000.00			
"	Depreciation	7,93,48,969.00			
"	Balance being excess of Income over Expenditure trfd. To Head Office	97,06,168.19			
		28,90,79,032.10			28,90,79,032.10

Significant Accounting Policies and Notes on Accounts - Schedule 'B'

In terms of our report of even date.

For MADAN LAL & ASSOCIATES

Chartered Accountants

Firm Regn No 322158E

(P. K. Agarwal)

Proprietor

Mem. No- 055900

Place: Kolkata

Dated: 12th Sept 2023



SARLA BIRLA UNIVERSITY
P.O. MAHLONG, RANCHI-835103
 (A UNIT OF BHARAT AROGYA AND GYAN MANDIR, KOLKATA)

SCHEDULE 'A' :- PROPERTY, PLANT & EQUIPMENT AS ON 31.03.2023
Annexed to Balance Sheet as at 31st March 2023

SL NO	DESCRIPTION OF ASSETS	RATE OF DEP.	op W.D.V. AS ON 01.04.2022	ADDITION		DEDUCTION DURING YEAR	TOTAL (Rs.)	DEPRECIATION FOR THE YEAR	CI W.D.V. AS ON 31.03.2023
				More than 180 days	Less than 180 days				
1	COMPUTER & ACCESSORIES	40%	71.33,173.00	28.04,245.00	7.04,729.00	-	1,06,42,147.00	41,15,913.00	65,26,234.00
2	FURNITURE & FIXTURES	10%	7,58,22,441.00	1,02,23,184.00	1,15,79,601.00	-	9,76,25,226.00	91,83,543.00	8,84,41,683.00
3	LABORATORY CHEMICAL & EQUIPMENT	15%	1,09,38,151.00	-	4,35,979.00	-	1,13,74,130.00	16,73,421.00	97,00,709.00
4	UTENSILS, KITCHENWARE & CANTEN EQUIPMENT	15%	17,73,306.00	14,14,948.00	15,59,900.00	-	47,48,154.00	5,95,231.00	41,52,923.00
5	ELECTRIC INSTALLATION	15%	2,31,37,247.00	4,21,968.00	9,30,174.00	-	2,44,89,389.00	36,03,645.00	2,08,85,744.00
6	LIBRARY BOOKS	40%	11,95,826.00	1,70,101.00	18,02,387.00	-	31,68,314.00	9,06,848.00	22,61,466.00
7	MOTOR VEHICLE	15%	91,67,449.00	1,28,39,211.00	3,13,91,073.00	-	5,33,97,733.00	56,55,329.00	4,77,42,404.00
8	TUBE WELL, SANITATION & WATER SUPPLY	15%	12,40,298.00	6,74,978.00	1,74,275.00	-	20,89,551.00	3,00,362.00	17,89,189.00
9	AIR CONDITIONER	15%	54,79,261.00	2,83,150.00	86,000.00	-	58,48,411.00	8,70,812.00	49,77,599.00
10	AUDIO, VIDEO & DIGITAL EQUIPMENTS, CCTV, FREEZE, LIFT	15%	6,29,262.00	2,97,460.00	10,03,739.00	-	19,30,461.00	2,14,289.00	17,16,172.00
11	LIFT	15%	43,57,123.00	-	25,28,453.00	-	68,85,576.00	8,43,202.00	60,42,374.00
12	NATUROPATHY EQUIPMENT	15%	1,80,867.00	-	-	-	1,80,867.00	27,130.00	1,53,737.00
13	BLOCK: BUILDING	10%	8,22,82,532.00	43,05,19,188.00	11,24,075.00	-	51,39,25,795.00	5,13,36,376.00	46,25,89,419.00
14	SPORTS EQUIPMENT	15%	-	1,52,456.00	-	-	1,52,456.00	22,868.00	1,29,588.00
15	WORK IN PROGRESS (Building WIP, Furniture WIP, Other WIP)#	0%	37,83,25,341.00	1,40,68,953.00	2,59,88,240.00	34,13,33,452.00	7,70,49,082.00	-	7,70,49,082.00
			60,16,62,277.00	47,38,69,842.00	7,93,08,625.00	34,13,33,452.00	81,35,07,292.00	7,93,48,969.00	73,41,58,323.00

Note: # - Deduction from Work In Progress includes Rs 800000/- transferred to Sarala Birla Public School- (Inter Unit)- under Furniture WIP and subsequently to Block Furniture of SBPS

Note: # - Deduction from Work In Progress includes Rs 2793291 /- transferred to Sarala Birla Public School- (Inter Unit)- under Building WIP of SBPS

Note: # - Deduction from Work In Progress includes Rs 193783/- transferred to Mahadevi Birla Institute of Nursing & Clinical Technology- (Inter Unit)- under Furniture WIP



SARALA BIRLA UNIVERSITY
P.O. MAHILONG, RANCHI-835103
(A UNIT OF BHARAT AROGYA AND GYAN MANDIR, KOLKATA)

Schedule 'B'

Significant Accounting Policies and Notes on Accounts for the year ended 31st March, 2023

A. SIGNIFICANT ACCOUNTING POLICIES

1 **Accounting Concepts**

- i The accounts are prepared on the historical cost basis and on accrual basis of accounting as a going concern and in accordance with the generally accepted accounting principles.
- ii Accounting policies not specifically referred to otherwise are consistent and in consonance with generally accepted accounting principles.

2 **Recognition of Income & Expenditure**

Fees from students comprising of Tuition Fees, Session Fee, Development fees, Examination Fee, ICT Fees is recognised on semester wise basis. While other Fees being Application fees, Bus Fee, Latp Fee, Fines, Admission fee, Hostel Fee, Re-registration fee are recognised on cash basis
Interest income is recognised on time proportion basis.
Expenses are accounted for on accrual basis.
Subsidy from government, if any, are accounted for on receipt basis.

3 **Inventories**

Inventories, being consumable in nature are valued at cost on FIFO Basis.

4 **Property, Plant & Equipment**

Property, Plant and Equipment are stated at cost less accumulated depreciation.
Cost includes all expenses attributable to bringing the assets to its intended use. Projects under Commissioning and other Capital Works-in-Progress are carried at cost, comprising direct cost and related incidental expenses including attributable borrowing costs.

5 **Depreciation**

Depreciation is provided in the books on Written Down Value method at rates prescribed in the Income Tax Rules, 1962, as amended.

6 **Retirement Benefits**

Gratuity, leave encashment and other retirement benefits, if any, is accounted for as and when paid.

8 **Borrowing Costs**

Borrowing costs that are attributable to the acquisition or construction of qualifying assets are capitalised as part of the Cost. A qualified asset is one that necessarily takes substantial period of time to get ready for intended use. All other borrowing are charged to Income & Expenditure Account.

7 **Provisions and Contingencies**

A provision is recognized if, as a result of a past event, the Entity has a present legal obligation that can be estimated reliably, and it is probable that an outflow of economic benefits will be required to settle the obligation. Provisions are determined by the best estimate of the outflow of economic benefits required to settle the obligation at the balance sheet date.

Contingent Liabilities are not provided for and are disclosed by way of Notes on Accounts.

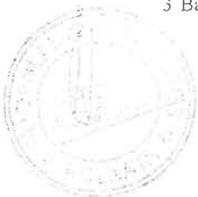
Contingent Assets are neither recognised nor disclosed in the Financial statements.

8 **Use of Estimates**

In preparing the financial statements in conformity with the generally accepted accounting principles, the management is required to make estimates and assumptions that may affect the reported amount of assets and liabilities and disclosure of contingent liabilities as at the date of financial statements and the amount of revenue and expenses during the reported period. Actual results could differ from those estimates. Any revision to such estimates is recognised in the period the same is determined.

B. NOTES ON ACCOUNTS

- 1 Gratuity, leave encashment and other retirement benefits, if any, is accounted for as and when paid
- 2 Contingent Liabilities : NIL
- 3 Balances of Receivable, Advances, Creditors are subject to Confirmation and reconciliations.



In terms of our report of even date,
FOR MADAN LAL & ASSOCIATES
Chartered Accountants
Firm Regn No 322158E

(P.K. Agarwal)

Proprietor

Place: Kolkata

Dated: 12th September 2023

Mem. No- 055900

SBU LABORATORIES



SBU GALLERY



SBU GALLERY

