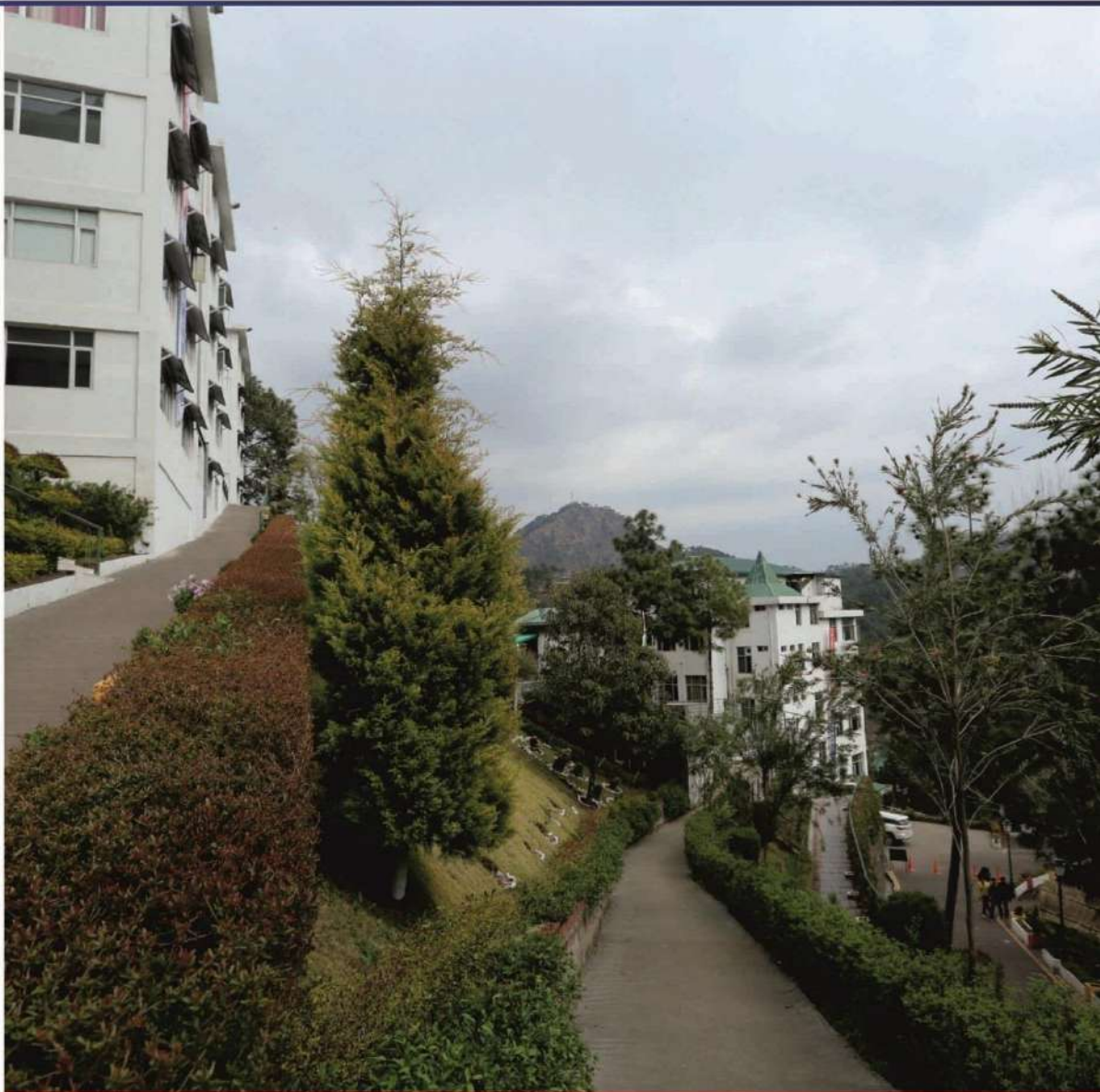


**SHOOLINI
UNIVERSITY
SOLAN, HP**

ANNUAL REPORT



For Academic Year 2022-23

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CHAPTER- I GOVERNANCE, LEADERSHIP AND MANAGEMENT

1.1 Institutional Vision and Leadership

Shoolini University's focus on excellence is evident in its vision statement and its governance, leadership and practices are aligned to it. The university's compliance with the National Education Policy, commitment to sustained growth, and inclusive decision-making reflects a thoughtful approach to education that goes beyond mere academics and ensures and forward-looking institution, poised to make a significant global impact.

The management proactively started adopting the NEP 2020 after its announcement and continues its effort to implement it in letter and spirit

Implementation of NEP 2020 at Shoolini University

Introduction of four-year undergraduate programs with multiple exit options

Multidisciplinary Education with a choice-based flexible curriculum

Credit transfer and Academic Bank of Credits to facilitate the mobility of students across institutions and disciplines.

Emphasis on digital literacy and integration of technology

Major and minor options across programs with skill-based courses and internships embedded in the curriculum

Sustained Growth

With a vision of being a top global university and a mission that focuses on excellence in academics and research the leadership takes a holistic view of growth. The salient points of efforts around sustained growth are

Curriculum and Faculty Development: developing new courses in high-demand fields such as data science, artificial intelligence, and environmental sustainability and providing faculty with opportunities for research grants, and professional development workshops.

Research and Innovation: Establishing innovation hubs and hosting conferences and symposiums to showcase the work of faculty and students.

Student Enrolment and Support: Offering scholarships and financial aid packages to attract and support students from diverse backgrounds.

Infrastructure and Technology: Building state-of-the-art laboratory facilities and upgrading existing ones and investing in virtual learning platforms to enhance digital learning experiences. Community and Alumni Engagement Outreach programs that involve students and faculty and creating an alumni network platform to facilitate connections, mentorship opportunities etc.

Sustainable Practices: Integrating sustainability into the curriculum and research projects to promote environmental awareness and adopting energy-efficient building designs and waste reduction initiatives Decentralized and Participative Decision Making The decision-making and governance at Shoolini University is decentralized as well as inclusive. This has been possible by establishing clear communication channels and regular meetings and feedback mechanisms to engage diverse stakeholders and ensuring

transparency. The Global Advisory Board brings international perspective while bodies like the Academic Council and Joint Research Development Advisory Committee ensures participative decision making.

Short-Term and Long-Term Institutional Perspective Plan Shoolini University's leadership has a well-defined plan, aligned with its vision and mission. The short term focuses on updating curricula, enhancing faculty development, upgrading labs, classrooms, and IT infrastructure, and strengthening student support services. It also emphasizes exploring diverse revenue sources to ensure financial stability. The Long-Term plan is to develop interdisciplinary programs and centers of excellence, expand sustainable campus facilities, and increase student enrolment and diversity. It also focuses on fostering global collaborations, smart campus technologies and strengthening governance, alumni networks, and industry partnerships. The university is committed to strive for international recognition and improved global ranking.

1.2 University practices such as decentralization and participative management.

Effective implementation of the Institutional Perspective Plan ensures that institutional bodies operate efficiently and effectively, adhering to well-defined policies, administrative setups, appointment procedures, service rules, and other organizational processes. Here's how these elements contribute to the robust functioning of the university:

Policies and Strategic Planning

1. Comprehensive Policy Framework:

Academic Policies: Guidelines for curriculum development, assessment methods, and academic integrity are in place and updated regularly.

Research Policies: Clear directives for research funding, ethical guidelines, and publication protocols. Establishing research committees further supports these initiatives.

Student Policies: Comprehensive student handbooks detail codes of conduct, grievance redressal mechanisms, and support services

2. Strategic Planning:

The institutional perspective plan is crafted with a clear vision and mission, incorporating short-term and long-term goals. Regular reviews and updates ensure the plan remains relevant and responsive.

Administrative Setup

1. Organizational Structure:

Hierarchical Structure: Clear roles and responsibilities for governing bodies like the Board of Governors, academic council, and departmental committees.

Central Administration: Offices such as the Registrar, Finance, and Human Resources handle day-to-day operations, ensuring smooth administrative functioning.

2. Decentralization:

Empowering departments and faculties with autonomy in decision-making fosters innovation and responsiveness, encouraging tailored solutions for specific departmental needs.

Appointment and Service Rules

1. Transparent Appointment Procedures:

Recruitment Process: A transparent and merit-based recruitment process for faculty and administrative staff -includes advertisements, screening, interviews, and selection based on predefined criteria.

Orientation Programs: New hires undergo comprehensive orientation to familiarize them with institutional policies, culture, and expectations.

2. Service Rules and Professional Development:

Service Contracts: Clear service contracts outline roles, responsibilities, performance expectations, and benefits, ensuring mutual understanding and commitment.

Professional Development: Regular training and development programs for faculty and staff

Procedures and Efficiency

1. Standard Operating Procedures (SOPs): SOPs are established for critical functions such as admissions, examinations, financial transactions, and facility management. These procedures standardize operations, ensuring consistency and reliability. Regular audits and evaluations identify areas for improvement, ensuring the institution's operations are continually refined and optimized.

2. Technology Integration: **Digital Platforms:** Utilizing digital platforms for administrative tasks, learning management, and communication streamlines operations. Online portals for admissions, attendance, and academic records enhance efficiency and accessibility. **Data-Driven Decision Making:** Implementing data analytics in decision -making processes allows for informed and strategic choices, improving overall institutional effectiveness.

3. Governance and Accountability

1. Governance Structure: A robust governance structure with clear roles and responsibilities ensures accountability and transparency. This includes regular meetings of the Board of Governors, academic council, and various committees to review progress and make strategic decisions. **Stakeholder Involvement:** Involving stakeholders such as faculty, students, alumni, and industry partners in governance processes ensures diverse perspectives and inclusivity in decision-making

2. Accountability Mechanisms: **Performance Appraisal:** Regular performance appraisals for faculty and staff assess their contributions and identify areas for development. Feedback mechanisms ensure continuous improvement.

Grievance Redressal: Effective grievance redressal mechanisms address concerns and disputes promptly and fairly this systematic approach not only enhances operational efficiency but also fosters a culture of continuous improvement and accountability, driving the institution toward sustained growth and success.

1.3 Faculty Empowerment Strategies

Shoolini University has established a comprehensive and transparent performance appraisal system for both teaching and non-teaching staff, ensuring that excellence in various domains is recognized and rewarded.

- **Performance Appraisal System**

For Faculty: The appraisal system for faculty considers four key performance parameters:

Teaching Effectiveness

Research and Innovation Contributions

Participation and Contributions Beyond Teaching and Research

Personal Development and Leadership

For Non-Teaching Staff: Evaluation is conducted through 'My Impact Plan', focusing on:

Top 3 Targets for the Year

Self-Development

Contribution to the University

Appraisal System Process Flow:

Goal Setting (January):

Individual consultation with employees to establish clear, measurable goals for the year.

Creation of 'My Impact Plan' for non-teaching staff, including the top 3 targets for the year, self-development, and contribution to the university.

For faculty, setting expectations regarding teaching, research/innovation, contribution to the university, and personal development/leadership.

Mid-Year Review (June-July):

Formal meeting with each employee to assess progress against goals.

Identification of any support or resources needed.

Adjustment of goals if necessary, considering changes in roles or responsibilities.

Self-Assessment (December):

Employees complete a self-assessment, detailing their achievements, challenges, and contributions over the year.

Opportunity for reflection and personal growth.

Reporting Manager Evaluation (December-January):

Managers conduct an evaluation of each employee based on performance parameters.

Consideration of peer and subordinate feedback if applicable.

Appraisal Committee Review (February):

Employees present their achievements and contributions to the Appraisal Committee.

The committee evaluates performance against established criteria.

Provision for feedback and discussion.

Determining Rewards (March):

Based on the appraisal, decisions are made regarding annual increments, incentives, and promotion avenues.

Consideration of university policies and budget constraints.

Communicating Appraisal Results (March-April):

Individual meetings to discuss appraisal results, rewards, and areas for growth and development.

Opportunities for dialogue and clarification.

Implementation of Rewards (April):

Revision of compensation and other rewards implemented as per appraisal outcomes.

Continuous Feedback (Throughout the Year):

Encouragement of regular communication and feedback between managers and employees.

Ongoing support for professional development.

• Welfare Measures

Shoolini University is committed to the welfare of its employees and offers various benefits, including:

Employee State Insurance scheme for eligible staff.

On-campus medical facilities and medical leave provision.

Exclusive women's center facilities, including a crèche.

Subsidized transportation and special facilities for differently-abled employees.

Incentives for higher qualifications, research grants, and conference attendance.

Celebrations and bonuses during festivals, monthly birthday celebrations, and free education for employees' children.

Golden Rudraksha Awards, "Pat on the Back" awards, and support classes for employees' children.

Provident Fund, ESI, Gratuity, maternity benefits, and other statutory benefits.

A 2-week free yoga certification program – Live Love Yoga.

The University's inclusive approach also focuses on hiring partner couples and providing campus accommodation.

- **Career Development and Progression**

The University offers regular trainings and faculty development programs for its faculty and staff members using internal and external experts. AIU's Academic and Administrative Development center was awarded to Shoolini University in 2022 and several trainings to upskill the staff and faculty been conducted under its aegis. The personal coaching offered through a joint effort with ICF (International Coaching Federation) is also available to select faculty members. Faculty are also encouraged to take courses on platforms like Swayam and Coursera to upgrade their knowledge in various domains

Faculty and staff are encouraged to apply for any open, advertised positions in the University. Any position for promotion is also advertised internally. Clear career paths are maintained and communicated to all employees.

1.3.1 Teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies

Name of teacher	Name of conference/workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
Amita Verma	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Anita Chauhan	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Anshul Jamwal	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Ashwani Kumar Sharma	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Azhar Khan	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Bhagyashree Bhatt	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Bharti Thakur	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000

Bhupender Kumar	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Deepika Sood	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Devanshi Pandit	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Dinesh Kumar	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Divakar Sharma	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Ekta Singh	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Gagan Mehta	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Hemlata Kaurav	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Isha Jaswal	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Ishani Vaidya	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Itika Kainthla	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Jyoti Mehta	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Kartikeya Choudhary	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Kishan Chandra Sharma	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Lokender Kumar	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000

Mala Tripathi	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Mohindra Singh Thakur	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Muntazir Mushtaq	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Navneet Kumar Upadhyay	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Neeraj Gandotra	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Neeraj Kumar	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Nidhi Sharma	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Nisha Kapoor	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Nitin Kumar	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Palak Sharma	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Pankaj Kumar Chauhan	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Perminder Singh Brar	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Pooja Verma	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Poonam	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Poonam Pant	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000

Pradeep	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre,Shoolini University	6000
Prakash Chand	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre,Shoolini University	6000
Priyanka Chauhan	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre,Shoolini University	6000
Priyanka Kumari	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre,Shoolini University	6000
Priyanka Sehrawat	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre,Shoolini University	6000
Rachna Verma	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre,Shoolini University	6000
Rahul Yadav	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre,Shoolini University	6000
Raj Kumar Saini	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre,Shoolini University	6000
Ranjeet Singh Bochalya	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre,Shoolini University	6000
Ratika Kayastha	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre,Shoolini University	6000
Raveen Chauhan	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre,Shoolini University	6000
Ritesh Banerjee	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre,Shoolini University	6000
Robin Thakur	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre,Shoolini University	6000
Rohit Chobe	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre,Shoolini University	6000
Ruhi Thakur	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre,Shoolini University	6000

Rupak Nagraik	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Sachin Sharma	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Sahil Kashyap	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Sahil Mohan	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Sakshi Gautam	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Sanchit Thakur	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Sandipta Ghosh	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Sangeeta Kakkar	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Satish Kumar Gupta	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Shubhangi Sood	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Shweta Sharma	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Somesh Sharma	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Sonia	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Subodh Saurabh Singh	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Suman Rawat	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000

Sunil Kumar	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Vandana	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Vijay Kumar	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Vinay Chandel	FDP - Teaching in Higher Education - A New Path	AIU-Academic and Administrative Development Centre, Shoolini University	6000
Dr. Rozy Dhanta	Academic collaboration with the University of Melbourne, Australia	University of Melbourne	200000
Atul Khosla	Academic collaboration with the University of Melbourne, Australia	University of Melbourne	200000
Avnee Gupta	Academic collaboration with the University of Melbourne, Australia	University of Melbourne	200000
Dr. Vandana	International Conference on Recent Advances in Nutraceuticals & Functionals Food	Ajeenkya DY Patil University	12000
Dr. Pardeep Singh	Nanofabrication		5000
	Biomaterials and polymers Horizon		5000
	Materials Horizon from Nature to Nanomaterials		5000
Dr. R.P Dwivedi	Study in India Education Fair Zambia, Zimbabwe		4,15,000
	Study in India Education Fair Bangladesh		2,00,000
	Study in India Education Fair Nepal		45,000
Dr. Sanchit Thakur	Sustainable Agriculture: challenges and opportunities		6000
Mr. Apar Kaushik	Two Days International Conference on Multidisciplinary Research in Economic, Social, Environment and Cultural Impacts of Tourism		7000
Ms. Suman Rawat	International Conference on Yoga in Synergy with Science jointly organised by IYA &		7500

	Department of Yogic Science, Uttarakhand Sanskrit University, Haridwar		
Bhawna Thakur	NPTEL Awareness workshop		5500
Dr. Devanshi Pandit	Confluencing Indigenous and Modern Strategies for Plant Heath Management		8200
Dr. Bhagyashree	Confluencing Indigenous and Modern Strategies for Plant Heath Management		8200
Dr. Deepika Sood	Confluencing Indigenous and Modern Strategies for Plant Heath Management		8200
Dr. Ratika Kayastha	Agro ecology based food Transformation systems		10000
	Climate Resilient Agriculture for Food security and sustainability		6000
Dr. Abhishek Kandwal	Virtual seminar on Sustainable Development Goals NSSDG		5000
	Antenna design and fabrication using Additive Manufacturing Techniques		5000
	Astronomy Workshop "Meet he IAU Astronomers"		5000
Dr. Itika Kainthla	Faculty Development Program on Sustainable Development		6000
	Professional Development Programme on 'Implementation of NEP2020 for University and College Teachers		6400
Dr. Somesh Sharma	International conference on Sustainable approaches in food Engineering and Technology (SAFETy-2022) on 19-20 October organised by Tezpur University, Assam and Sultan Qaboos University, Oman		15000
Dr. Dinesh Kumar	International conference on Sustainable approaches in food Engineering and Technology (SAFETy-2022)		15000

	on 19-20 October organised by Tezpur University, Assam and Sultan Qaboos University, Oman		
	VIIth International conference on Global reasearch initiative for sustainable agriculture & allied sciences, organised by Astha foundation, meerut , U.P., India		12000
Dr. Navreet Sahi	Oral presentation at 22nd MELOW International Conference one hundred years of T.S. Eliot's The Waste Land in Goa		20000
Dr. Sanchit Thakur	Faculty development Program on Tasar Sericulture : A Livelihood for Tribal Population of Indiaorganized by Faculty of Agriculture, Sri Sri University		10000
Prof. P.K Khosla	Fellow: Society of Genetics and Plant Breeding, India		
Dr. Rozy Dhanta	QS Conference, Jakarta, Indonesia		100000
Atul Khosla	QS Conference, Jakarta, Indonesia		100000
Nishtha Anand	QS Conference, Jakarta, Indonesia		100000
	QS Conference, Jakarta, Indonesia		100000
	Workshop on Ranking Improvement in Higher education Institutions		100000
Shubham Verma	Awareness program on Intellectual property Right		100000
	Sixth International Conference on Lean Six Sigma in Higher Education		25,000
Gaurav Gupta	IEEE membership		8770
Dr. Arunava Poddar	Two-Week Short-Term Training Program” on “Geoinformatics related to Remote Sensing, GPS and GIS		52,000

Dr. Ratika Kayastha	Programme on Novel Agricultural Systems		6500
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1.3.2 Professional development / administrative training Programmes organized by the university for teaching and non-teaching staff

Sr.no	Dates	Title of the professional development program organised for teaching staff	No. of participants
1	28-12-2022 to 12-01-2023	9 days FDP on AI for Education	12
2	February-April 2023	Enhancing Soft Skills and Personality	1
3	1-08-2022 to 05-08-2022	Faculty Development Programme on Matlab and Simulink Basic for Hardware Projects	1
4	24-07-2023 to 30-07-2023	FDP - Teaching in Higher Education - A New Path	73
5	14-03-2022 to 18-03-2022	FDP by NITTTR Chandigarh: Secure Website Development through ICT	1
6	30-10-2023 to 03-11-2023	FDP on "Mindfulness: The seed of Happiness"	1
7	01-05-2023 to 05-05-2023	FDP on "Writing research proposals for extramural grants" organized by Graphic era university Dehradun	1
8	9-01-23 to 13-01-23.	FDP on "Current Trends and Futuristic Challenges in Pharmaceutical and Healthcare Sector"	1
9	06-02-2023 to 22-02-2023	FDP on "Geographic Information System & Remote Sensing"	1
10	7-11-22 to 11-11-22	FDP on "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE)	1
11	05-06-23 to 12-06-23	FDP on Advances in Analytical and computational techniques for higher education and research	1
12	28-12-2022 to 12-01-2023	FDP on Artificial Intelligence for Educators	
13	08-05-2023 to 12-05-2023	FDP on Cyber Crime and Forensic Tools	1

14	28-03-2022 to 02-04-2022	FDP on DATA: From Synthesis and Analysis to Connect and Security	1
15	06-02-2023 to 22-02-2023	FDP on Geographic Information System & Remote Sensing	2
16	06-02-2023 to 22-02-2023		
17	21-02-22 to 25-02-22	FDP on Inculcating Universal human values in Technical Education	1
18	14-11-2022 to 18-11-2022	FDP on Latest Analysis and Design Trends for Civil Engineering Structures	1
19	06-11-2023 to 11-11-2023	FDP on Lean Six Sigma for beginners	1
20	01-08-2022 to 05-08-2022	FDP on MATLAB and SIMULINK basics for Hardware Projects	1
21	22-07-2023 to 28-07-2023	FDP on Research methodology, Bibliometric Analysis and data analysis using R	2
22	22-07-23 to 28-07-23	FDP on Tools for Engineering Research	2
23	19-09-2022 to 23-09-2022		
24	19-09-22 to 23-09-22	FDP on Writing Research proposal for extramural Grants	2
25	01-05-23 to 05-05-23	FDP on "Strategies and Planning"	1
26	9-01-2023 to 13-01-2023	Film Appreciation	1
27	July-September 2023	Partition of Indian in Print Media and Cinema	1
28	July-October 2023	Poster presentation in World congress of Basic and clinical Pharmacology	1
29	2-07-23 to 7-07-23	SERB high-end workshop on Computational Genomics and Proteomics	1
30	24-07-22 to 30-07-22	Short Term course on Innovation Ambassador Training 'Advanced Level'	1
31	30-06-2021 to 31-07-2021	Short term course: Antenna design and fabrication using additive manufacturing techniques	1
32	20-03-23 to 24-03-23	Short Term Training program on Advanced Engineering	1

		Optimization Through Intelligent Techniques (AEOTIT)	
33	26-09-22 to 30-09-22	Workshop on “Curriculum Building and CO-PO Attainment Levels”	116

1.3.3 Teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)

Sr. No.	Name of teacher who attended	Title of the program	Duration (from – to) (DD-MM-YYYY)
1	Aarchit Joshi	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
2	Abhishek Kandwal	Short term course: Antenna design and fabrication using additive manufacturing techniques	20-03-23 to 24-03-23
3	Abhishek Kumar Sharma	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
4	Abhishek Tomar	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
5	Aditi Sharma	Poster presentation in World congress of Basic and clinical Pharmacology	2-07-23 to 7-07-23
6		Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
7	Amar Raj Singh	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
8	Amita Verma	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
9		FDP on Geographic Information system and remote sensing	06-02-2023 to 22-02-2023
10	Anita Chauhan	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
11	Ankur Saxena	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
12	Anshul Jamwal	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
13	Anupama Chandel	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023

14		SERB high-end workshop on Computational Genomics and Proteomics	24-07-22 to 30-07-22
15	Anurag Rana	FDP on Tools of Engineering Research	19-09-22 to 23-09-22
16		FDP on DATA: From Synthesis and Analysis to Connect and Security	28-03-2022 to 02-04-2022
17	Arun Parashar	FDP on "Current Trends and Futuristic Challenges in Pharmaceutical and Healthcare Sector"	9-01-23 to 13-01-23.
18	Arunava Poddar	FDP on Geographic Information System & Remote Sensing	06-02-2023 to 22-02-2023
19	Arvind Sharma	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
20	Ashwani Kumar Sharma	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
21		Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
22	Avinash	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
23	Azhar Khan	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
24	B.K. Kaul	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
25	Bhagyashree Bhatt	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
26	Bharti Thakur	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
27	Bhawna Thakur	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
28	Bhupender Kumar	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
29		FDP on Latest Analysis and Design Trends for Civil Engineering Structures	14-11-2022 to 18-11-2022
30	Chaitanya Moudgil	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
31	Chander Mohan Gupta	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023

32	Chandresh Kumari	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
33	Chetna	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
34	Deepika Sood	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
35	Devanshi Pandit	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
36	Dinesh	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
37	Dinesh Kumar	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
38		9 days FDP on AI for Education	28-12-2022 to 12-01-2023
39	Divakar Sharma	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
40		FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
41	Ekta Bala	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
42	Ekta Singh	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
43		Enhancing Soft Skills and Personality	February-April 2023
44		Film Appreciation	July-September 2023
45		Partition of Indian in Print Media and Cinema	July-October 2023
46	Gagan Mehta	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
47	Gaurav Gupta	Faculty Development Programme on Matlab and Simulink Basic for Hardware Projects	1-08-2022 to 05-08-2022
48		FDP on Tools for Engineering Research	19-09-2022 to 23-09-2022
49		FDP on "Strategies and Planning"	9-01-2023 to 13-01-2023
50	Gaurav Saxena	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
51	Geetansh	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023

52	Gopal Sharma	Krishan	Workshop on "Curriculum Building and Attainment Levels" CO-PO	17-07-2023 to 22-07-2023
53	Harsha Thakur		Workshop on "Curriculum Building and Attainment Levels" CO-PO	17-07-2023 to 22-07-2023
54	Hemlata Kaurav		FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
55	Het Ram Kashyap		Workshop on "Curriculum Building and Attainment Levels" CO-PO	17-07-2023 to 22-07-2023
56	Himanshu Sharma		Workshop on "Curriculum Building and Attainment Levels" CO-PO	17-07-2023 to 22-07-2023
57	Indu Negi		Workshop on "Curriculum Building and Attainment Levels" CO-PO	17-07-2023 to 22-07-2023
58	Isha Jaswal		FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
59	Ishani Vaidya		FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
60	Itika Kainthla		FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
61			9 days FDP on AI for Education	28-12-2022 to 12-01-2023
62	Jagdeep Sambey		Workshop on "Curriculum Building and Attainment Levels" CO-PO	17-07-2023 to 22-07-2023
63	Jyoti Mehta		FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
64			9 days FDP on AI for Education	28-12-2022 to 12-01-2023
65	Kamal Kant Vashisth		9 days FDP on AI for Education	28-12-2022 to 12-01-2023
66	Kapil Gupta		Workshop on "Curriculum Building and Attainment Levels" CO-PO	17-07-2023 to 22-07-2023
67	Kartikeya Choudhary		FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
68			Workshop on "Curriculum Building and Attainment Levels" CO-PO	17-07-2023 to 22-07-2023
69	Kesari Singh		Workshop on "Curriculum Building and Attainment Levels" CO-PO	17-07-2023 to 22-07-2023
70	Kiran		Workshop on "Curriculum Building and Attainment Levels" CO-PO	17-07-2023 to 22-07-2023
71	Kishan Sharma	Chandra	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023

72	Kritika Rana	FDP by NITTTT Chandigarh: Secure Website Development through ICT	14-03-2022 to 18-03-2022
73	Kunwar Siddarth Dadhwal	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
74	Lalit	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
75	Lokender Kumar	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
76	Mahesh	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
77	Mala Tripathi	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
78	Mamta Shandilya	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
79	Mohindra Singh	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
80	Thakur	9 days FDP on AI for Education	28-12-2022 to 12-01-2023
81	Monika	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
82	Muntazir Mushtaq	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
83	Namita Gandotra	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
84	Nand Lal Gupta	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
85	Narinder Verma	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
86	Navneet Kumar Upadhyay	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
87		FDP on "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE)	7-11-22 to 11-11-22
88		FDP on Writing Research proposal for extramural Grants	01-05-23 to 05-05-23
89		Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023

90	Navreet Kaur Sahi	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
91		9 days FDP on AI for Education	28-12-2022 to 12-01-2023
92	Navsal Kumar	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
93	Neeraj Gandotra	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
94	Neeraj Kumar	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
95	Neha	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
96	Nidhi	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
97	Nidhi Sharma	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
98	Nisha Kapoor	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
99	Nitika Thakur	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
100	Nitin Kumar	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
101	Nitin Kumar Sharma	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
102	Paarth Sharma	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
103	Palak Chauhan	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
104	Palak Sharma	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
105	Pankaj Kumar Chauhan	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
106		Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
107	Pankaj Raizada	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
108	Pankaj Vaidya	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023

109	Pardeep Singh	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
110	Pawan Kumar	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
111	Pawan Sharma	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
112	Perminder Singh Brar	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
113	Pooja Devi	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
114	Pooja Dhiman	9 days FDP on AI for Education	28-12-2022 to 12-01-2023
115		Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
116	Pooja Verma	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
117		9 days FDP on AI for Education	28-12-2022 to 12-01-2023
118		Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
119	Poonam	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
120		FDP on Research methodology, Bibliometric Analysis and data analysis using R	22-07-2023 to 28-07-2023
121		Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
122	Poonam Nanda	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
123	Poonam Pant	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
124		Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
125	Prachi Agrawal	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
126	Pradeep	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
127	Pradeep Kumar	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023

128	Prakash Chand	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
129	Prakrati Garg	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
130	Praveen Kumar	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
131	Preeti Sharma	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
132	Priyanka	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
133	Priyanka Chauhan	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
134		Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
135	Priyanka Kumari	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
136		FDP on "Mindfulness: The seed of Happiness"	30-10-2023 to 03-11-2023
137		FDP on Lean Six Sigma for beginners	06-11-2023 to 11-11-2023
138		Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
139	Priyanka Sehrawat	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
140	Puneet Kapoor	Short Term Training program on Advanced Engineering Optimization Through Intelligent Techniques (AEOTIT)	26-09-22 to 30-09-22
141	Rachna Verma	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
142		Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
143	Radha	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
144	Radheshyam Rai	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
145	Rahul Yadav	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023

146	Raj Kumar	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
147	Raj Kumar Saini	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
148		Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
149	Rajendra Kumar	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
150	Rajesh Williams	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
151	Rakesh Kumar Shukla	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
152	Ram Prakash Dwivedi	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
153	Ranjeet Singh Bochalya	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
154		FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
155	Ranjna Thakur	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
156	Ratika Kayastha	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
157	Raveen Chauhan	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
158	Ravikant	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
159	Ravinder Kumar Thakur	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
160	Ravinder Nath	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
161	Renu Pal Sood	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
162	Rishabh	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
163	Ritesh Banerjee	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023

164		FDP on "Geographic Information System & Remote Sensing"	06-02-2023 to 22-02-2023
165		9 days FDP on AI for Education	28-12-2022 to 12-01-2023
166	Ritika Chauhan	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
167	Robin Thakur	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
168		9 days FDP on AI for Education	28-12-2022 to 12-01-2023
169	Rohit Chobe	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
170	Rohit Goyal	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
171	Rohit Jasrotia	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
172	Rohit Khosla	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
173	Rozy Dhanta	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
174	Ruhi Thakur	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
175	Rupak Nagraik	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
176		FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
177	Sachin Sharma	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
178		FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
179	Sahil Kashyap	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
180		FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
181	Sahil Mohan	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
182		FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
183	Sakshi Gautam	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023

184	Sanchit Thakur	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
185	Sandeep Singh	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
186	Sandipta Ghosh	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
187	Sangeeta Kakkar	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
188	Santanu Mukherjee	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
189	Sashank Thapa	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
190	Satish Kumar Gupta	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
191	Saurabh Kulshreshtha	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
192	Shard	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
193	Shikha Mahant	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
194	Shikhar Sharma	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
195	Shilpa Patial	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
196	Shrawan Kumar	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
197	Shubham Verma	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
198	Shubhangi Sood	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
199		FDP on "Writing research proposals for extramural grants" organized by Graphic era university Dehradun	01-05-2023 to 05-05-2023
200	Shweta Sharma	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
201	Somesh Sharma	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023

202		FDP on Inculcating Universal human values in Technical Education	21-02-22 to 25-02-22
203		Short Term course on Innovation Ambassador Training 'Advanced Level'	30-06-2021 to 31-07-2021
204		FDP on Artificial Intelligence for Educators	28-12-2022 to 12-01-2023
205	Sonia Bharti	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
206	Sonia	FDP on Cyber Crime and Forensic Tools	08-05-2023 to 12-05-2023
207		FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
208	Sorabh Aggarwal	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
209	Subhash Mishra	9 days FDP on AI for Education	28-12-2022 to 12-01-2023
210	Subodh Saurabh Singh	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
211	Suman Rawat	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
212	Sunakshi Gautam	FDP on Advances in Analytical and computational techniques for higher education and research	05-06-23 to 12-06-23
213		FDP on Research methodology, Bibliometric Analysis and data analysis using R	22-07-23 to 28-07-23
214	Sunil Kumar	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
215		FDP on MATLAB and SIMULINK basics for Hardware Projects	01-08-2022 to 05-08-2022
216	Sunil Kumar Sharma	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
217	Supriya Srivastva	9 days FDP on AI for Education	28-12-2022 to 12-01-2023
218	Sushil Kumar	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
219	Swati Pundir	Workshop on "Curriculum Building and CO-PO Attainment Levels"	17-07-2023 to 22-07-2023
220	Vandana	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023

221	Varsha Patil	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
222	Varsha Sharma	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
223	Vatika Soni	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
224	Veena Kashyap	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
225	Vihang Vivek Ghalsasi	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
226	Vijay Chauhan	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
227	Vijay Kumar	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
228	Vikrant Chauhan	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
229	Vinay Chandel	FDP - Teaching in Higher Education - A New Path	24-07-2023 to 30-07-2023
230	Vinay Kumar Rachappanavar	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
231	Vishal Sharma	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023
232	Y S Negi	Workshop on “Curriculum Building and CO-PO Attainment Levels”	17-07-2023 to 22-07-2023

1.4 Financial Audits

Shoolini University maintains a ethical regime of accountability and transparency in its financial operations, adhering to a comprehensive audit mechanism. This includes various audit mechanism like internal, external, and concurrent or special audits, conducted at regular intervals to ensure the authenticity of financial transactions, compliance with regulatory obligations, and to maintain a standards of financial governance.

Internal Audits: Conducted internal audits as decided by the management, These audits are conducted by both internal or external agencies, focusing on the validity of financial transactions, monitoring of tax and other liabilities, and checking compliance levels across all hierarchies. This methodical scrutiny is pivotal in streamlining all financial processes, ensuring the seamless operation of the institution. Over the past couple of years, internal audits have led to

significant improvements, reducing audit objections and enhancing efficiency in financial management.

External Audits: A statutory audit is performed annually by a professionally accredited external auditor, currently Rajeev Sood & Co. This audit follows the standards laid down by the Institute of Chartered Accountants of India and primarily aims to provide an independent opinion on the truth and fairness of the university's financial statements. The past three years have seen the external audit by S.R Batliboi & Associates LLP and Rajeev Sood & Co. with all audits confirming the university's adherence to financial best practices.

Audit Compliance and Resolution: Following the audit, objections if any, are dealt with systematically, ensuring uniform compliance and rectification. The university is committed to addressing all objections promptly, with compliance made within the stipulated period and presented to the management along with the audit report. This rigorous follow-up has contributed to maintaining the quality and reliability of the institution's financial operations, with a consistent reduction in audit objections over the years.

Quantifiable Data:

Number of External Audits Conducted in the Last Three Years: 3

Reduction in Audit Objections over Five Years: 1/5th

Compliance Rate for Audit Objections: 100%

Through these robust audit practices, Shoolini University not only fulfils statutory requirements but also fosters a culture of financial responsibility and integrity. This disciplined approach towards financial management has enhanced the trust of various stakeholders and strengthened the university's reputation for excellence and transparency.

1.5. **Internal Quality Assurance Cell (IQAC)**

Shoolini University recognizes the crucial role of quality assurance in maintaining academic excellence and fostering continuous improvement. The Internal Quality Assurance Cell (IQAC) has been instrumental in institutionalizing quality assurance strategies and processes.

First Cycle (Pre-Accreditation)

During the first cycle, the primary focus of IQAC was on establishing a robust framework for quality assurance. This included:

1. **Curriculum Enhancement:**

- Introduction of Outcome-Based Education (OBE) to ensure that learning outcomes are clearly defined and aligned with industry standards.
- Regular updates to the curriculum based on stakeholder feedback, including inputs from students, alumni, employers, and academic experts.

2. Faculty Development:

- Implementation of comprehensive faculty development programs, to enhance teaching skills and research capabilities.
- Introduction of the Four-Tier Research Faculty system to promote research and innovation

3. Infrastructure Development:

- Significant investments in upgrading campus infrastructure, - Wi-Fi-enabled classrooms, digital libraries, and state-of-the-art laboratories.
- Introduction of ICT-enabled teaching tools such as the myShoolini app, e-learning resources, and online examination platforms.

Second and Subsequent Cycles (Post-Accreditation)

Building on the foundation laid during the first cycle, IQAC's focus during the second and subsequent cycles was on continuous improvement and the implementation of post-accreditation quality initiatives:

1. Enhanced Research Initiatives:

- Equipping laboratories with modern equipment and providing advanced computing facilities to support high-quality research.
- Encouraging interdisciplinary research and collaboration with national and international institutions.

2. Student-Centric Initiatives:

- Launching the "Mission 130" initiative to improve student placements and employability skills.
- Implementing the "Pay after Placements" scheme to ensure that financial constraints do not hinder a student's education.

3. Stakeholder Engagement:

- Establishing a comprehensive feedback system involving students, alumni, parents, and employers to gather insights and make data-driven improvements.
- Regular academic and administrative audits to ensure adherence to high standards and identify areas for further enhancement.

Institutionalized Practices Resulting from IQAC Initiatives

- **Outcome-Based Education (OBE)**

One of the most significant practices institutionalized by IQAC is the implementation of Outcome-Based Education (OBE). OBE focuses on clearly defined learning outcomes that align with industry requirements and global standards. Faculty members are given complete academic autonomy to design and deliver courses that meet these predefined outcomes. The use of digital tools such as the eUniv platform and the myShoolini app enhances the delivery and assessment processes, ensuring that students achieve the desired competencies.

- **Introduction of ICT-Enabled Teaching Tools**

Shoolini University has integrated various ICT-enabled teaching tools to

enhance the learning experience. These include the myShoolini app, which provides students with access to course materials, schedules, and academic resources; e-learning platforms that facilitate interactive online classes and resources; and online examination platforms that streamline the assessment process, ensuring flexibility and accessibility for all students.

IQAC's efforts have not only aligned the university with global education standards but also addressed the evolving needs of students, thereby playing an essential role in shaping the academic landscape of the institution.

1.6 Quality enhancement initiatives in the academic and administrative domains

Shoolini University has actively committed to continuous quality enhancement and academic excellence. Following the achievement of B++ in the last NAAC accreditation cycle, the University embarked on a comprehensive review of its processes, structures, and methodologies, aligning them with the seven criteria of the SSR. This strategic approach included the implementation of Outcome-Based Education (OBE) and targeted initiatives in key areas to drive improvements. The subsequent sections detail these initiatives.

1. Curricular Aspects

Curriculum Design and Development:

- Collaboration with industry experts and academia to redesign the curriculum aligned with OBE.
- Introduction of interdisciplinary courses and flexibility in choosing elective subjects.

Adoption and Implementation of NEP (National Education Policy):

- Proactive steps towards the implementation of the new education policy, reflecting the national vision in education.

2. Enhancement of Teaching & Learning

Implementation of Outcome-Based Education (OBE) in Academics:

- Aligning the curriculum with specific learning outcomes that students are expected to demonstrate by the end of the course.
- Periodic assessment of student performance to ensure that learning outcomes are being met.
- Training faculty to design curricula and assessments that focus on outcomes, rather than just content delivery.
- Collaboration with industry experts to ensure that outcomes are relevant to current professional demands.
- Utilizing platforms like eUniv, myShoolini app, Digital Library, MOOC portals, etc., to support the OBE approach.
- Ensuring continuous comprehensive evaluation and academic autonomy to faculty, in alignment with the OBE framework.

Technology Integration:

- Adoption of various digital platforms and tools to augment teaching and learning experiences.

3. Research, Consultancy, and Extension**Strengthening Research Infrastructure:**

- Investment in advanced laboratory and computing facilities.
- Encouragement and support for publications, patents, and research projects.

4. Infrastructure and Learning Resources**Improvement in Physical and Virtual Infrastructure:**

- Enhancement of classrooms, library, and other learning spaces with modern technology.
- Development and deployment of the myShoolini app to manage university activities.

5. Student Support and Progression**Holistic Student Development:**

- Initiatives like Mission 130 for placement, skill development courses, and mentor-mentee schemes.
- Enhancing student life through clubs, Radio Shoolini, Shoolini TV, and more.

6. Governance, Leadership, and Management**Strategic Planning and Management:**

- Adoption of decentralized, flexible, and adaptive management to ensure optimal resource utilization.
- Rigorous internal and external financial audits.

7. Institutional Values and Best Practices**Emphasizing Core Values and Social Responsibility:**

- Introduction of awards like “Golden Rudraksha” to recognize commitment and sincerity.
- Engagement in social projects and happiness initiatives.

Shoolini University's pursuit of excellence after the last NAAC accreditation cycle has been a focused and multidimensional effort. The concerted actions across the seven criteria of SSR, including the transformative adoption of Outcome-Based Education (OBE), are aimed at providing a superior educational experience and positioning the University as a leader in quality assurance and innovation. The next cycle of NAAC application is backed by these robust initiatives and an unwavering commitment to academic integrity and growth.

CHAPTER - II
TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

During the Academic Year 2022-23 the following students were admitted against the sanctioned seats as approved by Academic Council after the approval of HPPEREC

Sr. No.	Programme	Programme Code	Number of Sanctioned Strength	Total of admitted Strength
1	B.Com (Hons.)	SUBCOM01	30	29
2	B.Design	SUBDES01	5	1
3	B.Pharmacy	BP	100	99
4	B.Sc. (Hons.) Agriculture	SUBSAGR01	50	46
5	B.Sc. (Hons.) Biotechnology Research	SUBSBTRES01	70	66
6	B.Sc. (Hons.) Botany Research	SUBOTRES01	5	1
7	B.Sc. (Hons.) Chemistry Research	SUBSCHEMRES01	5	1
8	B.Sc. (Hons.) Food Technology Research	SUBSFTRES01	5	5
9	B.Sc. (Hons.) Microbiology Research	SUBSMICRES01	10	6
10	B.Sc. (Hons.) Physics Research	SUBSPHYRES01	5	5
11	B.Sc. (Hons.) Zoology Research	SUBSZLGRES01	5	5
12	B.Sc. Hospitality and Hotel Administration	SUBHHA01	15	14
13	B.Sc. Nutrition and Dietetics	SUBSNUT01	10	10
14	B.Sc./ BA (Hons.) Mathematics	SUBAMATH01/SUBS MATH01	5	4
15	B.Sc./BA Yoga	SUBAYOGA01/SUBS YOGA01	5	2
16	B.Tech Artificial Intelligence	SUBTAI01	30	29

17	B.Tech Bioinformatics	SUBTBIOINFO01	10	6
18	B.Tech Biotechnology Research	SUBBTBTRES01	75	74
19	B.Tech Civil Engineering	SUBTCE01	10	18
20	B.Tech CSE	SUBTCSE01	85	85
21	B.Tech CSE Artificial Intelligence Research	SUBCSEAIRES01	30	29
22	B.Tech Mechanical (Lateral)	SUBTME01	-	1
23	B.Tech Electrical (Lateral)	SUBTEE01	-	1
24	B.Tech ECE	SUBTECE01	5	5
25	B.Tech Food Technology Research	SUBTFTRES01	10	10
26	BA (Hons.) Liberal Arts Economics and Finance	SUBALAECOFIN01	5	4
27	BA (Hons.) Liberal Arts English	SUBALAENG01	5	5
28	BA (Hons.) Liberal Arts Political Science	SUBALAPOL01	5	5
29	BA (Hons.) Psychology and Counseling	SUBAPSYCOU01	12	11
30	BA / B.Sc. Behavioural and Neuro Psychology	SUBABHNEU01/ SUBSBHNEU01	15	15
31	BA Journalism and Mass Communication	SUBAJMC01	20	18
32	BA LLB	SUBALLB01	55	51
33	BA Pass	SUBAPASS01	5	4
34	BBA	SUBBA01	50	47
35	BBA Aviation and Management	SUBBAAM01	15	14
36	BBA Banking and Insurance	SUBBABI01	10	10
37	BBA Computer Science and Entrepreneurship	SUBBACSE01	25	22

38	BBA Data Science	SUBBADS01	5	3
39	BBA Digital Marketing	SUBBADM01	20	20
40	BCA	SUBCA01	55	54
41	LLB	SULLB01	10	8
42	LLM	SULLM01	20	18
43	M.Pharmacy Pharmaceutical Chemistry	MPC	10	7
44	M.Pharmacy Pharmaceutics	MPH	12	11
45	M.Pharmacy Pharmacognosy	MPG	3	3
46	M.Pharmacy Pharmacology	MPL	12	12
47	M.Sc. / MA Mathematics	SUMSMATH01	15	13
48	M.Sc. Agriculture (Agricultural Extension Communication)	SUMSAGREXT01	5	4
49	M.Sc. Agriculture (Agronomy)	SUMSAGR01	20	16
50	M.Sc. Agriculture (Genetics and Plant Breeding)	SUMSAGRGPB01	5	2
51	M.Sc. Agriculture (Plant Pathology)	SUMSAGRPP01	10	6
52	M.Sc. Agriculture (Soil Science and Agriculture Chemistry)	SUMSAGRSSAC01	5	3
53	M.Sc. Biotechnology Research	SUMSBTRES01	50	50
54	M.Sc. Botany (Research)	SUMSBOTRES01	5	5
55	M.Sc. Chemistry (Research)	SUMSCHEMRES01	12	12
56	M.Sc. Data Science	SUMSDATS01	5	3
57	M.Sc. Food Technology (Research)	SUMSFTRES01	15	14
58	M.Sc. Microbiology (Research)	SUMSMICRES01	25	23

59	M.Sc. Nutrition and Dietetics	SUMSNUT01	15	11
60	M.Sc. Physics (Research)	SUMSPHYRES01	10	7
61	M.Sc. Yoga	SUMSYOGA01	10	10
62	M.Sc. Zoology (Research)	SUMSZLGRES01	5	5
63	M.Tech Biotechnology	SUMTBT01	10	9
64	M.Tech Civil Engineering	SUMTCE01	5	4
65	M.Tech CSE	SUMTCSE01	5	1
66	M.Tech ECE	SUBMTECE01	5	3
67	M.Tech Food Technology	SUMTFT01	15	14
68	MA English Literature	SUMAENGL01	5	4
69	MA Journalism	SUMAJ01	10	8
70	MA/ MSc Psychology	SUMAPSY01/SUMS PSY01	5	4
71	MBA	SUMBA01	120	115
72	MCA	SUMCA01	20	20
73	PG Diploma Artificial Intelligence and Data Science	SUPGAIDS01	5	1
74	PG Diploma Cloud Computing	SUPGDCC01	5	1
75	PG Diploma in Direct Selling	SUPGDDS01	10	8
76	PG Diploma in Fintech	SUPGDFINTECH01	5	1
77	PG Diploma in Journalism	SUPGDJ01	5	1
78	Ph.D AI, Cloud Computing Tech, Cyber Security and Data Analytics	SPPHDACCD01	4	3
79	Ph.D Biotechnology	SUPHDBT01	5	5
80	Ph.D Botany	SUPHDBOT01	10	10
81	Ph.D Cancer Biology	SUPHDCB01	2	1
82	Ph.D Chemistry	SUPHDCHEM01	5	5
83	Ph.D Civil	SUPHDCE01	4	3
84	Ph.D CSE	SUPHDCSE01	5	3
85	Ph.D Disaster Management	SUPHDDM01	3	3

86	Ph.D ECE	SUPHDECE01	4	1
87	Ph.D Economics	SUPHDECO01	5	3
88	Ph.D Energy	SUPHDENGY01	4	3
89	Ph.D English	SUPHDENG01	5	4
90	Ph.D Environmental Sciences	SUPHDENV01	3	2
91	Ph.D Food Technology	SUPHDFT01	10	8
92	Ph.D Human Resource	SUPHDHRES01	2	2
93	Ph.D Intellectual Property Rights	SUPHDIPR01	4	1
94	Ph.D Journalism	SUPHDJ01	4	1
95	Ph.D Legal Sciences	SUPHDLS01	5	3
96	Ph.D Management Sciences	SUPHDMNG01	10	9
97	Ph.D Material Sciences	SUPHDMET01	2	1
98	Ph.D Mathematics	SUPHDMATH01	5	2
99	Ph.D Microbiology	SUPHDMIC01	5	1
100	Ph.D Pharmaceutical Sciences	PHAR.PH.D	5	5
101	Ph.D Physics	SUPHDPHY01	5	5
102	Ph.D Political Sciences	SUPHDPOL01	2	2
103	Ph.D Psychology	SUPHDPSY01	4	4
104	Ph.D Yoga	SUPHDYOGA01	4	3
105	Ph.D Zoology	SUPHDZLG01	5	4
Total			1522	1369

2.1.2 Seats filled against reserved categories (SC, ST, OBC, etc.): 337

Number of students admitted from the reserved category				
SC	ST	OBC	Gen	Others
121	47	169	1032	-

2.2 Catering to Student Diversity

Shoolini University implements a rigorous and student-centered approach to address the diverse learning needs of its students, ensuring that everyone, regardless of their initial capability or learning speed, receives the necessary

support to excel academically and personally. This inclusive educational model is structured into four distinct phases: Initial Assessment, Continuous Monitoring, Detailed Evaluation, and Implementation of Tailored Support.

Phase 1: Initial Assessment

This phase begins with new students undergoing Entrance Exams & Language Proficiency Tests, which are designed to evaluate their foundational knowledge and language skills. During orientation, staff observe new students to gauge their initial interaction, participation, and comfort with the curriculum. Previous academic records and feedback from past educators also play a crucial role in initial assessments, allowing the university to tailor educational experiences from the outset.

Phase 2: Continuous Monitoring

Continuous monitoring through regular testing and quizzes helps in assessing the understanding and retention of course material. Classroom participation and behavior are observed, alongside reviews of homework and assignments. Mentor and peer feedback is also integral during this phase, providing students with both formal and informal assessments of their progress.

Phase 3: Detailed Evaluation

Term exam performance analysis helps categorize students into groups such as advanced learners and slow learners. Advanced learners are identified by their consistent above-average performance, creativity, and leadership skills. Conversely, slow learners, who struggle with core concepts or lag in tests, are given extra attention. This phase includes conducting individual interviews and counselling sessions to provide personalized feedback and support.

Phase 4: Implementation of Tailored Support

Based on the assessments, personalized learning plans are developed to cater to the distinct needs of both advanced and slow learners. These plans are regularly adjusted based on ongoing monitoring of each student's academic performance. The university also ensures that stakeholders, like parents and guardians, are kept updated about the progress of the students.

Special Programs

To further support differential learning needs, Shoolini University offers several specialized programs:

Internship Opportunities: These are provided on campus to help students gain practical

experience, develop professional skills, and achieve financial independence.

Summit Research Programme (SRP): A program that offers students with an inclination and aptitude towards research, firsthand exposure to high-quality research and mentorship in patent filing from the undergraduate level.

Peer Tutoring Programs: These peer-led initiatives help students understand complex topics through collaborative learning.

Workshops and Seminars: These are organized regularly to cater to various academic and soft skills, enhancing overall student competency.

For bright students, initiatives include opportunities for certification through platforms like Coursera, engagement in sponsored research projects, and advanced study groups for deeper exploration of subjects.

For slow learners, the university provides remedial classes, mentorship programs, access to recorded lectures via e-University for self-paced learning, and heterogeneous group assignments to foster peer support and learning. Through these comprehensive and adaptive educational strategies, Shoolini not only addresses the differential learning needs of its students but also promotes an environment of inclusive and personalized education that aligns with both the National Education Policy 2020 and the Sustainable Development Goals.

2.3 Teaching- Learning Process

Shoolini University adopts a student-centric approach to education. Here's an outline of how these methods are deployed to foster a dynamic and inclusive learning environment. **Learning Environment** The university leverages state-of-the-art ICT tools to create an engaging and accessible teaching environment. Classrooms are equipped with Wi-Fi, LCDs, and projectors, supported by a robust digital infrastructure including Cloud services via Amazon

Web Services and a comprehensive Moodle-based e-learning platform, eUniv. This setup facilitates a range of interactive and adaptive learning experiences through webinars, online examinations, and extensive digital libraries. Platforms such as SWAYAM, Coursera, and edX are also integrated into the curriculum, enabling both synchronous and asynchronous learning. Access SIQANDAR- an AI-based tool for communication and interview prep is also given to the students. The My Shoolini app provides access to Library resources, and LMS timetable to each student.

Experiential Learning Shoolini University emphasizes real-world applications of classroom knowledge. This is implemented through internships, project work, and field immersion programs across various faculties. Notably, the School of Hospitality operates a fully functional 4-star hotel, providing hands-on hospitality management experience, while the School of Journalism manages Radio Shoolini and Shoolini TV, offering practical media production experience. Similarly, the Schools of Law and Agriculture engage students in moot courts and on-site agricultural projects, respectively, for practical insights into their fields of study. Summer and winter internships are incorporated into several programs and are mandatory for some programs including MBA.

Participative Learning The curriculum is designed to encourage active participation and collaboration among students. Interactive sessions, group activities, and case studies are regular features of classroom teaching. Programs like SPRINT and ATP (Advanced Training Program) offer opportunities for interactive workshops as well as role plays. Students also

work on specific projects over an extended period, which involves researching, designing, and implementing the project. Faculty at Shoolini employ innovative teaching methods such as flipped classrooms and role-playing, particularly in the fields of Management, Law, Liberal Arts, and Media Studies. These approaches encourage active learning and critical thinking among students. The university also enriches its educational offerings with guest lectures and workshops conducted by industry and academic experts.

Problem-Solving Methodologies Shoolini University incorporates various problem-solving methods into its teaching practices. Moot court sessions, laboratory exercises, and collaborative projects are utilized to develop students' analytical and problem-solving skills. A foundation course in thinking has also been introduced.

International and Social Exposure: The university fosters global competence and social responsibility among students by providing international teaching experiences and exchange programs, as well as engaging them in community service activities like plantation drives and blood donation campaigns. Social Projects for credit are often a part of the curriculum. University's pedagogical strategy is centered around creating a responsive, engaging, and technology-enabled educational environment that not only focuses on academic excellence but also prepares students for professional success and civic engagement.

2.3.1 Online resources

Shoolini University has established a comprehensive Mentor-Mentee program designed to support students through their academic and personal challenges. This initiative is a cornerstone of the university's commitment to fostering a nurturing educational environment and addressing the holistic needs of its students.

Program Objectives and Structure: The Mentor-Mentee program at Shoolini University aims to bridge the communication gap between students and faculty, ensuring open and honest interactions that contribute positively to the students' academic and personal growth. Mentors, who are faculty members, are tasked with guiding mentees in various areas:

Academic Performance: Mentors assess and support students' academic efforts and provide necessary guidance to enhance their learning outcomes.

Personal Development: The program focuses on holistic development by encouraging physical well-being, discipline, and co-curricular participation, enriching students' university experience. **Career Guidance:** Mentors help students align their academic pursuits with career goals, providing insights into professional opportunities and personal strengths.

Create a Learning Environment: Fostering a supportive, collaborative and congenial learning environment, promoting intellectual growth and well-being.

Functions and Responsibilities:

Mentors are responsible for monitoring their mentees' attendance, providing academic counseling, and conducting regular meetings to discuss progress and concerns. They also facilitate remedial teaching if required and keep detailed records of the students' achievements and academic status. If issues exceed the mentor's expertise, referrals are made to the university's counselling centre.

Mentees are expected to actively participate in meetings, communicate openly about their challenges, and engage in the development activities suggested by their mentors.

Areas of Focus:

Health and Well-being: Mentors encourage practices that enhance physical and mental health.

Academic and Discipline Matters: Regular reviews of academic performance and adherence to university norms are conducted to ensure that students meet their educational objectives.

Project and Research Supervision: Mentors oversee research activities, providing expert advice and ensuring students gain valuable experience and knowledge.

The Mentor-Mentee program at Shoolini University serves as an integral part of the student support system, addressing both academic and psychological aspects. It's an innovative practice that aims to build a nurturing, constructive relationship between students and mentors. The program's carefully structured approach allows students to thrive academically and personally, instilling in them the confidence, discipline, and skills necessary for success in their future endeavours. It's a testament to the University's dedication to student welfare and its pursuit of educational excellence.

2.4 Teacher Profile and Quality**Full time teacher during the year under report**

Sr. No	Name of the teacher	Designation	Date of appointment	Name of the Department
1	Aarchit Joshi	Assistant Professor	31-08-2021	Yogananda School of AI, Computer and Data Sciences
2	Abhinandan Kumar	Assistant Professor	04-12-2019	School of Advanced Chemical Sciences
3	Abhishek Kandwal	Assistant Professor	03-10-2022	School of Physics & Materials Science
4	Abhishek Kumar Sharma	Assistant Professor	18-01-2018	School of Pharmaceutical Sciences
5	Abhishek Tomar	Assistant Professor	25-10-2021	Yogananda School of AI, Computer and Data Sciences

6	Aditi Sharma	Assistant Professor	28-03-2016	School of Pharmaceutical Sciences
7	Akshita Thakur	Assistant Professor	05-01-2023	Shoolini University Centre for Distance and Online Education (SCDOE)
8	Amar Raj Singh	Professor	24-08-2011	School of Core Engineering
9	Amar Rao	Associate Professor	15-07-2013	School of Business Management
10	Amit Khanna	Associate Professor	01-09-2021	School of Business Management
11	Amit Kumar	Professor	21-07-2011	School of Advanced Chemical Sciences
12	Amit Kumar	Distinguished Professor	15-02-2022	School of Design
13	Anirban Saha	Assistant Professor	02-07-2018	School of Physics & Materials Science
14	Anita Chauhan	Associate Professor	02-07-2019	School of Biological & Environmental Sciences
15	Anitya Kumar Gupta	Assistant Professor	03-01-2023	School of Business Management
16	Anjali Kaushal	Assistant Professor	10-12-2021	School of Pharmaceutical Sciences
17	Ankit Shukla	Assistant Professor	01-02-2018	School of Business Management
18	Ankur Saxena	Lecturer/ Assistant Professor	01-06-2020	Chitrakoot School of Liberal Arts
19	Anshul Jamwal	Associate Professor	25-02-2023	School of Pharmaceutical Sciences
20	Anuj Thakur	Assistant Professor	24-05-2018	School of Business Management
21	Anupama Chandel	Assistant Professor	19-02-2018	School of Ancient Indian Wisdom & Yogic Studies
22	Anupriya Thakur	Assistant Professor	06-01-2017	School of Law
23	Anurag Rana	Assistant Professor	20-09-2021	MS Swaminathan School of Agriculture
24	Apar Kaushik	Assistant Professor	17-03-2021	School of Ancient Indian Wisdom & Yogic Studies
25	Arun Parashar	Assistant Professor	26-04-2019	School of Pharmaceutical Sciences
26	Arunava Poddar	Assistant Professor	04-01-2021	School of Core Engineering
27	Arvind Sharma	Assistant Professor	03-01-2023	Yogananda School of AI, Computer and Data Sciences

28	Ashish Khosla	Professor	01-08-2019	Yogananda School of AI, Computer and Data Sciences
29	Ashoo Khosla	Associate Professor	18-06-2015	Yogananda School of AI, Computer and Data Sciences
30	Ashwani Sharma	Assistant Professor	21-09-2011	School of Core Engineering
31	Atul Khosla	Professor	01-06-2011	School of Business Management
32	Avinash Sharma	Assistant Professor	16-06-2021	School of Bioengineering and Food Technology
33	Avnee Gupta	Associate Professor	06-07-2018	School of Business Management
34	Azhar Khan	Professor	11-09-2012	School of Biotechnology
35	B.K. Kaul	Professor of Practice	20-03-2023	School of Business Management
36	Bhagyashree Bhatt	Assistant Professor	14-06-2022	MS Swaminathan School of Agriculture
37	Bharti Thakur	Assistant Professor	08-09-2010	Yogananda School of AI, Computer and Data Sciences
38	Bhaskar Goel	Professor	03-05-2017	School of Core Engineering
39	Bhawna Thakur	Assistant Professor	01-07-2021	School of Business Management
40	Bhupender Kumar	Assistant Professor	23-06-2016	School of Core Engineering
41	Brijbhushan	Assistant Professor	20-02-2013	Yogananda School of AI, Computer and Data Sciences
42	Chaitanya Moudgil	Assistant Professor	07-08-2020	School of Business Management
43	Chander Mohan Gupta	Associate Professor	15-07-2013	School of Business Management
44	Chanderika Thakur	Assistant Professor	01-03-2023	School of Business Management
45	Chandresh Kumari	Assistant Professor	01-08-2016	School of Biotechnology
46	Chavan Praful Devrao	Assistant Professor	07-08-2018	School of Bioengineering and Food Technology
47	Chetna Kumari	Assistant Professor	04-07-2018	School of Pharmaceutical Sciences
48	Durga Dutt Sharma	Professor	14-07-2022	MS Swaminathan School of Agriculture
49	Debajyoti Bose	Assistant Professor	17-08-2020	School of Biotechnology
50	Deblina Biswas	Assistant Professor	22-12-2021	School of Bioengineering and Food Technology
51	Deepak Kapoor	Professor	19-01-2015	School of Pharmaceutical Sciences

52	Deepak Kumar	Professor	03-05-2017	School of Pharmaceutical Sciences
53	Deepak Kumar	Assistant Professor	25-11-2021	School of Pharmaceutical Sciences
54	Deepika Sood	Assistant Professor	01-08-2022	MS Swaminathan School of Agriculture
55	Devanshi Pandit	Assistant Professor	24-08-2020	MS Swaminathan School of Agriculture
56	Dhriti Verma	Assistant Professor	01-04-2019	School of Pharmaceutical Sciences
57	Diksha Chauhan	Assistant Professor	10-09-2021	School of Core Engineering
58	Dinesh Kumar	Professor	15-07-2011	School of Bioengineering and Food Technology
59	Dinesh Singh	Professor	01-05-2021	Yogananda School of AI, Computer and Data Sciences
60	Divakar	Assistant Professor	15-02-2023	School of Ancient Indian Wisdom & Yogic Studies
61	Divya Mitlani	Assistant Professor	15-03-2021	School of Ancient Indian Wisdom & Yogic Studies
62	Ekta Bala	Assistant Professor	06-01-2020	School of Advanced Chemical Sciences
63	Ekta Singh	Assistant Professor	08-02-2022	Chitrakoot School of Liberal Arts
64	Gagan Mehta	Assistant Professor	01-03-2023	MS Swaminathan School of Agriculture
65	Garima Rana	Assistant Professor	05-09-2022	School of Physics & Materials Science
66	Gaurav Gupta	Associate Professor	31-01-2011	Yogananda School of AI, Computer and Data Sciences
67	Gaurav Saxena	Assistant Professor	02-11-2020	School of Biotechnology
68	Gaurav Sharma	Professor	25-08-2014	School of Advanced Chemical Sciences
69	Geetansh	Assistant Professor	24-01-2023	School of Bioengineering and Food Technology
70	GK Sharma	Professor	11-11-2013	MS Swaminathan School of Agriculture
71	Harsh Kumar	Assistant Professor	29-07-2020	School of Biotechnology
72	Harsha Thakur	Assistant Professor	12-06-2010	School of Business Management
73	Hemant Kumar Sharma	Assistant Professor	03-09-2021	Chitrakoot School of Liberal Arts
74	Hemant Sharma	Assistant Professor	01-09-2015	Yogananda School of AI, Computer and Data Sciences

75	Hemlata Kaurav	Assistant Professor	29-11-2021	School of Pharmaceutical Sciences
76	Het Ram Kashyap	Assistant Professor	18-05-2015	School of Business Management
77	Himanshu Gandhi	Assistant Professor	22-12-2021	School of Pharmaceutical Sciences
78	Himanshu Sharma	Assistant Professor	31-08-2020	School of Law
79	Indu Negi	Assistant Professor	01-12-2020	School of Journalism & New Media
80	Indu Rihani	Professor	06-12-2021	Chitrakoot School of Liberal Arts
81	Isha Jaswal	Assistant Professor	02-08-2021	School of Biological & Environmental Sciences
82	Ishani Vaidya	Assistant Professor	18-05-2022	School of Law
83	Itika Kainthla	Assistant Professor	22-12-2021	School of Physics & Materials Science
84	Jagdeep Sambey	Assistant Professor	01-02-2020	School of Business Management
85	Jyoti Mehta	Assistant Professor	23-09-2020	School of Biotechnology
86	Kamal Dev	Professor	01-11-2009	School of Biotechnology
87	Kamalkant Vashisth	Associate Professor	16-07-2012	School of Business Management
88	Kanchan Bhardwaj	Assistant Professor	14-12-2020	School of Biological & Environmental Sciences
89	Kapil Gupta	Assistant Professor	16-10-2019	School of Business Management
90	Karnika Thakur	Assistant Professor	13-02-2023	School of Biotechnology
91	Kartikeya Choudhary	Assistant Professor	02-08-2021	MS Swaminathan School of Agriculture
92	Kesari Singh	Professor	03-08-2010	School of Business Management
93	Kiran Lata	Assistant Professor	18-09-2021	School of Bioengineering and Food Technology
94	Kishan Chandra Sharma	Professor	12-05-2022	MS Swaminathan School of Agriculture
95	Kritika Rana	Assistant Professor	27-10-2021	Yogananda School of AI, Computer and Data Sciences
96	Kunwar Siddarth Dadhwal	Assistant Professor	07-10-2021	Chitrakoot School of Liberal Arts
97	Lalit Sharma	Associate Professor	01-08-2017	School of Pharmaceutical Sciences

98	Lokender Kumar	Assistant Professor	23-12-2021	School of Biotechnology
99	Mahesh Kumar	Assistant Professor	01-02-2016	Yogananda School of AI, Computer and Data Sciences
100	Mala Tripathi	Associate Professor	01-05-2018	School of Ancient Indian Wisdom & Yogic Studies
101	Mamta Shandilya	Assistant Professor	02-02-2018	School of Physics & Materials Science
102	Mohindra Singh Thakur	Professor	17-09-2015	School of Core Engineering
103	Monika Prakash	Assistant Professor	18-04-2019	School of Pharmaceutical Sciences
104	Monika Thakur	Assistant Professor	02-07-2018	School of Law
105	Munish Sahrawat	Professor	17-04-2023	School of Business Management
106	Muntazir Mushtaq	Assistant Professor	06-12-2022	MS Swaminathan School of Agriculture
107	Namita Gandotra	Assistant Professor	16-05-2013	Yogananda School of AI, Computer and Data Sciences
108	Nandan Sharma	Professor	16-05-2017	School of Law
109	Narinder Verma	Professor	15-07-2013	School of Business Management
110	Nasser Dasht Peyma	Assistant Professor	16-08-2022	Chitrakoot School of Liberal Arts
111	Navneet Upadhyay	Associate Professor	14-03-2011	School of Pharmaceutical Sciences
112	Navreet Kaur Sahi	Associate Professor	16-06-2021	Chitrakoot School of Liberal Arts
113	Navsal Kumar	Assistant Professor	22-03-2021	School of Core Engineering
114	Neeraj Gandotra	Associate Professor	01-07-2010	Yogananda School of AI, Computer and Data Sciences
115	Neeraj Kumar	Associate Director	07-02-2022	School of Journalism & New Media
116	Neeraj Singh Parihar	Assistant Professor	02-03-2022	MS Swaminathan School of Agriculture
117	Neha	Assistant Professor	03-01-2023	School of Advanced Chemical Sciences
118	Nidhi	Assistant Professor	01-08-2022	MS Swaminathan School of Agriculture
119	Nisha Kapoor	Associate Professor	13-08-2019	School of Journalism & New Media
120	Nishtha Shukla	Associate Professor	01-01-2019	School of Journalism & New Media

121	Nishtha Singh	Assistant Professor	19-07-2021	School of Pharmaceutical Sciences
122	Nitika Devi	Assistant Professor	19-02-2021	School of Physics & Materials Science
123	Nitika Thakur	Assistant Professor	17-11-2016	School of Biotechnology
124	Nitin Gupta	Associate Professor	12-08-2010	School of Business Management
125	Nitin Kumar Sharma	Assistant Professor	20-09-2013	School of Core Engineering
126	Nitisha Sharma	Assistant Professor	02-07-2019	School of Core Engineering
127	Paarth Sharma	Assistant Professor	08-03-2022	School of Journalism & New Media
128	Palak Chauhan	Assistant Professor	01-03-2023	School of Business Management
129	Palak Sharma	Assistant Professor	31-08-2020	School of Law
130	Pankaj Kapoor	Assistant Professor	03-10-2022	School of Core Engineering
131	Pankaj Kumar Chauhan	Professor	31-03-2012	School of Bioengineering and Food Technology
132	Pankaj Raizada	Professor	20-12-2017	School of Advanced Chemical Sciences
133	Pankaj Vaidya	Professor	13-08-2010	Yogananda School of AI, Computer and Data Sciences
134	Pardeep Singh	Professor	20-12-2017	School of Advanced Chemical Sciences
135	Pawan Sharma	Assistant Professor	02-07-2012	School of Business Management
136	Pawan Kumar	Assistant Professor	06-08-2018	School of Physics & Materials Science
137	Perminder Singh Brar	Assistant Professor	14-11-2022	MS Swaminathan School of Agriculture
138	Pinky Satija	Assistant Professor	02-03-2021	School of Advanced Chemical Sciences
139	Pooja Devi	Assistant Professor	04-08-2020	School of Business Management
140	Pooja Dhiman	Assistant Professor	22-09-2020	School of Physics & Materials Science
141	Pooja Shandilya	Assistant Professor	17-06-2019	School of Advanced Chemical Sciences
142	Pooja Verma	Associate Professor	21-01-2013	School of Business Management
143	Poonam	Assistant Professor	03-04-2023	School of Bioengineering and Food Technology

144	Poonam Nanda	Associate Professor	01-04-2013	Chitrakoot School of Liberal Arts
145	Poonam Negi	Associate Professor	14-10-2014	School of Pharmaceutical Sciences
146	Poonam Pant	Assistant Professor	16-03-2022	School of Law
147	Prachi Agrawal	Assistant Professor	14-06-2021	School of Core Engineering
148	Pradeep Kumar	Assistant Professor	02-04-2018	School of Biotechnology
149	Pradeep Kumar Sharma	Adjunct Professor & Director	30-07-2021	School of Business Management
150	Prakash Chand	Assistant Professor	01-09-2021	Chitrakoot School of Liberal Arts
151	Prakrati Garg	Assistant Professor	06-01-2020	School of Biotechnology
152	Prashanta Kumar Deb	Assistant Professor	02-05-2022	School of Pharmaceutical Sciences
153	Pratip Mazumdar	Professor	03-07-2017	School of Business Management
154	Praveen Kumar	Associate Professor	07-06-2021	School of Advanced Chemical Sciences
155	Preeti Sharma	Assistant Professor	18-02-2013	Yogananda School of AI, Computer and Data Sciences
156	Prem Prakash Sharma	Assistant Professor	09-05-2022	School of Advanced Chemical Sciences
157	Priyanka	Assistant Professor	05-09-2022	Yogananda School of AI, Computer and Data Sciences
158	Priyanka Chauhan	Assistant Professor	22-09-2022	School of Biological & Environmental Sciences
159	Priyanka Kumari	Assistant Professor	13-09-2021	School of Biological & Environmental Sciences
160	Puneet Kapoor	Senior Assistant Professor	16-08-2021	Yogananda School of AI, Computer and Data Sciences
161	Purnima Bali	Associate Professor	10-04-2017	Chitrakoot School of Liberal Arts
162	Rachna Verma	Associate Professor	15-07-2011	School of Biological & Environmental Sciences
163	Radha	Assistant Professor	17-05-2018	School of Biological & Environmental Sciences
164	Radheshyam Rai	Professor	14-09-2021	School of Physics & Materials Science
165	Rahul Chandel	Assistant Professor	13-07-2021	School of Core Engineering

166	Rahul Kumar	Assistant Professor	10-02-2022	MS Swaminathan School of Agriculture
167	Raj Kumar	Associate Professor	23-09-2013	School of Core Engineering
168	Raj Kumar Saini	Associate Professor	01-07-2010	School of Core Engineering
169	Rajendra Kumar	Assistant Professor	09-08-2021	MS Swaminathan School of Agriculture
170	Rajesh Williams	Assistant Professor	16-06-2021	Chitrakoot School of Liberal Arts
171	Rakesh Kumar Shukla	Associate Professor	01-08-2013	School of Physics & Materials Science
172	Ram Prakash Dwivedi	Professor	01-03-2013	School of Core Engineering
173	Ranjeet Singh	Assistant Professor	01-03-2023	MS Swaminathan School of Agriculture
174	Ranjna Thakur	Associate Professor	01-08-2017	School of Journalism & New Media
175	Ratika Kayastha	Assistant Professor	29-07-2021	MS Swaminathan School of Agriculture
176	Raveen Chauhan	Assistant Professor	24-04-2018	School of Pharmaceutical Sciences
177	Ravikant	Associate Professor	28-02-2022	Yogananda School of AI, Computer and Data Sciences
178	Ravinder Kumar Thakur	Assistant Professor	29-08-2016	Yogananda School of AI, Computer and Data Sciences
179	Ravinder Nath	Associate Professor	24-08-2020	MS Swaminathan School of Agriculture
180	Renu Pal Sood	Associate Professor	08-03-2021	School of Law
181	Richika	Assistant Professor	18-08-2021	School of Law
182	Rishabh Shyam	Assistant Professor	02-08-2021	School of Business Management
183	Ritesh Banerjee	Assistant Professor	20-07-2021	School of Biological & Environmental Sciences
184	Riya Bhattacharya	Assistant Professor	16-07-2021	School of Biotechnology
185	Robin Thakur	Associate Professor	01-11-2011	School of Core Engineering
186	Rohit Chobe	Assistant Professor	01-09-2021	School of Ancient Indian Wisdom & Yogic Studies
187	Rohit Goyal	Professor	16-01-2012	School of Pharmaceutical Sciences
188	Rohit Jaotia	Assistant Professor	20-04-2018	School of Physics & Materials Science

189	Rohit Khosla	Associate Professor	11-12-2020	School of Business Management
190	Rohit Sharma	Assistant Professor	01-04-2021	School of Biotechnology
191	Rozy Dhanta	Assistant Professor	09-08-2010	School of Business Management
192	Ruhi Thakur	Assistant Professor	07-08-2020	School of Biological & Environmental Sciences
193	Rupak Nagraik	Associate Professor	21-02-2012	School of Bioengineering and Food Technology
194	S S Chandel	Professor	26-02-2019	School of Core Engineering
195	Sachin Kumar	Assistant Professor	23-08-2021	Yogananda School of AI, Computer and Data Sciences
196	Sachin Sharma	Assistant Professor	25-07-2011	Yogananda School of AI, Computer and Data Sciences
197	Sahil Kashyap	Assistant Professor	20-10-2020	Yogananda School of AI, Computer and Data Sciences
198	Sahil Mohan	Assistant Professor	23-09-2022	School of Business Management
199	Sakshi Gautam	Assistant Professor	05-01-2023	Shoolini University Centre for Distance and Online Education (SCDOE)
200	Samrat Sharma	Assistant Professor	16-09-2021	Chitrakoot School of Liberal Arts
201	Samridhi	Assistant Professor	04-08-2022	School of Pharmaceutical Sciences
202	Sanchit Thakur	Assistant Professor	26-01-2021	MS Swaminathan School of Agriculture
203	Sandeep Singh	Associate Professor	09-11-2020	School of Business Management
204	Sandipta Ghosh	Assistant Professor	01-06-2023	School of Biological & Environmental Sciences
205	Sangeeta Kakkar	Assistant Professor	23-03-2023	School of Biological & Environmental Sciences
206	Sanjeev Singh	Director	15-03-2021	School of Business Management
207	Santanu Mukherjee	Assistant Professor	21-09-2020	MS Swaminathan School of Agriculture
208	Sashank Thapa	Assistant Professor	01-08-2014	School of Design
209	Satish	Assistant Professor	05-03-2021	School of Ancient Indian Wisdom & Yogic Studies
210	Satish Kumar Gupta	Professor	22-01-2019	MS Swaminathan School of Agriculture
211	Saurabh Kulshreshtha	Professor	10-08-2009	School of Biotechnology

212	Shard	Assistant Professor	01-06-2017	School of Business Management
213	Shikha Mahant	Assistant Professor	25-11-2021	School of Pharmaceutical Sciences
214	Shikha Sood	Assistant Professor	06-01-2020	School of Business Management
215	Shikhar Sharma	Assistant Professor	01-05-2011	School of Business Management
216	Shilpa Patial	Assistant Professor	02-08-2021	School of Advanced Chemical Sciences
217	Shivanshi	Assistant Professor	23-03-2022	School of Pharmaceutical Sciences
218	Shrawan Kumar	Assistant Professor	19-07-2022	Yogananda School of AI, Computer and Data Sciences
219	Shubham Verma	Assistant Professor	01-05-2017	School of Business Management
220	Shubhangi Sood	Assistant Professor	04-08-2022	School of Pharmaceutical Sciences
221	Shubhra Mishra	Assistant Professor	01-08-2022	Yogananda School of AI, Computer and Data Sciences
222	Shweta Sharma	Assistant Professor	23-02-2021	MS Swaminathan School of Agriculture
223	Shweta Sharma	Assistant Professor	23-02-2021	School of Advanced Chemical Sciences
224	Simrandeep Kaur	Assistant Professor	13-05-2022	School of Pharmaceutical Sciences
225	Somesh Sharma	Professor	02-04-2012	MS Swaminathan School of Agriculture
226	Sonia	Associate Professor	01-06-2020	Yogananda School of AI, Computer and Data Sciences
227	Sonia Bharti	Assistant Professor	01-03-2023	School of Business Management
228	Sonia Rani	Assistant Professor	04-08-2022	School of Pharmaceutical Sciences
229	Sorabh Aggarwal	Assistant Professor	17-05-2017	School of Core Engineering
230	Subhash Sharma	Assistant Professor	01-05-2019	School of Biotechnology
231	Subodh Saurabh Singh	Associate Professor	01-05-2018	School of Ancient Indian Wisdom & Yogic Studies
232	Suman Rawat	Assistant Professor	15-03-2021	School of Ancient Indian Wisdom & Yogic Studies
233	Sunakshi Gautam	Assistant Professor	25-07-2022	MS Swaminathan School of Agriculture
234	Sunil Kumar	Assistant Professor	26-09-2012	Yogananda School of AI, Computer and Data Sciences

235	Sunil Kumar Sharma	Assistant Professor	27-09-2019	School of Advanced Chemical Sciences
236	Sunil Puri	Professor	14-09-2010	School of Biological & Environmental Sciences
237	Supriya ivastava	Assistant Professor	06-06-2016	School of Business Management
238	Suraj Kanwar Singh	Assistant Professor	25-04-2018	School of Business Management
239	Suraj Verma	Assistant Professor	08-02-2021	School of Business Management
240	Suresh Kumar	Assistant Professor	01-04-2007	School of Bioengineering and Food Technology
241	Sushil Kumar	Assistant Professor	23-08-2012	School of Core Engineering
242	Swarup Roy	Assistant Professor	22-12-2021	School of Bioengineering and Food Technology
243	Swati	Assistant Professor	05-09-2022	School of Biotechnology
244	Swati Pundir	Associate Professor	03-09-2012	School of Pharmaceutical Sciences
245	Swati Soni	Assistant Professor	30-07-2020	School of Law
246	Tamana Bhardwaj	Assistant Professor	15-12-2021	School of Pharmaceutical Sciences
247	Tanbeer Kaur	Assistant Professor	10-09-2021	School of Bioengineering and Food Technology
248	Tej Nath Dhar	Professor	28-01-2021	Chitrakoot School of Liberal Arts
249	Tytiana Tamy Momin	Assistant Professor	01-12-2021	School of Business Management
250	Vandana	Assistant Professor	03-01-2022	School of Bioengineering and Food Technology
251	Varsha Patil	Associate Professor	03-09-2012	School of Business Management
252	Varsha Sharma	Assistant Professor	03-06-2019	School of Business Management
253	Vatika Soni	Assistant Professor	12-07-2021	School of Advanced Chemical Sciences
254	Veena Kashyap	Assistant Professor	23-06-2016	School of Core Engineering
255	Vihang Vivek Ghalsasi	Assistant Professor	15-03-2022	School of Biotechnology
256	Vijay Chauhan	Assistant Professor	22-11-2021	School of Biological & Environmental Sciences
257	Vijay Kumar	Assistant Professor	31-07-2017	School of Business Management

258	Vikrant Chauhan	Assistant Professor	04-05-2011	School of Business Management
259	Vinay Chandel	Assistant Professor	07-03-2022	MS Swaminathan School of Agriculture
260	Vinay Chauhan	Assistant Professor	09-05-2022	School of Advanced Chemical Sciences
261	Vinay Kumar Rachappanavar	Assistant Professor	07-10-2021	MS Swaminathan School of Agriculture
262	Vinay Negi	Assistant Professor	11-12-2017	School of Business Management
263	Vineet Kumar	Assistant Professor	19-05-2022	School of Law
264	Vipin Pubby	Director	05-04-2017	School of Journalism & New Media
265	Virender Rihani	Professor	01-12-2021	School of Core Engineering
266	Vishal Anand	Professor	27-09-2010	School of Business Management
267	Vishal Sharma	Assistant Professor	10-01-2023	School of Biotechnology
268	YS Negi	Professor	29-05-2015	MS Swaminathan School of Agriculture
269	Saima	Assistant Professor	03-04-2023	School of Advanced Chemical Sciences
270	Tarun Pal	Assistant Professor	07-08-2023	School of Bioengineering and Food Technology
271	Dhriti Kapoor	Assistant Professor	04-04-2023	School of Biological & Environmental Sciences
272	Shalini Singh	Associate Professor	28-07-2023	School of Biological & Environmental Sciences
273	Kusum Verma	Assistant Professor	20-07-2023	School of Law
274	Gopali Dayal	Assistant Professor	01-08-2023	Shoolini University Centre for Distance and Online Education (SCDOE)
275	Anurag Kumar	Assistant Professor	17-11-2020	MS Swaminathan School of Agriculture
276	Arvind Singh Bisht	Assistant Professor	08-10-2020	School of Core Engineering
277	Mansoor Ali	Assistant Professor	08-08-2019	MS Swaminathan School of Agriculture
278	Pratima Rana	Assistant Professor	01-03-2021	MS Swaminathan School of Agriculture
279	Perna Bhardwaj	Assistant Professor	31-07-2017	School of Biological & Environmental Sciences

280	Sakshi Sundaram	Assistant Professor	10-08-2020	Chitrakoot School of Liberal Arts
281	Samriti	Assistant Professor	26-07-2021	MS Swaminathan School of Agriculture
282	Vasudha Hasija	Assistant Professor	12-04-2019	School of Advanced Chemical Sciences
283	Rohit Jasrotia	Assistant Professor	20-04-2018	School of Physics & Materials Science
284	Jorge Rinklebe	Professor	29-03-2021	School of Advanced Chemical Sciences

Teachers who received awards, recognition, fellowships

Sr. No.	Name of teachers	Year of Award	Designation	Name of the award, fellowship	Name of the Awarding Agency
1	Dr. Nitika Thakur	2022-2023	Assistant Professor	Young Researcher Award	SGT University, Just Agriculture - The magazine
2	Dr. Rachna Verma	2022-2023	Associate Professor	Distinguished Scientist Award	Indian Society of Genetics, Biotechnology Research and Development, Agra U.P., India
4	Dr. Dinesh Kumar	2022-2023	Professor	Eminent Scientist/ Professor Award	Indian Society of Genetics, Biotechnology Research and Development, Agra UP India
5	Dr. Gaurav Sharma	2022-2023	Professor	Recognized as the World's Top 2% Scientists (Single year 2021)	Elsevier, Stanford University
6	Dr. Pardeep Singh	2022-2023	Professor	Recognized as the World's Top 2% Scientists (Single year 2021)	Elsevier, Stanford University
7	Dr. Pankaj Raizada	2022-2023	Associate Professor	Recognized as the World's Top 2% Scientists (Single year 2021)	Elsevier, Stanford University
8	Dr. Shyam Singh Chandel	2022-2023	Professor	Recognized as the World's Top 2% Scientists (Single year 2021)	Elsevier, Stanford University

9	Dr. Anil Kumar	2022-2023	26	Recognized as the World's Top 2% Scientists (Single year 2021)	Elsevier, Stanford University
10	Dr. Gaurav Saxena	2022-2023	Assistant Professor	Best Poster Presentation Award	The National Academy of Sciences, Prayagraj, Uttar Pradesh & Swami Rama Himalayan University

2.5 Student Performance and Learning Outcomes

Shoolini University meticulously defines and integrates learning outcomes across all its programs, ensuring that the educational objectives—encompassing the necessary competencies, skills, and interdisciplinary knowledge—are clearly communicated and achieved. These learning outcomes are crafted using Bloom's Taxonomy to establish a structured learning progression that is both measurable and achievable.

- 1 Definition and Alignment of Learning Outcomes:** At Shoolini University, learning outcomes for each program and course are systematically defined and aligned with the educational objectives. Each program and course has specified Program Outcomes (POs) and Course Outcomes (COs) that articulate what students are expected to achieve upon completion.
- 2 Autonomy and Mapping:** Faculty members at Shoolini are empowered with autonomy to select and design assessment tools that best fit the course requirements, ensuring that these tools are perfectly aligned with the learning outcomes. To facilitate this, an articulation matrix for each course is developed and periodically reviewed by the Dean Academics or the Chief Learning Officer, ensuring that the assessments accurately measure the intended outcomes.
- 3 Comprehensive Continuous Evaluation System:** The assessment strategy at Shoolini University is predominantly based on continuous assessment, accounting for 70%-80% of the total evaluation, with end-term exams making up the remaining 20%-30%. This continuous assessment includes a variety of components such as written examinations, lab work, presentation by students and student teacher interaction, all designed to provide ongoing feedback and gauge student's comprehension and application.
- 4 Publicizing and Communication Mechanism:** The learning outcomes and the alignment with assessments are transparently communicated through multiple channels. Through these comprehensive mechanisms, Shoolini University not only ensures that learning outcomes are clearly

stated and integrated into the assessment processes but also that they are continually evaluated and refined.

2.5.1 Attainment of Programme outcomes, Programme specific outcomes and course outcomes

Multidisciplinary approach of designing, implementing, and assessing Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) leads to critical and collective understanding of scientific, technological, societal and environmental issues in a global context. The indirect attainment of COs and POs is computed with the help of:

- Feedback Mechanism is taken from various stakeholders such as regular and visiting teachers.
- Students' feedback is obtained through Univ.
- Feedback from alumni, employer, employees, and parents is also obtained.

Internal and end term examinations, with different weights are employed as direct methods. The internal component comprises continuous evaluation whereas the end term examination is a time-bound written test. These criteria are pre-specified in the course booklets.

Deans constitute a committee to develop standards to determine whether students have achieved the desired goals. Data collected using direct and indirect measures is analyzed to document and improve students' learning for their respective programmes. The results of outcomes drive further revision and redesigning of programme Learning outcomes are reflected through improved pass percentage and fewer dropouts. Many students get selected in competitive exams like UPSC, HAS, NET, SLET, GATE, GRE, GPAT etc. A few students get scholarships for Ph. D. and Post Docs from premier institutions.

2.5.2 Number of students passed during the year

Sr. No.	Programme Name	No. of students appeared in the final year examination	No. of students passed the final year examination
1	B.Pharma	94	85
2	M.Pharma Pharmaceutical Chemistry	10	10
3	M.Pharma Pharmacognosy	2	2
4	M.Pharma Pharmaceutics	10	8
5	M.Pharma Pharmacology	12	12
6	BA	16	15

7	BA (Hons) English	14	13
8	BA Journalism and Mass Communication	25	22
9	BALLB	18	18
10	BBA	81	64
11	BBA RM	1	0
12	BCA	18	17
13	B. Com (Hons)	42	38
14	B.Sc Hospitality and Hotel Administration	17	15
15	B.Sc (Hons) Agriculture	59	57
16	B.Sc (Hons) Botany	1	1
17	B.Sc (Hons) Biotechnology	51	49
18	B.Sc (Hons) Chemistry	6	5
19	B.Sc (Hons) Mathematics	15	13
20	BSc Nutrition and Dietetics	12	12
21	BSc (Hons) Food Technology	14	14
22	M.Sc. Ag. (Agriculture Extension & Communication)	8	8
23	M.Sc. Agriculture (Genetics and Plant Breeding)	3	3
24	B.Sc (Hons) Microbiology	26	26
25	B.Sc (Hons) Physics	2	1
26	B.Sc Yoga	25	21
27	B.Sc (Hons) Zoology	20	20
28	B Tech Biotechnnology	65	63
29	B Tech Civil Engineering	15	13
30	B Tech CSE	93	88
31	B Tech Electrical Engineering	16	15
32	B Tech Food Technology	55	55
33	B Tech Mechanical Engineering	17	16
34	LLB	13	13
35	LLM	17	17
36	MA English	3	3
37	MA Journalism	6	5
38	MA Political Science	3	3
39	M.Sc. Maths	9	9
40	MBA	119	104
41	MCA	10	10
42	M.Sc. Agriculture (Agronomy)	24	23
43	M.Sc. Agriculture Soil science	4	4
44	M.Sc Botany	11	11

45	M.Sc Biotechnology	48	48
46	M.Sc Biotechnology (Research)	17	17
47	M.Sc Chemistry	33	33
48	M.Sc Data Analysis	7	6
49	M.Sc Environmental Sciences	8	8
50	MSc Food Technology	21	19
51	MSc Food Technology (Research)	8	8
52	M.Sc Microbiology	25	24
53	M.Sc Microbiology (Research)	5	5
54	M Sc Nutrition and Dietetics	6	6
55	M.Sc Physics	10	10
56	M Sc Psychology	3	3
57	M.Sc Yoga	12	12
58	M.Sc Zoology	15	15
59	M.Tech Biotechnology	12	12
60	M Tech Civil Engineering	1	1
61	M Tech ECE	1	1
62	M.Tech CSE	2	2
63	M Tech Food Technology	16	15
64	PG Diploma in AI & Data Science	1	1
65	PG Diploma in Cloud Computing	1	1
66	PG Diploma in Direct Selling	8	5
67	PG Diploma in Journalism	1	1
68	PG Diploma in Fintech	1	1
69	Ph.D Biotechnology	5	5
70	Ph.D Civil Engineering	2	2
71	Ph.D Chemistry	9	9
72	Ph.D CSE	4	4
73	Ph.D ECE	1	1
74	Ph.D Energy	3	3
75	Ph.D English	1	1
76	Ph.D Food Technology	3	3
77	Ph.D Mechanical Engineering	1	1
78	Ph.D Management Sciences	6	6
79	Ph.D Microbiology	3	3
80	Ph.D Pharmaceutical Sciences	5	5
81	Ph.D Physics	1	1
82	Ph.D Yoga	6	6
83	Ph.D Botany	8	8

CHAPTER-III

RESEARCH, INNOVATIONS AND EXTENSION

3.1 Promotion of Research and Facilities

- Shoolini University is dedicated to maintaining and advancing its research facilities, ensuring they are regularly reviewed and upgraded to meet the highest standards of excellence. The institution's commitment to research is evident through various prestigious grants and investments that have significantly enhanced its capabilities.
- One of the key developments at Shoolini University is the receipt of the PURSE Grant from the Department of Science and Technology (DST), amounting to Rs 9 crore. This substantial fund has enabled the acquisition of specialized equipment in life sciences, biology, and chemistry. Additionally, the university has established a Nanotechnology Laboratory with a grant of Rs 4.95 crore from Vardhman Textiles Ltd., and a Food Testing Laboratory, created with financial assistance from the Ministry of Food Processing Industries (MoFPI), equipped with advanced tools such as ICP-OES, GCMS/MS, and UHPLC. A Proteomics Facility has also been set up under the DST FIST Scheme, further bolstering the university's research infrastructure.
- In line with its focus on innovation and entrepreneurship, Shoolini University has established several centers dedicated to these areas. The i-TBI Center has been approved under the NIDHI i-TBI program by DST, while the iHUB, a technology innovation hub, is supported by a grant from iHUB DivyaSampark. Additionally, the Institution Innovation Council has been established following the guidelines of the Ministry of Education (MoE).
- The Yogananda Knowledge Center represents a significant investment in knowledge support, boasting an extensive collection of books, journals, e-journals, databases, and e-resources like EBSCO, JSTOR, SSC Online, ManuPatra, and SciVal. To further support research activities, Shoolini University has established several research centers, including an Intellectual Property Rights (IPR) Cell, with annual infrastructure grants allocated for their upgradation.
- The university has a well-defined research policy. The Shoolini University Research Committee plays a crucial role in steering the research agenda and formulating the research policy. Comprising key members such as the Chairperson, Vice-Chairperson, Deans, industry experts, external academics, research faculty representatives, and student representatives, the committee is responsible for strategic planning, funding allocation, monitoring and evaluation of ongoing research projects, industry-academia collaboration and international partnerships,

compliance with ethical guidelines, and promotion of a research culture.

- As per the policy the university provides- support for publishing in SCOPUS-indexed journals, seed funding, financial assistance for filing patents and attending conferences. The university recognizes and rewards high-quality publications, research projects, and patents through various awards and financial support, including fellowships and stipends for doctoral students. The policy also ensures embedding research into its curriculum by offering innovative courses. The institution is also committed to sustainable development, focusing on fostering sustainable practices in the Himalayan region and supporting the SDGs. The impact of Shoolini University's research efforts is quantifiable, with 4000+ scopus publications till date out of which 792 research papers published in reputed journals in 2023 as per Scopus database. 1500+ IP's filed till date with 132 patents granted and 276 industrial designs, 123 registered copyrights and 11 trademarks registered. The university has also secured over Rs. 38+ crores in external research funding over the year.

3.1.1 Seed money to its teachers for research: ₹ 44,36,000

Sr.no.	Name of the teacher provided with seed money	The amount of seed money	Year of receiving
1	Rohit Jasrotia	₹ 2,50,000	2022-2023
2	Abhishek Kandwal	₹ 3,00,000	2022-2023
3	Anita Sudhaik	₹ 2,50,000	2022-2023
4	Arunava Poddar	₹ 3,45,000	2022-2023
5	Muntazir Mushtaq	₹ 2,88,000	2022-2023
6	Navsal Kumar	₹ 2,70,000	2022-2023
7	Arun Prashar	₹ 3,40,000	2022-2023
8	Rohit Sharma	₹ 3,00,000	2022-2023
9	Praveen Kumar Verma	₹ 3,50,000	2022-2023
10	Rupak Nagraik	₹ 3,00,000	2022-2023
11	Jyoti Mehta	₹ 2,80,000	2022-2023
12	Vinaykumar Rachappanavar	₹ 2,50,000	2022-2023
13	Sunil Kumar Sharma	₹ 3,00,000	2022-2023
14	Saurabh Kulshrestha	₹ 3,50,000	2022-2023
15	Lokender Kumar	₹ 2,63,000	2022-2023

3.1.2 Teachers receiving national/ international fellowship/ financial support

Sr. No.	Name of the teacher	Name of the award/fellowship	Awarding Agency
1	Lalit Sharma	Conference Fellowship for the Alzheimer's Association International Conference® 2023 (AAIC®)	Alzheimer's Association
2	Rohit Goyal	WCP2023 Early Career Travel Bursary	World Congress of Basic and Clinical Pharmacology
3	Gun Anit Kaur	Prof. ZL Wang Scholarship	International Association of Advanced Materials
4	Dinesh Kumar	SERB grant for advanced research	Science and Engineering Research Board
5	Praveen Kumar Verma	HIMCOSTE grant for advanced Research	Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE)
6	Santanu Mukherjee	USCI Grant for Advanced Research	UCSI University

3.1.3 JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows enrolled

Sr.No	Name of Research fellow	Duration	Type of the fellowship	Granting agency
1	Shailja Sharma	2 years	Junior Research Fellow (Project Associate-I)	Science and Engineering Research Board
2	Varun Aggarwal	2 years	Project Associate	Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE)
3	Chandresh Kumari	3 years	Research Associate	Department of Biotechnology
4	Sonali Khanal	3 years	Junior Research Fellow	Science and Engineering Research Board
5	Th. Abhishek Singh	2 years	Project Assistant-II	iHUB Shoolini
6	Pankaj Sharma	3 years	Junior Research Fellow	Shoolini University
7	Sahil Rana	3 years	Junior Research Fellow	Shoolini University
8	Yaksha Verma	3 years	Junior Research Fellow	Shoolini University
9	Simran Deep Kaur	3 years	Junior Research Fellow	Shoolini University
10	Suraj Prakash	3 years	Junior Research Fellow	Shoolini University

3.1.6 Recognitions by national and international agencies

Sr. No.	Name of the Project	Name of the Funding agency	Name of the Principal investigator	Funds provided (INR in lakhs)	Duration of the project
1	Technology Innovation Hub	iHUB DivyaSampark	Dr. Deepak Kumar	₹ 20,47,000	2 Years
2	DST PURSE	Department of Science and Technology	Shoolini University	₹ 9,00,00,000	4 Years

3.2 Resource Mobilization for Research

3.2.1 Extramural funding for Research endowments: ₹ 9,57,67,828

Sr.no.	Name of the Endowments	Name of the Investigator	Name of the Funding agency	Funds provided (INR lakhs)	Duration of the project
1	Elucidation the impact and biological relevance of cellular senescence in macrophage aging and identification of mitigative nutritional immunotherapy	Dr. Rohit Sharma	Science and Engineering Research Board	₹ 23,00,000	2022-2024
2	Studies on the interaction between the anticancer drug derivatives Wikstromal, Matairesinol, and Dibenzylbutyrol actol (obtained from the Himalayan cedar plants) and biocompatible graphene	Dr. Gururaj Kudur Jayaprakash	Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE)	₹ 1,15,002	2022-2024
3	Potency of rGOas electron	Dr. Mamta Shandilya	Science and Engineering	₹ 14,50,000	2022-2025

	transport layer to enhance the photovoltaic behavior for perovskite solar cell application		Research Board		
4	NIDHI-Inclusive Technology Business Incubator i-TBI	Dr. Kuldeep Rojhe	Department of Science and Technology	₹ 1,65,00,000	2023-2025
5	Extraction of Anti-viral HINI Drug Precursor Shikimic Acid and Related Cyclitols from Himalayan Medicinal Plants and their Value Addition for Valuable Scaffolds	Dr. Praveen Kumar Verma	Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE)	₹ 2,48,000	2023-2025
6	Photovoltaic behaviour of rare-earth doped bismuth ferrite nano fibers for potential application in perovskite solar cells	Dr. Mamta Shandilya	Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE)	₹ 2,45,000	2021-2023
7	Prospecting of wild Ganoderma lucidum growing in Himachal Himalaya for hyperpresence of biomolecules and cultivation of potential strain for value added nutraceutical products	Dr. Dinesh Kumar	Science and Engineering Research Board	₹ 7,35,975	2022-2024
8	iHUB Shoolini as an extension center of iHUB DivyaSampark	Dr. Deepak Kumar	iHUB DivyaSampark	₹ 10,07,000	2022-2024
9	Returning Taxus to the Forests and the People: a study in Shimla and Kullu Districts of the	Dr. Rachna Verma	National Mission on Himalayan Studies	₹ 7,01,430	2019-2022

	Indian Himalayan Region				
10	Promotion of University Research and Scientific Excellence	Dr. Saurabh Kulshreshtha	Department of Environment, Science and Technology	₹ 7,24,65,421	2023-2026

3.2.2 Grants for research projects sponsored by the government agencies

Sr.no.	Name of the Project	Name of the Investigator	Name of the Funding agency	Funds provided (INR in lakhs)	Duration of the project
1	Development of method/ filter to purify salon wastewater using Moringa oleifera seeds	Dr. Saurabh Kulshrestha	Henkel AG & Co.	₹ 9,58,514	2022-2024
2	Research in Nanotechnology for Environmental Detoxification, Clean Energy Production, and Waste Utilization	Dr. Dinesh Kumar	Vardhman	₹ 4,65,00,000	2022-2027

3.2.3 Research projects per teacher funded by government and non-government agencies

Sr. No.	Name of the Project	Name of the Investigator	Name of the Funding agency	Funds provided (INR in lakhs)	Duration of the project
1	Elucidation the impact and biological relevance of cellular senescence in macrophage aging	Dr. Rohit Sharma	Science and Engineering Research Board	₹ 23,00,000	2022-2024

	and identification of mitigative nutritional immunotherapy				
2	Studies on the interaction between the anticancer drug derivatives Wikstromal, Matairesinol, and Dibenzylbutyrolactol (obtained from the Himalayan cedar plants) and biocompatible graphene	Dr. Gururaj Kudur Jayaprakash	Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE)	₹ 1,15,002	2022-2024
3	Potency of rGOas electron transport layer to enhance the photovoltaic behavior for perovskite solar cell application	Dr. Mamta Shandilya	Science and Engineering Research Board	₹ 14,50,000	2022-2025
4	NIDHI-Inclusive Technology Business Incubator i-TBI	Dr. Kuldeep Rojhe	Department of Science and Technology	₹ 1,65,00,000	2023-2025
5	Extraction of Anti-viral HINI Drug Precursor Shikimic Acid and Related Cyclitols from Himalayan Medicinal Plants and their Value Addition for Valuable Scaffolds	Dr. Praveen Kumar Verma	Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE)	₹ 2,48,000	2023-2025
6	Photovoltaic behaviour of rare-earth doped bismuth ferrite nano fibers for potential application in perovskite solar cells	Dr. Mamta Shandilya	Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE)	₹ 2,45,000	2021-2023
7	Prospecting of wild Ganoderma lucidum growing in Himachal Himalaya for hyperpresence of	Dr. Dinesh Kumar	Science and Engineering Research Board	₹ 7,35,975	2022-2024

	biomolecules and cultivation of potential strain for value added nutraceutical products				
8	iHUB Shoolini as an extension center of iHUB DivyaSampark	Dr. Deepak Kumar	iHUB Divya Sampark	₹ 10,07,000	2022-2024
9	Returning Taxus to the Forests and the People: a study in Shimla and Kullu Districts of the Indian Himalayan Region	Dr. Rachna Verma	National Mission on Himalayan Studies	₹ 7,01,430	2019-2022
10	Promotion of University Research and Scientific Excellence	Dr. Saurabh Kulshreshtha	Department of Environment, Science and Technology	₹ 7,24,65,421	2023-2026
11	Development of method/ filter to purify salon waste water using Moringa oleifera seeds	Dr. Saurabh Kulshreshtha	Henkel AG & Co.	₹ 9,58,514	2022-2024
12	Research in Nanotechnology for Environmental Detoxification, Clean Energy Production, and Waste Utilization	Dr. Dinesh Kumar	Vardhman	₹ 4,65,00,000	2022-2027

3.3 Innovation Ecosystem

- Initiatives to Foster Innovation and Entrepreneurship Establishment of Research Centers:** Shoolini University has set up several research centers to promote focused and collaborative research. These centers are equipped with advanced facilities and provide a platform for interdisciplinary research and innovation like Research Centre in Nanotechnology, Research Centre in OMICS and Biodiversity Research, Research Centre in Automobile Engineering, Research Centre in Yoga, Research Centre in Disaster Management, Research Centre in Data Analytics, Research Centre of Post Graduate Legal Studies, Centre of Excellence in Energy Science and Technology, International Research Centre of Nanotechnology for Himalayan Sustainability (IRCNHS).

- **Steve Jobs Innovation and Incubation Centre:** Launched in March 2017, the center offers a worldclass co-working space, incubation seed capital as per requirements, and expert guidance in legal, business planning, strategy, and technical areas. It also houses specialized labs, such as the Tinkering Lab, and supports patent filing and commercialization efforts.
- **Seed Funding and Financial Assistance:** The university provides seed funding and financial assistance for research, attending workshops, and patent filing. These resources are available to both undergraduate and postgraduate students, encouraging them to engage in research and innovation from an early stage.
- **Innovative Courses:** Shoolini University has integrated research opportunities into its curriculum through innovative courses. This research-integrated curriculum ensures that students are exposed to research methodologies and practices as part of their academic journey like Summit Research programme.
- **Intellectual Property Rights (IPR) and Ethics:** Shoolini University has established a dedicated IPR Cell that provides guidance and support to researchers in protecting their intellectual property. The team includes two in-house patent, two Advocates, IP Attorneys, and trademark attorneys who provide expert support and guidance. In addition, the team has dedicated analysts for each domain, including biotechnology, biology, chemistry, food, engineering, basic sciences, and pharmacy.
- **Collaboration and Technology Transfer:** The university has signed over 350+ Memoranda of Understanding (MoUs) with various institutes and industries, including more than 250+ international and 100+ national MoUs. 26 patents are commercialized to AADDOO Softech Private Ltd. and SLS in last five years.
- **Preservation and Promotion of Indian Knowledge System (IKS):** Through the Yogananda Center for Theology and the Yogananda School of Spirituality and Happiness, Shoolini University actively promotes Indian culture, philosophy, spirituality, art, and literature.
- **Achievements and Recognition Research Output (2019-2023):** Published 2848 research papers, received 62,091 citations, and achieved a field-weighted citation impact of 2.07. Notably, 63% of the research involves international collaboration.
- **Intellectual Property Achievements:** Filed over 1500+ IP's, with more than 132 patents granted. Additionally, it has registered 276 industrial designs, 123 copyrights, and 11 trademarks.
- **Global and National Rankings:** Ranked as the No. 1 private university in India in both QS and THE World University Rankings 2024. It also ranks 1st in India and 5th in Asia for citations per paper (QS Asia University Rankings 2024), and 9th in India for patent filing (Indian Patent Office). Its H-index is 128, the second highest among universities established after 2008. Thirteen

faculty members have been recognized as the World's Top 2% Scientists by Elsevier.

3.3.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development

Sr. No.	Name of the workshop/seminar	Number of Participants	Date
1	Conference on Himalayan Science and Technology (HiSTCon)	120	29-04-2023 to 30-04-2023
2	Two-Day Hackathon on AI	63	22-03-2023 to 23-03-2023
3	A webinar on I-STEM: The Platform for Researchers and Funding Opportunities	78	27-9-2022
4	INSIGHT AND HANDS-ON TRAINING PROGRAM ON TECHNIQUES IN BIOTECHNOLOGY DST STUTI	50	21-07-2022 to 27-07-2022
5	DIALECTICUSS: Himalayan Literary Forum	18	22-09-2023
6	Skill Progression through Rapid Intensive and Innovative Training on Entrepreneurship for - Core Engg, CSE- 6th Semester	146	3-05-2023 to 4-05-2023
7	Skill Progression through Rapid Intensive and Innovative Training on Aligning Internship with Career Interest for MBA Quad 4	112	29-05-2023 to 31-05-2023
8	Skill Progression through Rapid Intensive and Innovative Training on your Career for BTech and B. Sc BT Research, FT Research, BI, Micro Research, Nutrition 2nd Semester students	166	28-06-2023

3.4 Research Publications and Awards

3.4.1 Incentives to teachers who receives state, national and international recognitions/awards

Sr. No.	Title of the innovation	Name of the Awardee	Name of the Awarding Agency with contact details
1	Young Researcher Award	Dr. Nitika Thakur	SGT University, Just Agriculture - The magazine
2	Distinguished Scientist Award	Dr. Rachna Verma	Indian Society of Genetics, Biotechnology Research and Development, Agra U.P., India
3	3rd Prize in Oral Presentation	Ms Archie Sehgal	1st National Conference on Himalayan Science & Technology
4	Eminent Scientist/ Professor Award	Dr. Dinesh Kumar	Indian Society of Genetics, Biotechnology Research and Development, Agra UP India
5	Recognized as the World's Top 2% Scientists (Single year 2021)	Dr. Gaurav Sharma	Elsevier, Stanford University
6	Recognized as the World's Top 2% Scientists (Single year 2021)	Dr. Pardeep Singh	Elsevier, Stanford University
7	Recognized as the World's Top 2% Scientists (Single year 2021)	Dr. Pankaj Raizada	Elsevier, Stanford University
8	Recognized as the World's Top 2% Scientists (Single year 2021)	Dr. Shyam Singh Chandel	Elsevier, Stanford University
9	Recognized as the World's Top 2% Scientists (Single year 2021)	Dr. Anil Kumar	Elsevier, Stanford University
10	Ranked 9 th in Asia in Citations per paper	Shoolini University	Quacquarelli Symonds (Asia University rankings 2024)
11	Winner of Lead the Change Campaign	Ananya Gupta	QS I-Gauge
12	Best Poster Presentation Award	Dr. Gaurav Saxena	The National Academy of Sciences, Prayagraj, Uttar Pradesh & Swami Rama Himalayan University

13	Award for excellence in research	Dr. Deepak Kumar	Global teaching excellence awards
14	Ranked 319 Globally in Citations per faculty	Shoolini University	Quacquarelli Symonds (World University rankings 2024)
15	Honorary Fellowship	Prof. P.K. Khosla	Himalayan Forum for Science and Technology Communication, Solan, Himachal Pradesh

3.4.2 Number of Patents published/awarded during the year.

Sr. No.	Name of the Patenter	Patent Number	Title of the patent	Year of Award of patent
1	Dr. Arshdeep Singh, Dr. Anurag Kumar, Dr. Sanchit Thakur, Dr. Shimpy Sarkar	354821-001	Winter Bees Happy House	26-Jul-23
2	Dr. Pooja Shandilya, Ankita Guleria	202011057339	A NOVEL NANOCOMPOSITE PHOTOCATALYST AND A PROCESS FOR THE PREPARATION THEREOF	21-Jul-23
3	Dr. Amit Kumar, Dr. Sanchit, Pawan	364979-001	SOIL TILLAGE MACHINE	17-Jul-23
4	Dr Kamal Dev, Dr. Anuradha Sourirajan	365278-001	SMART NASAL MASK	17-Jul-23
5	Adarsh, Aman Sharma, Hitesh Kumar, Lakhan Paul, Lokesh Thakur, Prashant Sharma, Brij Bhushan Sharma, Suhel Khan.	366530-001	PORTABLE GREENHOUSE	13-Jul-23
6	Mrs. Kirti Singha, Dr. Virender Pratap Singh, Mrs. Monika Chandel, Dr. Rajesh Kumar	202011014157	BA-SR CO ₂ -TYPE FERRITE BASED NANOMATERIAL AND A PROCESS FOR THE PREPARATION THEREOF	05-Jul-23
7	Poonam Kumari, Rohit Goyal, Vikas Sharma, K. L. Dhar	201811019919	NOVEL NEURO-PROTECTIVE MOLECULE	30-Jun-23

8	Dr Mamta Shandilya	2019110129 31	A PROCESS FOR SYNTHESIS OF LEAD FREE BARIUM, STRONTIUM TITANATE BA0.90SR10TIO3	30-Jun-23
9	Arun Kumar, Dr. Deepak Kumar, Dr. Jay Singh	357403-001	MULTIPURPOSE MODEL FOR TESTING ANTIANXIETY EFFECT AND MOTOR COORDINATION IN RODENTS	27-Jun-23
10	Lokender Kumar, Kanika Arora, Monish Bisen, Pradeep Kumar and Saurabh Kulshrestha	369712-001	HEXA PLATE	27-Jun-23
11	Dr. Kamal Dev, Dr. Anuradha Sourirajan	358595-001	SOLAR POWERED DIGITAL WEIGHING MACHINE	26-Jun-23
12	Harshit Gupta, Dr. Kamal Dev, Mr. Sorabh Aggarwal	361350-001	ELECTRIC MILK BOTTLE WARMER	26-Jun-23
13	Dr. Amit Kumar	361346-001	IRRIGATION PIPE ROLLER	26-Jun-23
14	Dr. Rajesh Kumar, Ritesh Verma, Ankush Chauhan, Rahul Kalia	349363-001	WATER BOTTLE WITH MECHANICAL HEATING	19-Jun-23
15	Pankaj Raizada, Anita Sudhaik, Pardeep Singh	2018110380 18	NOVEL AG BASED HETEROJUCTIONED NANOCATALYST FOR WASTEWATER PURIFICATION	16-Jun-23
16	Pramod Prakash, Abhinash, Dr. Reshma Sinha	358072-001	AUTO HEATING SOCKS	13-Jun-23
17	Sunita Sharma, Anshula Grover, Shivam Mehra.	364982-001	TROLLEY BAG	07-Jun-23
18	Ritika Rana, Dr. Kamal Dev, Mr. Sorabh Aggarwal	361342-001	AUTOMATIC BREAST PUMP	01-Jun-23
19	Pawan, Ritika Rana	366877-001	AUTOMATED ANIMAL FEEDER	01-Jun-23
20	Kamlesh, Ashok Pundir Dr. Radha, Adolfo Andredo Cetto	367091-001	FLOWER POT STAND	01-Jun-23

21	Muskan Rana	378298-001	SWING SHELF	01-Jun-23
22	Aryan Tyagi	378569-001	SELF-DEPLOYING SEAT	01-Jun-23
23	Noorullah Yusufi, Er. Vikas Mehta, Dr. M.S. Thakur, Priyanka Panchal	201911026507	A METHOD FOR PREPARING BITUMINOUS CONCRETE MIXES BY USING FLY-ASH AND WASTE-POLYETHYLENE	29-May-23
24	Mrs. Monika Chandel, Dr. Virender Pratap Singh, Mrs. Kirti Singha, Mr. Rohit Jasrotia, Dr. Rajesh Kumar	202011014156	LA3+/NI2+ IONS DOPED SRCO2FE12O22 Y-TYPE HEXAFERRITE-BASED NANOMATERIAL AND A PROCESS FOR THE PREPARATION THEREOF	29-May-23
25	Ritika Rana, Mr. Sorabh Aggarwal, Dr. Kamal Dev	361349-001	SHOTS HOLDER	25-May-23
26	Anshika Bhatti	378290-001	COOKING PAN	25-May-23
27	Dr. Ankush Chauhan, Prof. Rajesh Kumar, Dr. Ritesh Verma, Mr. Rahul Kalia	358493-001	BLIND MAN STICK	24-May-23
28	Khushi Rawat	378300-001	CUSHION MASSAGER	24-May-23
29	Sushil Kumar, Dr. Sudip Banerjee, Dr. Ashwani Sharma, Amita Verma	381964-001	ANTISKID SHOE GRIPPER	24-May-23
30	eshta Sharon	381961-001	ADJUSTABLE CLOSET HANGER	24-May-23
31	Rahul Chandel, Sham Singh Chandel, Ram Parkash Diwadi	341089-001	PORTABLE WATER HEATING SOLAR COLLECTOR	23-May-23
32	Shoolini University, Dr. Ankush Chauhan, Dr. Ritesh Verma, Prof. Rajesh Kumar	353310-001	FAN	23-May-23
33	Mrs. Monika Chandel, Dr. Virender Pratap Singh, Mrs. Kirti Singha, Mr.	202011014159	DY3+ / NI2+ IONS DOPED SR2CO2FE12O22 Y-TYPE HEXAFERRITE	18-May-23

	Rohit Jasrotia, Dr. Rajesh Kumar		BASED NANOMATERIAL AND A PROCESS FOR THE PREPARATION THEREOF	
34	Shruti Thakur, Rimjhim Kapil, Samridhi Sharma, Arun Kumar, Dr. Deepak Kumar	366881-001	THERMOMETER	18-May-23
35	Rahul Chandel, Sham Singh Chandel, Ram Parkash Diwadi	341090-001	CONTROLLED LAZER HEATING SYSTEM (CLHS)	17-May-23
36	Sunita, Nishika Sharma	368030-001	MULTIPURPOSE TABLE	17-May-23
37	Mr. Sunil Kumar ,Dr. Deepak Kumar	354466-001	STORAGE BOX FOR THE SYNTHESIZED COMPOUNDS WITH A DIGITAL CONSOLE	16-May-23
38	Pawan, Anshula Grover, Shivam Mehra Harshit Gupta, Ritika Rana	360046-001	FOLDABLE TABLE	16-May-23
39	Nittan Sharma	378297-001	SCALP GROOVER	16-May-23
40	Abhinav Kumar Tiwari	378292-001	SMART DUSTBIN	16-May-23
41	Ritika Rana, Harshit Gupta, Shivam Mehra Anshula Grover, Pawan	360044-001	CAR DISPLACER	15-May-23
42	Anshula Grover, Shivam Mehra, Ritika Rana, Harshit Gupta	357404-001	TUB-MINI-WASHING PILLAR	12-May-23
43	Ritika Rana, Harshit Gupta, Shivam Kohli, Anshula Grover	357405-001	MINI- WASHER	12-May-23
44	Dr. Ankush Chauhan, Prof. Rajesh Kumar, Dr. Ritesh Verma, Mr. Rahul Kalia	357470-001	HEALTH VEST	12-May-23
45	Dr. Ankush Chauhan, Prof. Rajesh Kumar, Dr. Ritesh Verma, Mr. Rahul Kalia	358074-001	THRESHER DUSTBIN	12-May-23
46	Nakibul Islam Mondal, Monu Kumar Shukla, Dr. Deepak Kumar.	367049-001	HEATING EQUIPMENT	12-May-23
47	Janhvi Tripathi	378365-001	ROLLER CABINET	12-May-23

48	Arun Kumar	378899-001	PRE-STUFFED SOLDERING IRON	11-May-23
49	Dr. Mamta Shandilya, Dr. Radheshyam Rai, Dr. Steven J.Milne, Dr. Rajesh Kumar	2018110380 17	HIGH DIELECTRIC LEAD FREE BA0.95CA0.05TIO3 MATERIAL SYNTHESIZED BY HYDROTHERMAL METHOD FOR ENERGY HARVESTERS	09-May-23
50	Aayushi Sharma	378293-001	SPRAY BAND	08-May-23
51	Raunak Aggarwal	378568-001	PILL ALARM	08-May-23
52	Harshita i	378898-001	SINGING BOWL WITH LAMP	03-May-23
53	Chef Nagendra Yadav, Ankit Shukla, Pratip Mazumdar	367090-001	DIGITAL AUTO TEMPERATURE LIQUID POT	19-Apr-23
54	Harshit Gupta, Ritika Rana	368032-001	TROLLY BAG	19-Apr-23
55	Shivam Mehra, Anshula Grover.	368031-001	PEDDER	19-Apr-23
56	The Emerald Heights International School, Jiya Patidar	369602-001	CLEANING ROBOT	18-Apr-23
57	Jyotika Thakur	378364-001	LEPROSY DETECTOR	18-Apr-23
58	Prakash, Abhinash.	366421-001	COELOMIC FLUID EXTRACTING DEVICE	13-Apr-23
59	Dr. Amit Kumar.	367046-001	MOVABLE STOOL	13-Apr-23
60	Himakshi Rathour	378363-001	LADDER CHAIR	11-Apr-23
61	Chef Nagendra Yadav, Ankit Shukla, Dr. Neeraj Puri, Dr. Gurvinder Pal Singh	378366-001	TANDOOR WITH TEMPERATURE CONTROLLER	11-Apr-23
62	Saurabh Kulshreshtha, Sunny Bindra	2018110197 63	LOW COST AND ECO-FRIENDLY PROCESS FOR PRODUCTION OF BIODIESEL FROM BIOWASTE	06-Apr-23
63	Kamlesh, Ashok Pundir, Prof. Adolfo AndredoCett, Dr. Radha	367041-001	BIODEGRADABLE MAT	06-Apr-23

64	Kamlesh, Ashok Pundir Dr. Radha, Daljeet singh	367095-001	LAPTOP STAND WITH ATTACHED OFFICE TABLE	06-Apr-23
65	Kamlesh, Ashok Pundir Dr. Radha, Dr. Manoj Kumar	367092-001	HEPA AND PRE FILTER	05-Apr-23
66	Ritika Rana, Harshit Gupta	369050-001	PORTABLE TOILET SEAT	05-Apr-23
67	Ankit Shukla,CHEF Nagendra Yadav	367043-001	FOLDING ADJUSTABLE TABLE	30-Mar-23
68	Dr. Ritesh Verma, Dr. Ankush Chauhan, Prof. Rajesh Kumar, Mr. Rahul Kalia.	367287-001	PEPPER SPRAY PEN	30-Mar-23
69	Mhademo T Tsanglao	378299-001	ADJUSTABLE BENCH	21-Mar-23
70	Neeraj Thakur	378296-001	PORTABLE CLOTH HANGER	21-Mar-23
71	Poonam Negi, Nidhi, Navneet K Upadhyay	2018110413 53	IMPROVED TOPICAL COMPOSITION OF ADAPALENE FOR ACNE TREATMENT AND METHOD THEREOF	17-Mar-23
72	Pankaj Raizada, Kirti Sharma, Pardeep Singh	2019110094 49	COMPOSITE PHOTOCATALYST FOR TREATMENT OF WATER POLLUTED WITH ORGANIC DYES AND METHOD THEREOF	17-Mar-23
73	Kamlesh, Dr. Radha, Ashok Pundir, Kumari Baveja Devi	366055-001	WALL CLOCK	17-Mar-23
74	Sushil Kumar, Shivanya Thakur, Sonia Kumari, Anjali Kaushal, Sakshi Guleria and Ranjna Kumari	367930-001	WEIGHT CARRYING HANDLE	17-Mar-23
75	Kamlesh, Dr. Radha, Ashok Pundir	357400-001	VORTEX SHAKER WITH MAGNETIC STIRRER WITH HOT PLATE	16-Mar-23
76	Pramod Prakash	358494-001	CHULENETOR	14-Mar-23
77	Priti Thakur	378295-001	BACKPACK CONTAINER	14-Mar-23

78	Dr. Ankush Chauhan, Prof. Rajesh Kumar, Dr. Ritesh Verma, Mr. Rahul Kalia	358501-001	SMART UTENSILS	13-Mar-23
79	Rajesh Sharma, Rohit Jasrotia, Virender Partap Singh, Mahavir Singh	201811049037	NANOFERRITES FOR MEMORY	10-Mar-23
80	Harshit Gupta, Ritika Rana, Sorabh Aggarwal, Sashank Thapa	357402-001	SOLAR ELECTRIC POWER GENERATOR	09-Mar-23
81	Anshula Grover, Shivam Mehra	368028-001	CUP HOLDER	09-Mar-23
82	Kamlesh, Dr. Radha, Ashok Pundir	357408-001	BIODEGRADABLE MULTIUSE DUSTBIN	07-Mar-23
83	Apar Kaushik, Harshit Gupta	349941-001	ADJUSTABLE RESILIENCE WHEEL	06-Mar-23
84	Mihir Sharma, Nandini Rao, Dr. Kamal Dev	378294-001	SUSTAINABLE ANTI-MONKEY THEFT DUSTBIN	03-Mar-23
85	Navneet Kumar Upadhyay, Poonam Negi, Sameer Sapra	201811022580	BIOANALYTICAL METHOD FOR SIMULTANEOUS ESTIMATION OF SAXAGLIPTIN AND GLIMEPIRIDE IN BIOLOGICAL FLUIDS	28-Feb-23
86	Dr. Kamal Dev, Dr. Anuradha Sourirajan	354883-001	APPLE HARVESTER	27-Feb-23
87	Dr. Anuradha Sourirajan, Dr. Kamal Dev	369051-001	SEED EXTRACTOR	23-Feb-23
88	Pramod Prakash, Mr. Abhinash, Aryan Sokhta	354824-001	THE BIOELECTRICITY PRODUCTION PLANT	22-Feb-23
89	Dr. Kamal Dev, Dr. Anuradha Sourirajan	369052-001	THRESHING MACHINE	16-Feb-23
90	Sunil Kumar, Dr. Sadanand Pandey, Dr. Deepak Kumar	357406-001	DIGITAL PH METER	07-Feb-23
91	Anshula Grover, Mr. Sorabh Aggarwal, Dr. Kamal Dev	361345-001	PAN	03-Feb-23
92	Kamlesh, Ashok Pundir Dr. Radha, Dr. Manoj Kumar	367093-001	HOT AIR OVEN	03-Feb-23
93	Ranchan Chauhan, Adit Rana, RAJ KUMAR	201711024743	ENERGY EFFICIENT IMPINGING JET	02-Feb-23

			SOLAR FOOD DRYER	
94	Shoolini University, Deepak Kumar, Rohit Goyal	352840-001	ACTIVITY WHEEL MAZE FOR MICE	01-Feb-23
95	Chef Nagendra Yadav, Ankit Shukla, Pratip Mazumdar	373076-001	BAG HOLDER UMBRELLA	01-Feb-23
96	Pankaj Raizada, Anita Sudhaik, Adesh K Saini, Pardeep Singh	201811023694	A METHOD FOR SYNTHESIS OF GRAPHITIC CARBON NITRIDE (g-C ₃ N ₄) BASED METAL FREE NANOCOMPOSITES	31-Jan-23
97	Pankaj Raizada, Anita Sudhaik, Adesh K. Saini, Pardeep Singh	201811018238	SYNTHESIS OF MAGNETICALLY SEPARABLE GRAPHITIC CARBON NITRIDE BASED PHOTOCATALYST AND METHODS THEREOF	30-Jan-23
98	Pankaj Raizada, Vasudha Hasija, Pardeep Singh, Anita Sudhaik	201911012291	r Z-SCHEME PHOTOCATALYST AND A PROCESS FOR THE PREPARATION THEREOF	23-Jan-23
99	Shashank Thapa, Akshay Pathania, Sorabh Aggarwal, Arjun Patial	201711020456	A MACHINE FOR CALCULATE CUTTING FORCE AND METHODS THEREOF	16-Jan-23
100	Arun Kumar	366882-001	ELECTRIC BRUSH	13-Jan-23
101	Suman Rawat	371594-001	ERGONOMIC CHAIR	13-Jan-23
102	Dr Kamal Dev, Dr. Anuradha Sourirajan	365280-001	SOLAR POWERED MOBILE CHARGER	12-Jan-23
103	Dr. Amit	366879-001	BLUETOOTH SPEAKER SHOWER	11-Jan-23
104	Sushil Kumar, Sonia Kumari, Sakshi Guleria	340781-001	AUTOMATIC SOLAR PANEL CLEANING DEVICE	10-Jan-23
105	Ankush Chauhan, Swati, Rajesh Kumar, Saurabh Kulshreshtha, Mamta	201911012292	A PROCESS OF SYNTHESIS OF AGZNO NANOPARTICLES	09-Jan-23

	Shandilya, Sonu, Vikrant Sharma		USING TRILLIUM GOVANIANUM	
106	Pawan, Harshit Gupta.	366885-001	TAPE-O-SCISSOR	06-Jan-23
107	Dr Kamal Dev, Dr. Anuradha Sourirajan	365279-001	SOLAR POWERED SPEED BOAT	04-Jan-23
108	Sushil Kumar, Shivanya Thakur, Sonia Kumari, Sakshi Guleria	344191-001	HEAT EXCHANGER STOVE	02-Jan-23
109	Monu Kumar, Sunil Kumar, Rajesh Kumar, Deepak Kumar	367038-001	APPARATUS FOR ARSENIC TEST	02-Jan-23
110	Harshit Gupta, Pawan.	367048-001	TOOTHBRUSH	02-Jan-23
111	Mihir Sharma	369053-001	WHEEL HOE	02-Jan-23
112	Amar Raj Singh Suri, Anil Kumar, Robin Thakur, Neeraj Chandel	307955	JET-IMPINGEMENT HEAT-EXCHANGERTUBE	29-Dec-22
113	Ritesh Verma, Ankush Chauhan	351664-001	FLOWER POT WITH ATTACHED WATER STORAGE TANK	26-Dec-22
114	Dr. Kamal Dev, Dr. Anuradha Sourirajan	366932-001	SOLAR PEDESTAL FAN	23-Dec-22
115	Dr. Kamal Dev, Mihir Sharma.	367047-001	MULTITOOLPLIER	23-Dec-22
116	Sushil Kumar, Akarsh Sharma, Himani Bhatti, Shivani Sharma, Sadhana Minj	332011-001	CORN-KERNEL SEPARATOR	22-Dec-22
117	Kamlesh, Dr. Radha, Ashok Pundir, Daljeet Singh	366074-001	FAN	22-Dec-22
118	Pramod Prakash, Abhinash.	366475-001	MANUAL STRING MUG	22-Dec-22
119	Pramod Prakash, Abhinash, Dr Ravinder Nath.	366464-001	FOLDABLE INSECT CATCHING NET	21-Dec-22
120	Ms. Nishtha Singh, Dr. Lalit Sharma, Dr. Aditi Sharma	352842-001	MULTI-COMPONENT BEHAVIOUR MODEL FOR STUDYING MEMORY AND SPATIAL LEARNING	16-Dec-22
121	Kamlesh, Dr. Radha, Neeraj Kumari, Ashok Pundir, Niharika Sharma,	354882-001	MULTIPLE DRAWERS CUPBOARD	16-Dec-22
122	Kamal Kashyap, Robin Thakur, Naresh Kumar,	340763-001	ELECTRICITY GENERATOR	09-Dec-22

	Sunil Kumar, Dr. Raj Kumar			
123	Apar Kaushik, Harshit Gupta	349116-001	RESILIENCE WHEEL	08-Dec-22
124	Sushil Kumar, Shubham Prakash, Himani Bhatti, Shivani Sharma, Sadhana Minj	330111-001	SCEPTRE	25-Nov-22
125	KULDEEP CHAND ROJHE, AMAR RAO, NEERAJ PIZAR, RAJKUMAR, Sorabh Aggarwal	327479-001	CARRIER FOR TWO WHEELER	18-Nov-22
126	Akarsh Sharma, Amar Raj Singh Suri	328650-001	CAR Wiper	11-Nov-22
127	Somesh Sharma, Md. Nausad, Ananya Dwiwedi, A.Deva Santhana Divyan	333482-001	BLANCHING, AIR DRYER AND WATER BATH CONIBO MACHINE	09-Nov-22
128	Deepak Pathania, Manita Thakur, Arush Sharma	2017110294 21	NANOCOMPOSITE FOR THE PHOTODEGRADATION OF WATER POLLUTING METHYL ORANGE	02-Nov-22
129	Pardeep Singh, Pankaj Raizada, Pooja Shandilya	1819/DEL/20 15	r NOVEL NANO GRAPHENE BASED COMPOSITE FOR WATER TREATMENT APPLICATION AND METHOD OF SYNTHESIS THEREOF	01-Nov-22
130	Ritika Rana, Harshit Gupta, Durgesh Upadhyay	364427-001	Capsule Bottle	18-Oct-22
131	Ankit Shukla, CHEF Nagendra Yadav, Vaibhav Verma, Pratip Mazumdar, Ishan Bakshi	366930-001	GLASS WITH SIPPER	17-Oct-22
132	Sushil Kumar, Sonia Kumari, Sakshi Guleria, Shubham Prakash, Rohit Kumar, Nikhil Sharma, Satyam Singh, Praveen Kumar,	339237-001	ADVANCED DISTILLATOR	09-Sep-22

133	Shashvat Sharma, Chhavi Grover, Vanshika Sharma, Yashika Sharma, Harsh Gandhi, Rohit Sharma, Sourav Banarjee, Prachi Bharadwaj, Mrs. Ashoo Koshla, Mr. Shard, Sushil Kumar, Sonia Kumari, Sakshi Guleria	341340-001	MODERN PLASTIC CRATE(KILTA)	29-Aug-22
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3.4.3 Number of Ph.D.'s awarded during the year

Sr. No.	Name of the PhD scholar	Name of the Department	Name of the guide	Title of the thesis	Year of registration of the scholar
1	Kanika Sharma	Faculty of Applied Sciences and Biotechnology	Dr. Somesh Sharma	Development and evaluation of wild pomegranate based antimicrobial nanoemulsion edible coating for enhancing the postharvest shelf life of tomatoes	2018-19
2	Harsh Kumar	Faculty of Applied Sciences and Biotechnology	Dr. Dinesh Kumar	Development of amperometric immunosensor for the detection of colistin antibiotic in chicken meat	2018-19
3	Shabnam Thakur	Faculty of Sciences	Dr. Amita	Green synthesis of nanoparticles using Populus ciliata bark/bud extracts and their evaluation for antimicrobial activity	2018-19
4	Rammah Yousef	Faculty of Engineering and Technology	Dr. Gaurav Gupta	Deep Learning Optimization Using U-Net-Based Architecture for Brain Tumor Detection and Segmentation from MRI Images	2020-21
5	Neeraj Pizar	Faculty of Liberal Arts and Ancient Indian Wisdom,	Dr. Manju Jaidka	Adaptations of Amleth: Hamlet and Its Variants	2020-21

6	Ravinder Kumar	Faculty of Engineering and Technology	Dr. Neeraj Gandotra	Generalized Uncertainty Information Measures on Pythagorean and Picture Fuzzy Sets with their Applications to Multi- Criteria Decision Making	2018-19
7	Neeraj	Faculty of Sciences	Dr. Joydeep Das	Synthesis of Green Carbon Dots from Plant Materials for Biomedical and Chemical Applications	2018-19
8	Vasudha Hasija	Faculty of Sciences	Dr. Pankaj Raizada	Co-doped graphitic carbon nitride heterostructures with superior photocatalytic efficiency for environment remediation	2018-19
9	Mehak Jamwal	Faculty of Sciences	Dr. Sunil Puri	Variations in phytochemicals of <i>Justicia adhatoda</i> L. growing wildly in different provenances of Western Himalaya	2018-19
10	Anirudh	Faculty of Sciences	Dr. Joydeep Das	Synthesis of Nitrogen, Sulfur co-doped carbon dots and their nanohybrid with ceria for chemical and biomedical applications	2018-19
11	Himani Pathania	Faculty of Sciences	Dr. Mamta Sharma	Evaluation of Nutrients and Growth Hormones Application on <i>Cassia tora</i> L. to Alleviate Drought Stress	2018-19
12	Sagar Dhakal	Faculty of Sciences	Dr. P K Khosla	Assessment of factors affecting the natural regeneration of <i>Taxus contorta</i> Griff	2019-20
13	Neelam Thakur	Faculty of Sciences	Dr. Joydeep Das	Synthesis of Ceriabased Nanomaterials for Potential Biomedical and Electrochemical Sensing Applications	2018-19
14	Parul Thakur	Faculty of Engineering and Technology	Dr. Neeraj Gandotra	Generalized Fuzzy Information Measure Under Intuitionistic and Pythagorean Fuzzy Environment and Their Applications In Multi-	2019-20

				Attribute Group Decision-Making	
15	Nitisha Sharma	Faculty of Engineering and Technology	Dr. MS Thakur	Strength Properties of Concrete by using Waste Marble Powder	2019-20
16	Ankita Upadhya	Faculty of Engineering and Technology	Dr. MS Thakur	Effect of Glass and Carbon Fibers on the Strength of modified Asphalt Concrete	2018-19
17	Sakshi Dhiman	Faculty of Sciences	Dr. Prerna Bhardwaj	Phytochemical and pharmacological evaluation of Holarrhena pubescens Wall, ex A.DC for Hemorrhoid disorder	2019-20
18	Neelam Chauhan	Faculty of Applied Sciences and Biotechnology	Dr. Nitika Thakur	Synthesis and Evaluation of chitosan-coated ZnO nanocomposites using Shiitake mushroom and silk sericin for their antibacterial and antioxidant potential	2018-19
19	Sonu	Faculty of Sciences	Dr. Pradeep Singh	Fabrication of copper ferritebased heterojunctions for efficient photodegradation of dyes in aqueous phase	2018-19
20	Vinit Sharma	Faculty of Sciences	Dr. Neeraj Gupta	Preparation of carbonbased catalysts for biomass conversion and electrochemical sensing of biomolecules	2018-19
21	Vishal Dutta	Faculty of Sciences	Dr. Pradeep Singh	Enhancing the photocatalytic activity of copper bismuth oxide mediaed heterojunctions for efficient photo-degradation of toxic dyes	2018-19
22	Rammani Adhikari	Faculty of Sciences	Dr. R P Dwivedi	Theory, Design, and Simulation of Plasmonic Sensors for different Chemicals and Gases	2019-20
23	Abhishek Singh	Faculty of Sciences	Dr. Joydeep Das	Fabrication of Nanomagnesia Based smart drug delivery system and	2018-19

				electrochemical biosensing platform	
24	Suraj Verma	Faculty of Management Sciences	Dr. Kuldeep Chand Rojhe	Alternative Evaluation and Decision Making Rules towards selected FMCG Products-Study of Rural Market in Himachal Pradesh	2017-18
25	Saloni Thakur	Faculty of Applied Sciences and Biotechnology	Dr. Rohit Sharma	Development of Chitosan and PEI-based carbon dots for efficient delivery of nucleic acids in mammalian cells	2017-18
26	Vivek Verma	Faculty of Applied Sciences and Biotechnology	Dr. Dinesh Kumar	Development of outer membrane protein based nanohybrid sensor for the diagnosis of leptospirosis	2018-19
27	Kanchan Bhardwaj	Faculty of Sciences	Dr. Sunil Puri	Nutritional, Phytochemical and Biological Properties of Pinus roxburghii and Pinus gerardiana Nuts Distributed in Himachal Pradesh, Western Himalayas	2018-19
28	Kirti Sharma	Faculty of Sciences	Dr. Pradeep Singh	Fabrication of heterogeneous photo-Fenton systems for efficient treatment of polluted water	2018-19
29	Temesgen Sulamo	Faculty of Management Sciences	Dr. Kuldeep Chand Rojhe	An Analysis of Graduate Outcome on Self-Employment: The case of Self-employed TVET Graduates in SNNP Regional States, Ethiopia	2019-20
30	Riya Bhattacharya	Faculty of Applied Sciences and Biotechnology	Dr. Debajyoti Bose	Characterization and Mechanism of Synergistic Combinations of Essential Oils and Antibiotics to Manage Candidiasis	2019-20
31	Rohit Kumar Nadda	Faculty of Sciences	Dr. Rohit Goyal	Phytochemical and Pharmacological evaluation of endangered medicinal plants: Saussurea costus and	2017-18

				Zanthoxylum armatum from Western Himalaya	
32	Sheetal Sharma	Faculty of Sciences	Dr. Pradeep Singh	Fabrication of CQDs mediated MnIn ₂ S ₄ heterojunctions for pollutant degradation and bacterial disinfection	2018-19
33	Sohan Lal	Faculty of Sciences	Dr. Amita Kumari	Evaluation of Natural variations in Myrica esculenta Buch.-Ham. ex D. Don from Himachal Pradesh	2017-18
34	Jyoti Dhatwalia	Faculty of Sciences	Dr. Amita Kumari	Evaluation of the nutraceutical value of Rubus ellipticus Smith fruits and Biological activity enhancement of extract by the addition of metal salts	2017-18
35	Priyanka Chauhan	Faculty of Sciences	Dr. Mamta Sharma	Alleviation of Drought Stress by application of Nutrients and Growth Hormones on major legumes of Himalaya	2017-18
36	Shalini Sharma	Faculty of Sciences	Dr. Sunil Puri	Seasonal and altitudinal fodder quality assessment of Quercus species in the North-West Himalaya	2017-18
37	Gaurav Sharma	Faculty of Applied Sciences and Biotechnology	Dr. Nitika Thakur	In-vitro application of antifungal formulations against Alternaria alternata in important cash crops of Solan (Himachal Pradesh)	2017-18
38	Rahul Kalia	Faculty of Sciences	Dr. Rajesh Kumar	Study on impact of doping on structural and magnetic properties of (CoFe ₂ O ₄) spinel ferrite	2017-18
39	Brij Bhushan	Faculty of Engineering and Technology	Dr. Pankaj Vaidya	Design and Implementation of IoT Devices in Agriculture to enhance food & farming Technologies	2019-20
40	Garima Rana	Faculty of Sciences	Dr. Pooja Dhiman	Magnetically recoverable Ni-Zn nano-ferrites and their composites for environmental applications	2019-20

41	Yogesh Kumar	Faculty of Sciences	Dr. Pradeep Singh	Fabrication of ZnIn ₂ S ₄ based heterostructures for water purification	2019-20
42	Mamta Devi Sharma	Faculty of Applied Sciences and Biotechnology	Dr. Saurabh Kulshreshtha	Microbial population analysis and their susceptibility studies from water resources of Solan and nearby areas	2018-19
43	Anurag Rana	Faculty of Engineering and Technology	Dr. Pankaj Vaidya	Estimation of Earthquake Seismicity to Predict Impending Earthquake using Neuro Fuzzy Expert System	2020-21
44	Disha	Faculty of Sciences	Dr. Rachna Verma	Phytochemical and Biological Properties of Important Ethnomedicinal Plants Used for Jaundice Treatment in District Solan, Himachal Pradesh	2019-20

3.4.4 Number of research papers per teacher in the Journals notified on UGC website during the year: 680

Sr. No.	Title of paper	Name of the author/s	Name of journal
1	Exploring the potential of CRISPR/Cas genome editing for vegetable crop improvement: An overview of challenges and approaches	Das, T. Anand, U. Pal, T. Mandal, S. Kumar, M. Radha Gopalakrishnan, A.V. Lastra, J.M.P.D.L. Dey, A.	Biotechnology and Bioengineering
2	Overview of the advances in plant microbial fuel cell technology for sustainable energy recovery from rhizodeposition	Bhattacharya, R. Parthasarthy, V. Bose, D. Gulia, K. Srivastava, S. Roshan, K.R. Shankar, R.	Biotechnology and Bioengineering
3	An insight into biosensing platforms used for the diagnosis of various lung diseases: A review	Sharma, A. James, A. Kapoor, D.N. Kaurav, H. Sharma, A.K. Nagraik, R.	Biotechnology and Bioengineering

4	Synthesis, Biological Evaluation and in Silico Study of N-(2- and 3-Pyridinyl)benzamide Derivatives as Quorum Sensing Inhibitors against <i>Pseudomonas aeruginosa</i>	Sharma, N. Srivastava, N. Devi, B. Kumar, L. Kumar, R. Kumar Yadav, A.	Chemistry and Biodiversity
5	Exploring the Chemical and Biological Potential of Jamun (<i>Syzygium cumini</i> (L.) Skeels) Leaves: A Comprehensive Review	Kumari, N. Kumar, M. Chaudhary, N. Zhang, B. Radha Chandran, D. Joshi, S. Singh, D. Dey, A. Rajalingam, S. Natarajan, K. Muthukumar, M. Mohankumar, P. Sheri, V. Dhumal, S. Lorenzo, J.M.	Chemistry and Biodiversity
6	Synthesis, in Silico Study and Biological Evaluation of N-(Benzothiazol/Thiazol-2-yl)benzamide Derivatives as Quorum Sensing Inhibitors against <i>Pseudomonas aeruginosa</i>	Sharma, N. Srivastava, N. Kaushal, A. Das, B. Vashistha, A. Kumar, L. Kumar, R. Kumar Yadav, A.	Chemistry and Biodiversity
7	Chemical Diversity and Medicinal Potential of <i>Vitex negundo</i> L.: From Traditional Knowledge to Modern Clinical Trials	Sharma, D. Radha Kumar, M. Andrade- Cetto, A. Puri, S. Kumar, A. Thakur, M. Chandran, D. Pundir, A. Prakash, S. Pandiselvam, R. Sandhu, S. Khosla, A. Kumar, S. Lorenzo, J.M.	Chemistry and Biodiversity
8	Molecular links between metabolome and epigenome: AMPK-TET2 signalling pathway and their natural activators	Patil, S.S. Sharma, R. Sharma, U. Padwad, Y.	Chemical Biology Letters
9	Recent advances in nanostructured metal chalcogenides for energy conversion and storage	Thakur, N. Kumar, P. Ibrahim, A. Sharda, S. Sharma, P.	Journal of Optoelectronics and Advanced Materials
10	ZnO Nanoparticles Synthesis using Potato Peel Waste and their Antifungal Activity	Dulta, K. Aman, J. Kamran, M. Trehan, A. Sharma, K.	Malaysian Journal of Chemistry

		Kulwanshi, S. Kumari, S. Chauhan, P.K.	
11	Biomedical potential of hydrothermally synthesized zinc oxide nanoparticles for antifungal evaluation and cytotoxicity analysis	Guleria, G. Kumar, S. Thakur, S. Sharma, D.K. Thakur, S. Kalia, S. Shandilya, M.	Applied Organometallic Chemistry
12	Uninterrupted real-time cerebral stress level monitoring using wearable biosensors: A review	Mishra, A. Agrawal, M. Ali, A. Garg, P.	Biotechnology and Applied Biochemistry
13	Plant seed extract assisted, eco-synthesized C-ZnO nanoparticles: Characterization, chromium(VI) ion adsorption and kinetic studies	Rao, S. Sowmyashree, A.S. Jayaprakash, G.K. Swamy, M.M. Swamynathan, K. Kumar, D.	Luminescence
14	In vitro antidiabetic, antioxidant, antimicrobial, and cytotoxic activity of <i>Murraya koenigii</i> leaf extract intercedes ZnO nanoparticles	Sharma, A. Nagraik, R. Venkidasamy, B. Khan, A. Dulta, K. Kumar Chauhan, P. Kumar, D. Shin, D.-S.	Luminescence
15	Insight of smart biosensors for COVID-19: A review	Tomichan, R. Sharma, A. Akash, K. Siddiqui, A.A. Dubey, A. Upadhyay, T.K. Kumar, D. Pandey, S. Nagraik, R.	Luminescence
16	Exploring the therapeutic potential of naturally occurring piceatannol in non-communicable diseases	Gandhi, H. Mahant, S. Sharma, A.K. Kumar, D. Dua, K. Chellappan, D.K. Singh, S.K. Gupta, G. Aljabali, A.A.A. Tambuwala, M.M. Kapoor, D.N.	BioFactors
17	Recent Development in Urban Polyhydroxyalkanoates Biorefineries	Kaur, P. Bhola, S. Kumar, P. Kumar, V. Kulshreshtha, S. Sharma, A.	ChemBioEng Reviews

		Park, S. Choi, K.-Y.	
18	On the Manufacturers of Biosimilars in Asia	Sheth, S. Vashishta, L. Goyal, R. Rathore, A. Chirmule, N.	Clinical Pharmacology and Therapeutics
19	Energy and water: COVID-19 impacts and implications for interconnected sustainable development goals	Bhattacharya, R. Bose, D.	Environmental Progress and Sustainable Energy
20	A review of the sustainable development goals to make headways through the COVID-19 pandemic era	Bhattacharya, R. Bose, D.	Environmental Progress and Sustainable Energy
21	Gamma-sterilized cow-dung for confiscation of triphenylmethane dyes from water bodies	Vithalkar, S. Jugade, R. Bambal, A. Pakade, Y. Pandey, S.	Environmental Progress and Sustainable Energy
22	Impact of antimicrobial resistance on sustainable development goals and the integrated strategies for meeting environmental and socio-economic targets	Bhattacharya, R. Bose, D. Gulia, K. Jaiswal, A.	Environmental Progress and Sustainable Energy
23	Effect of malting on physicochemical, antioxidant, and microstructural properties of finger millet (<i>Eleusine coracana</i>) flours	Murungweni, K.T. Ramashia, S.E. Mashau, M.E.	Food Science and Nutrition
24	A novel hybrid artificial neural network technique for the early skin cancer diagnosis using color space conversions of original images	Tajjour, S. Garg, S. Chandel, S.S. Sharma, D.	International Journal of Imaging Systems and Technology
25	Evaluation of an empirical equation to compute the nonlinearity parameter of a root water uptake model	Kumar, N. Poddar, A. Shankar, V.	Irrigation and Drainage
26	The assessment of e-HRM tools and its impact on HRM system effectiveness and organizational effectiveness: An empirical study of selected multinational companies in Ghana	William, A.-A. Singh, K.	Electronic Journal of Information Systems in Developing Countries
27	Metabolomics of natural samples: A tutorial review on the latest technologies	Eshawu, A.B. Ghalsasi, V.V.	Journal of Separation Science
28	Metal-based nanomaterials and nanocomposites as promising frontier in cancer chemotherapy	Kumar, S. Shukla, M.K. Sharma, A.K. Jayaprakash, G.K. Tonk, R.K. Chellappan, D.K. Singh, S.K. Dua, K. Ahmed, F. Bhattacharyya, S. Kumar, D.	MedComm
29	Designing of smart nanogels based on tragacanth gum for cisplatin delivery	Verma, C. Pathania, D. Negi, P. Gupta,	Polymer International

		P.K. Verma, R.S. Gupta, B.	
30	The impact of Ag/Co nanocomposite on organic charge transport medium for improved photocurrent in polymer solar cell	Ike, J.N. Jili, N. Kumar, A. Sharma, G. Mola, G.T.	Journal of Polymer Science
31	TCT-Mediated Process for the Preparation of Nafamostat Mesylate and Camostat Mesylate	Ahmed, R. Kumar, G. Mahajan, S. Verma, P.K. Singh Cham, P. Reddy, D.S. Shankar, R. Singh, P.P.	ChemistrySelect
32	Impact of Various Modification Methods on Physicochemical and Functional Properties of Starch: A Review	Sinhmar, A. Pathera, A.K. Sharma, S. Nehra, M. Thory, R. Nain, V.	Starch/Staerke
33	Acid Hydrolyzed Pearl Millet Starch Nanoparticles: Synthesis and Characterization	Chavan, P. Sinhmar, A. Thory, R. Sharma, S. Sukhija, S. Singh, G.P. Aayush, K. Singh, J. Kumar, D.	Starch/Staerke
34	Differential distribution of macroinvertebrate associated with water quality	Thakur, Y. Grover, A. Sinha, R.	World Water Policy
35	Search for heavy resonances and quantum black holes in $e\mu$, $e\tau$, and $\mu\tau$ final states in proton-proton collisions at $\sqrt{s} = 13$ TeV	Tumasyan, A et al.	Journal of High Energy Physics
36	Search for CP violation using (Formula presented.) events in the lepton+jets channel in pp collisions at $\sqrt{s} = 13$ TeV	Tumasyan, A et al.	Journal of High Energy Physics
37	Search for CP violating top quark couplings in pp collisions at $\sqrt{s} = 13$ TeV	Tumasyan, A et al.	Journal of High Energy Physics
38	Unravelling the pharmacological properties of cryptolepine and its derivatives: a mini-review insight	Tudu, C.K. Bandyopadhyay, A. Kumar, M. Radha Das, T. Nandy, S. Ghorai, M. Gopalakrishnan, A.V. Proćków, J. Dey, A.	Naunyn- Schmiedeberg's Archives of Pharmacology
39	Revisiting the therapeutic potential of gingerols against different pharmacological activities	Sharma, S. Shukla, M.K. Sharma, K.C. Tirath Kumar, L. Anal, J.M.H. Upadhyay, S.K.	Naunyn- Schmiedeberg's Archives of Pharmacology

		Bhattacharyya, S. Kumar, D.	
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56	An effective room temperature nuclear iodination of aromatic compounds using molecular iodine and ammonium acetate	Gopireddy, S.R. Sebastian, S. Gupta, M.K. Kumar, D. Chandrasekhar, K.B.	Monatshefte fur Chemie
57	Activation of nanoparticles of nickel ferrite by divalent metal ions co-doping for the methyl orange dye's photocatalytic degradation: a kinetic and adsorption isotherm study	Kumari, S. Kumari, A. Kandwal, A. Ahmed, J. Alshehri, S.M. Jasrotia, R. Sharma, R.	Clean Technologies and Environmental Policy
58	Host-mediated gene engineering and microbiome-based technology optimization for sustainable agriculture and environment	Thakur, N. Nigam, M. Mann, N.A. Gupta, S. Hussain, C.M. Shukla, S.K. Shah, A.A. Casini, R. Elansary, H.O. Khan, S.A.	Functional and Integrative Genomics
59	Synergistic soil-less medium for enhanced yield of crops: a step towards incorporating genomic tools for attaining net zero hunger	Thakur, N. Nigam, M. Awasthi, G. Shukla, A. Shah, A.A. Negi, N. Khan, S.A. Casini, R. Elansary, H.O.	Functional and Integrative Genomics
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66	Molecular systematics and its role in cultivated Solanum spp. evolution	Rachappanavar, V.	Genetic Resources and Crop Evolution
67	Assessment and suitability of DUS traits to screen potato (Solanum tuberosum L.) genotypes for Phytophthora spp. infection resistance by using phenotypic and molecular (S) markers	Rachappanavar, V. Kumar, M. Kumar, V. Dalamu Gupta, S.K.	Genetic Resources and Crop Evolution
68	Generation mean analysis of quantitative traits in eggplant (Solanum melongena L.) utilizing diverse parents under high rainfall areas of Northwestern Himalayas	Sharma, S. Katoch, V.	Genetic Resources and Crop Evolution
69	Cross-transferability of Rubus ellipticus EST-S markers for genetic diversity analysis of peach (Prunus persica)	Sharma, S. Kaur, R. Kumar, K. Sagar, H.	Genetic Resources and Crop Evolution
70	Potential of wild, underutilized Actinidia callosa and Actinidia strigosa from Northeast India for kiwifruit breeding	Padhan, A. Kumar, A. Pathirana, R. Sharma, D.P. Thakur, D.S. Rana, V.S.	Genetic Resources and Crop Evolution

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72	Insights into the molecular mechanisms of uptake, phytohormone interactions and stress alleviation by silicon: a beneficial but non-essential nutrient for plants	Thakur, A. Singh, A. Tandon, A. Sharma, V.	Plant Growth Regulation
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102	Antioxidant, antimicrobial, and cytotoxic potential of <i>Euphorbia royleana</i> extract-mediated silver and copper oxide nanoparticles	Kumari, A. Naveen Dhatwalia, J. Thakur, S. Radhakrishnan, A. Chauhan, A. Chandan, G. Choi, B.H. Neetika Nidhi	Chemical Papers
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118	Exploring genetic diversity and ascertaining genetic loci associated with important fruit quality traits in apple (<i>Malus × domestica</i> Borkh.)	Poonam Sharma, R. Sharma, P. Sharma, N.C. Kumar, K. Singh, K.N. Bhardwaj, V. Negi, N. Chauhan, N.	Physiology and Molecular Biology of Plants
119	Physicochemical Assessment, Characterization, Antioxidant and Antimicrobial Potential Study of Essential Oil Extracted from the Peel of Different Galgal (<i>Citrus Pseudolimon</i>) Cultivars	Grover, S. Aggarwal, P. Kaur, S. Yadav, R. Kumar, A.	Waste and Biomass Valorization
120	Bio-synthesis of Lead Oxide Nanoparticles Using Chinese Mahogany Plant Extract (CMPE@LO) for Photocatalytic and Antimicrobial Activities	Thakur, M. Sharma, A. Kumar, A. Gautam, M. Kumari, S.	BioNanoScience
121	Fabrication of a Z-scheme Zn ₃ V ₂ O ₈ /g-C ₃ N ₄ nano-heterojunction with high interfacial charge transfer for superior photocatalytic removal of diazinon pesticide under visible light	Thakur, P.R. Sharma, S. Kumar, A. Sharma, G. Ghfar, A.A. Naushad, M. Stadler, F.J.	Applied Nanoscience (Switzerland)
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128	Sustainable utilization and valorization of potato waste: state of the art, challenges, and perspectives	Khanal, S. Karimi, K. Majumdar, S. Kumar, V. Verma, R. Bhatia, S.K. Kuca, K. Esteban, J. Kumar, D.	Biomass Conversion and Biorefinery
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130	Microbial-based conversion of food waste for sustainable bioremediation and utilization as compost	Hamid, B. Yattoo, A.M. Sayyed, R.Z. Dineshkumar, R. Al-Khayri, J.M. Bashir, Z.	Biomass Conversion and Biorefinery

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185	Recent analytical techniques, and potential eco-toxicological impacts of textile fibrous microplastics (FMPs) and associated contaminants: A review	Yadav, S. Kataria, N. Khyalia, P. Rose, P.K. Mukherjee, S. Sabherwal, H. Chai, W.S. Rajendran, S. Jiang, J.-J. Khoo, K.S.	Chemosphere
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190	Bio-oil and biochar production from <i>Ageratum conyzoides</i> using triple-stage hydrothermal liquefaction and utilization of biochar in removal of multiple heavy metals from water	Verma, M. Lee, I. Pandey, S. Nanda, M. Kumar, V. Chauhan, P.K. Kumar, S. Vlaskin, M.S. Kim, H.	Chemosphere
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641	African edible insects as human food – a comprehensive review	Siddiqui, S.A. Aidoo, O.F. Ghisletta, M. Osei-Owusu, J. Saraswati, Y.R. Bhardwaj, K. Khalid, W. Fernando, I. Golik, A.B. Nagdalian, A.A. Lorenzo, J.M. De Palo, P. Maggiolino, A.	Journal of Insects as Food and Feed
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643	Neoteric chemical transformation involving gold based photocatalysis	Srivastava, V. Sinha, S. Kumar, D. Singh, P.P.	Tetrahedron Green Chem
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648	Search for the exotic decay of the Higgs boson into two light pseudoscalars with four photons in the final state in proton-proton collisions at $\sqrt{s} = 13$ TeV	Tumasyan, A. et al.	Journal of High Energy Physics
649	Measurements of Higgs boson production in the decay channel with a pair of τ leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV	Tumasyan, A. et al.	European Physical Journal C
650	Search for light Higgs bosons from supersymmetric cascade decays in pp collisions at $\sqrt{s} = 13$ TeV	Tumasyan, A. et al.	European Physical Journal C
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652	Call for the responsible artificial intelligence in the healthcare	Upadhyay, U. Gradisek, A. Iqbal, U. Dhar, E. Li, Y.-C. Syed-Abdul, S.	BMJ Health and Care Informatics

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659	Environmental Policy Influencing the Contribution of Non-Timber Forest Products to Rural Livelihoods: Case Studies from Himachal Pradesh, India	Thapa A., Singh K.	IOP Conference Series: Earth and Environmental Science
660	The ICS vs. the ICSID system: a possible compromise in the light of the sustainable development	Alkhayer J., Gupta N., Gupta C.M.	IOP Conference Series: Earth and Environmental Science
661	NTFP Contribution in Livelihood of Rural Area of Western Himalayan Region of Himachal Pradesh	Thapa A., Singh K.	IOP Conference Series: Earth and Environmental Science
662	Machine learning algorithms for evaluating concrete strength using marble powder	Sharma N., Thakur M.S., Upadhya A., Sihag P.	IOP Conference Series: Earth and Environmental Science
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664	Use of wood sawdust ash as effective raw material for clay bricks	Mehta V., Mondal S., Kumar N., Kumar S.	IOP Conference Series: Earth and Environmental Science

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666	A Comparison of Single and Multiple Jets in Terms of Aeration Efficiency	Puri D., Sihag P., Kumar R.	IOP Conference Series: Earth and Environmental Science
667	Digital Copyright Law, A Comparative Study of the Limitation and Exceptions Relating To Education	Kumar, M; Sharma, N; Devi, M	JOURNAL OF WORLD INTELLECTUAL PROPERTY
668	Bilosomes in brain drug delivery	Kaurav, H; Kapoor, DN; Upadhyay, NK	THERAPEUTIC DELIVERY
669	PLANTS DERIVED EFFLUX PUMP INHIBITORS: AN APPROACH AGAINST MULTIDRUG-RESISTANT GRAM-NEGATIVE BACTERIA	Rana, T; Farooq, U; Kaur, N; Khan, A; Khan, A	PHARMACOPHORE
670	A comprehensive review on phytochemistry, health benefits and therapeutic potential of Rhododendron arboreum Sm.	Kaur, R; Gupta, S; Dhyani, K; Chauhan, M; Kaur, S; Puri, S	ANNALS OF PHYTOMEDICINE-AN INTERNATIONAL JOURNAL
671	Effective adsorptive removal of a cationic dye from aqueous solutions using a biosorbent derived from Sargassum sp.	da Gama, BMV; Silanpää, M; Selvasembian, R; Silva, CED; Meili, L	WATER PRACTICE AND TECHNOLOGY
672	Recent updates on g-C3N4/ZnO-based binary and ternary heterojunction photocatalysts toward environmental remediation and energy conversion	Rana, P; Dhull, P; Sudhaik, A; Chawla, A; Nguyen, VH; Kaya, S; Ahamad, T; Singh, P; Hussain, CM; Raizada, P	NANOFABRICATION
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674	Recent Updates on Metal-Polymer Nanocomposites in 3D Bioprinting for Tissue Engineering Applications	Flora, B; Kumar, R; Mahdieh, R; Zarei, K; Chehrazi, S; Kaur, SD; Sharma, A; Mohapatra, P; Sakshi, A; Singh,	NANOFABRICATION

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675	A Study of Glass and Carbon fibers in FRAC utilizing Machine Learning Approach	Ankita Upadhya, M.S. Thakur and others	Advances in Materials Research, An International Journal"
676	Identification of the impact of knowledge management on project duration through multi-making decision steps	Teshale Alemu, MS Thakur	Russian Law Journal
677	Influence of Modified Atmospheric Packaging on Shelf-Life and Quality of Naturally Grown Tomato (<i>Solanum lycopersicum</i> L.) Stored Under Different Conditions	Rakesh Sharma, Sunakshi Gautam, Subhash Chander Verma, Gaurav Sood, Narender Kumar Bharat, Kuldeep Singh Thakur, Ashu Chandel, Upender Singh Thakur, Rohit Bishist, Subhash Sharma, Pramod Kumar, Rajeshwar Singh Chandel	Brazilian Archives of Biology and Technology
678	Optimization of pre-drying treatment and drying mode for reducing browning to produce shelf stable fructooligosaccharide rich yacon (Ground Apple) powder	Rakhi Gangtaa, N.S. Thakur, Hamid, Sunakshi Gautam, Abhimanyu Thakur	South African Journal of Botany
679	Gamma-sterilized cow-dung for confiscation of triphenylmethane dyes from water bodies	Sarika Vithalkar, Ravin Jugade, Apurva Bambal, Yogesh Pakade, Sadanand Pandey*	Environmental Progress & Sustainable Energy
680	Unveiling the Potential of Marine Biopolymers: Sources, Classification, and Diverse Food Applications	Ipsheta Bose, Nousheen, Swarup Roy, Pallvi Yaduvanshi, Somesh Sharma, Vinay Chandel, Deblina Biswas	Materials

3.4.5 Books and chapters in edited volumes published: 199

Sr. No.	Name of the teacher	Title of the book published	Title of the Chapter Published	ISBN/ISSN number of the proceeding	Name of the publisher
1	Thakur N., Kumar P., Sharma P.	NA	Two-Dimensional Inorganic Materials for Energy Storage Applications	9780841297081	American Chemical Society
2	Rani V., Verma M.L.	NA	Current Advancement in Disposable Sensors for Industrial Applications	9780841297227	American Chemical Society
3	Alberto García-Peñas, Gaurav Sharma	New Materials for a Circular Economy	NA	9781644902639	Materials Research Forum LLC
4	Gaurav Saxena , Kamlesh Thakur , Selamu Duguna , Karan Saini , Sibiraj Murugesan , Himani Chandel and Saurabh Kulshrestha	NA	Microbial laccases: the blue enzyme for bioremediation of contaminants and recalcitrant wastewaters	9783111062235	Walter de Gruyter GmbH
5	Navreet Sahi	Trickster or Hero: A Cross-Cultural Analysis of the Picaro	NA	9789356216440	Orange Books Publication
6	Rozy Dhanta, Marizvikuru Mwale	NA	Transforming Agriculture with Modern AI: Harnessing Artificial Intelligence to Revolutionize Farming	9798369319024	IGI Global
7	Geetansh Sharma, Kirti Shyam, Saurabh Thakur, Manu Yadav, Saransh Nair, Navneet Kumar, Himani Chandel, Gaurav Saxena	NA	Metagenomic Characterization and Applications of Microbial Surfactants in Remediation of Potentially Toxic Heavy Metals for Environmental Safety: Recent Advances and Challenges	978-1-119-85210-0	Wiley
8	Kirti Shyam, Navneet Kumar, Himani Chandel,	NA	Omics Technologies in Environmental Microbiology and	978-1-119-85210-0	Wiley

	Abhinav Singh Dogra, Geetansh Sharma, Gaurav Saxena		Microbial Ecology: Insightful Applications in Bioremediation Research		
9	Rohit Jasrotia, Suman, Ankit Verma, Sachin Kumar Godara, Shubham Sharma, Kirti, Rahul Kalia Pooja Puri and Gagan Kumar	NA	Hard Ferrites for Permanent Magnets	978-1- 64490-231- 8	Materials Research Forum LLC
10	Garima Rana, Pooja Dhiman, Rahul Kalia, Ankush Chauhan, RiteshVerma, Rajesh Kumar	NA	Recent Advances in Processing of Hard Ferrites	978-1- 64490-231- 8	Materials Research Forum LLC
11	Rohit Jasrotia, Suman, Ankit Verma, Rahul Kalia, Himanshi, Rajat Kaushal, Jyoti Prakash, Sachin Kumar Godara and Pooja Puri	NA	An Overview of Hard Ferrites: Types and Structures	978-1- 64490-231- 8	Materials Research Forum LLC
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13	Sharma R., Mandyal P., Sambyal S., Fang B., Kumar V., Gholami P., Priye A., Shandilya P.	NA	Fundamentals and functional mechanisms of photocatalysis in water treatment	978- 111985534- 7	Wiley Blackwell
14	Zahra S.R., Saleem T.J., Sonia	NA	Demystifying Cyber terrorism: Causes, Costs & its impact on individuals' psyche and public confidence	978- 166549382- 6	Institute of Electrical and Electronics Engineers Inc.
15	Igbe T., Samuel O.W., Li J., Kulwa F.,	NA	Inspection of EEG Signals for Noninvasive Blood	978- 166549384- 0	Institute of Electrical and

	Kandwal A., Nie Z.		Glucose Monitoring in Prediabetes Diagnosis		Electronics Engineers Inc.
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92	Williams M.	NA	DEROZIO, HENRY LOUIS VIVIAN (1809- 1831)	978100093 3154; 978103224 5577	Taylor and Francis
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98	Dadhwal K.S.	NA	VARMA, PAVAN K. (1953-)	978100093 3154; 978103224 5577	Taylor and Francis
99	Sharma H.K.	NA	DUTT, TORU (1856- 1877)	978100093 3154; 978103224 5577	Taylor and Francis
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104	Akhoon M.A.	NA	MENEZES, ARMANDO (1902-	978100093 3154;	Taylor and Francis

			1983)	978103224 5577	
105	Sharma S.	NA	VERMA, MONA (1970-)	978100093 3154; 978103224 5577	Taylor and Francis
106	Almay E.	NA	SESHADRI, VIJAY (1954-)	978100093 3154; 978103224 5577	Taylor and Francis
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114	Jaidka M., Dhar T.N.	THE ROUTLEDGE ENCYCLOPE DIA OF INDIAN WRITING IN ENGLISH	NA	978100093 3154; 978103224 5577	Taylor and Francis
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	K.M.		Knowledge on Natural Resource Use Pattern for Self-Sustenance: A Case Study of Pangwals, Western Himalaya	9783031168390	al Publishing
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131	Sharma D., Sharma V., Kaur G.	NA	Status of Safety Concerns of Microplastic Detection Strategies	9789811978340; 9789811978333	Springer Nature
132	Jha A., Dutta V., Dhawan S., Singh K., Thakur P., Mukherjee G.	NA	Recent advances in the biochemistry and molecular biology of ammonia-oxidizing bacteria	9789819934591; 9789819934584	Springer Nature
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	Anh Q.N., Dutt Sharma Y., Jasrotia R., Hoang Long P.N., Liu L.W.Y.		Auricularia Fungus' Ability to Absorb Harmful Ionizing Radiations	7	and Electronics Engineers Inc.
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152	Dayal G., Verma P., Sehgal S.	NA	A comprehensive review on the integration of artificial intelligence in the field of education	979836931 9031; 979836931 9024	IGI Global
153	Sharma P., Dhanta R., Sharma A.	NA	Emotional intelligence and conflict resolution in the workplace	979836931 9031; 979836931 9024	IGI Global
154	Salihy H., Sharma D.	NA	The impact of emotional intelligence on employee retention: A conceptual approach from the lens of	979836931 9031; 979836931 9024	IGI Global

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158	Kumar R., Sudhaik A., Raizada P., Thakur S.	NA	Photocatalytic inactivation of harmful algae and bacteria in water	978032395 9537; 978032395 9544	Elsevier
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161	Batra B., Gangwar H., Poonia A.K., Gahlaut V.	NA	Applications of CRISPR/Cas in plants	978044318 4444; 978044318 4451	Elsevier
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175	Prakash Chand	NA	Samkaleen Hindi Kavita : Vartmaan Samajik Pridreshy	978-93- 89140-29-3	Prakashan Sansthan
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182	Prof. YS Negi, Prof. Dinesh Kumar, Prof. Somesh Sharma, Dr. Ratika Kayastha	NA	Goal 2: Zero Hunger	-	Associatio n of Indian Universitie s
183	Prof. Deepak Kapoor, Dr. Subodh Saurabh Singh, Dr. Arun Parashar, Dr. Rohit Chobe, Dr.	NA	Goal 3: Good Health and Well-being	-	Associatio n of Indian Universitie s

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187	Prof. Shyam Singh Chandel, Mr. Rahul Chandel	NA	Goal 7: Affordable and Clean Energy	-	Association of Indian Universities
188	Prof. Devesh Kumar, Dr. Kamal Kant Vashisth, Ms. Swati Jogi	NA	Goal 8: Decent Work and Economic Growth	-	Association of Indian Universities
189	Prof. Kamal Dev, Mr. Mihir Sharma, Mr. Pawan Thakur, Mr. Himanshu Sharma, Mr. Sorabh Aggarwal, Mr. Apar Kaushik, Dr. Pooja Shandilya, Mr. Rishabh Shyam, Dr. Kamal Kant Vashisth	NA	Goal 9: Industry, Innovation and Infrastructure	-	Association of Indian Universities
190	Prof. Kuldeep Chand Rojhe,	NA	Goal 10: Reduced Inequality	-	Association of Indian

	Dr. Amar Rao, Dr. Vinay Negi, Mr. Suraj Verma				Universities
191	Prof. Shyam Singh Chandel, Mr. Rahul Chandel	NA	Goal 11: Sustainable Cities and Communities	-	Association of Indian Universities
192	Dr. Mamta Shandilya, Ms. Gun Anit Kaur, Prof. Mohinder Singh Thakur	NA	Goal 12: Responsible Consumption and Production	-	Association of Indian Universities
193	Prof. Shyam Singh Chandel, Mr. Rahul Chandel, Prof. Atul Khosla, Mr. Amit Khanna	NA	Goal 13: Climate Action	-	Association of Indian Universities
194	Prof. Anuradha Sourirajan, Dr. Pradeep Kumar, Ms. Ishita Chanana	NA	Goal 14: Life Below Water	-	Association of Indian Universities
195	Dr. Mamta Sharma, Dr. Amita Kumari, Ms. Dipika Rana, Dr. Ritesh Banerjee	NA	Goal 15: Life on Land	-	Association of Indian Universities
196	Prof. Nandan Sharma, Dr. Renupal Sood, Dr. Pushpanjali Sood	NA	Goal 16: Peace, Justice and Strong Institutions	-	Association of Indian Universities
197	Dr. Mamta Shandilya, Ms. Gun Anit Kaur, Dr. Supriya Srivastava	NA	Goal 17: Partnerships for the Goal	-	Association of Indian Universities
198	Sachin Kumar, Avesh Choubey, Anuj Sharma, Amey Jedhe, Kalash Pandey, Aman Prakash & Azhar Khan	NA	Influence of the Gut Microbiome on Cardiovascular Health and Hypertension		
199	Sachin Kumar, Amey Jedhe, Avesh Choubey, Kalash Pandey & Azhar Khan	NA	Emerging Technologies to Investigate the Potential of Gut Microbiota in Human Health		

3.4.6 E-content is developed by teachers : 638 modules developed by Faculty from Different Schools

3.5 Consultancy

University has a proper policy backed by statutes to enable its faculty to provide consultancy.

The concerned company can approach the faculty concerned either directly or through the Dean or by writing to the Vice Chancellor. While requesting for consultation they give a detailed statement of the problem and what they are looking for. The same is then put up to the Vice Chancellor who gives his assent to the faculty, after assuring himself with the ability of the faculty to be in a position to provide reasonable solutions. Vice Chancellor takes into account all related factors such as the compatibility of the activity with the responsibilities and commitments of the faculty, potential conflicts of interest and the use of University resources. There are two types of consultancies provided by the University – research related, and non-research related. A faculty member or a team provides research support as a consultancy assignment in return for a research fee from an external funder. A Research Consultancy may be the outcome of a tender or a direct approach by an external agency or industry. Non-research Consultancies include non-research activities performed under contract for a third party.

3.5.1 Revenue generated from consultancy and corporate training during the year (INR in Lakhs) : ₹ 2,79,58,514

Sr. No.	Name of the consultant	Name of consultancy project	Consulting/Sponsoring agency with contact details	Revenue generated (INR in Lakhs)
1	Dr. Saurabh Kulshrestha	Development of method/filter to purify salon wastewater using Moringa oleifera seeds	Henkel AG & Co.	₹ 9,58,514
2	Dr. Dinesh Kumar	Research in Nanotechnology for Environmental Detoxification, Clean Energy Production, and Waste Utilization	Grant Vardhman Textiles Ltd.	₹ 2,70,00,000

3.6 Extension Activities

Shoolini University's commitment to social engagement and community development focuses on impactful extension activities that enhance health and well-being, environmental conservation, education, and social awareness. These initiatives cultivate a culture of empathy, social responsibility, and holistic development among students. Here are four notable case studies from the past five years that highlight the university's efforts and achievements:

Case Study 1: Cancer Detection and Awareness in Communities

Shoolini University, in collaboration with organizations such as Yuvraj Singh's Cancer Foundation YouWeCan, Earthjust, Red Ribbon Club, and Cardiac Max Hospital, has been actively involved in cancer awareness and early detection. Camps for breast, cervical, and oral cancers have provided thousands of individuals with free check-ups and essential information. By ensuring student participation and engagement in these programs, the university has instilled in them a deep sense of social responsibility and an understanding of community health challenges.

Case Study 2: Anti -Smoking and Anti- Drug Abuse campaigns for Students

Addressing the growing issue of drug and tobacco abuse, Shoolini University has launched several campaigns to combat this social problem. These initiatives include street plays, counselling sessions, and student-led interactions that have reached hundreds of youths and adults. The campaigns have not only raised awareness but have also empowered students to take a strong stance against substance abuse, fostering a proactive and informed community.

Case Study 3: Environmental Sustainability - Plantation Drives and Swachh

Bharat Mission Shoolini University's dedication to environmental conservation is evident through its regular plantation drives and cleanup campaigns. Partnering with the Forest Department and with the active participation of the university's NSS unit, over 15,000 saplings have been planted and nurtured, significantly enhancing the local ecosystem. Additionally, cleanup drives focusing on local water bodies in neighboring villages have promoted environmental stewardship and community well-being

Case Study 4: Parivartan - Educational Initiative and Support to the Underprivileged

"Parivartan" embodies Shoolini University's commitment to education and support for the children of daily wage workers and local communities. By adopting five neighboring villages and organizing various awareness programs, training sessions, and legal awareness camps, this initiative has reached numerous individuals. Projects such as the grant-funded research on the use of wild Himalayan figs have enabled students to connect with the community and understand the challenges faced by the underprivileged, fostering a sense of empathy and social responsibility.

Recognition and Awards The university's efforts have been recognized with several accolades and awards, underscoring its dedication to social commitment and innovation. Notable collaborations and certifications include partnerships with YouWeCan, Earth Just, Goonj, the Indian Association of Muscular Dystrophy, and certification as a "Social Entrepreneurship, Swachhta, and Rural Engagement Cell" (SES REC) Institution. Shoolini University has thus established itself as a leader in social engagement and community development, demonstrating that higher education institutions can play a pivotal role in fostering societal well-being and holistic student development.

3.6.1 Number of awards received by the Institution, its teachers and students

Sr. No.	Name of the activity	Name of the Award/ recognition	Name of the Awarding bodies
1	Solan Dan Utsav	Letter of appreciation	Earthjust
2	Social Project	Letter of appreciation	Salt Labs
3	YouWeCan Cricket Tournament for cancer awareness	Letter of appreciation	YouWeCan
4	Goonj campaigns and initiatives	Letter of appreciation	Goonj

3.6.2 Number of extension and outreach programs conducted by the institution

Sr. No.	Name of the activity	Organising agency	Name of the scheme	Number of students participated
1	Library Visit for School Students	G.S.S.S. Oachghat	Jagriti - Shoolini Outreach Educational Initiative	250
2	Blood Donation at Kather	Income Tax Office, Solan	Jagriti - Shoolini Outreach Educational Initiative	22
3	Blood Donation at Kather	Rajiv Gandhi Cancer Institute & Research Centre	Jagriti - Shoolini Outreach Educational Initiative	76
4	Tree Plantation under Azadi Ka Amrit Mahotsav	Gram Panchayat, Sanhol	Jagriti - Shoolini Outreach Educational Initiative	33
5	Noida Visit to meet Cancer Patients	PGI, Noida	Jagriti - Shoolini Outreach Educational Initiative	2
6	Manav Mandir Visit on "Happiness Happens Day"	Indian Association of Muscular Dystrophy	Jagriti - Shoolini Outreach Educational Initiative	18
7	Cancer Ward IGMC Shimla Visit	YouWeCan, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	25
8	YouWeCan volunteers Meeting with Sarabjit Singh Vella Bobby	YouWeCan, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	25
9	Blood Donation Camp with IGMC	YouWeCan, Red Ribbon Club, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	140

10	IAMD Visit by Shoolini Volunteers	Indian Association of Muscular Dystrophy	Jagriti - Shoolini Outreach Educational Initiative	19
11	International Duchenne muscular dystrophy day	Indian Association of Muscular Dystrophy	Jagriti - Shoolini Outreach Educational Initiative	26
12	Dental Health Check-up Camp	DAV Dental College, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	65
13	NSS Day Celebration Event 1	NSS shoolini, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	28
14	NSS Day Celebration Event 2	NSS shoolini, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	80
15	Visit to Manav Mandir	Indian Association of Muscular Dystrophy, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	25
16	Gandhi Museum Visit Dagshai-Gandhi Jayanti	NSS shoolini, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	44
17	Cleaning Drive-Gandhi Jayanti	NSS shoolini, NCC, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	82
18	Red Ribbon Club District Level Quiz Competition	Red Ribbon Club, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	2
19	World Food Day-Poster Making & Declamation at SILB	SILB, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	6
20	Fund raising from Goonj Bags & Pink October Badges	Goonj, NSS Shoolini, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	44
21	Goonj Bags Distribution among Housekeeping Staff	Goonj, NSS Shoolini, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	58
22	Cleaning Drive by NSS	NSS shoolini, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	93
23	Rangoli display at Manav Mandir	Indian Association of Muscular Dystrophy, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	9

24	Diwali at Manav Mandir	Indian Association of Muscular Dystrophy, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	24
25	Picnic With a Purpose	Indian Association of Muscular Dystrophy, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	12
26	Career Counselling	Vivek Career Academy, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	160
27	A Visit to Manav Mandir	Indian Association of Muscular Dystrophy, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	23
28	Sorting & Donation of Daan Utsav Material to Goonj	Goonj, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	40
29	Visit to IAMD	Indian Association of Muscular Dystrophy, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	24
30	A Picnic with Purpose	Indian Association of Muscular Dystrophy, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	11
31	Children's Day at GSSS Bohli	GSSS Bohli, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	27
32	Dental Health Check-up	DAV Dental College Tatool, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	65
33	Visit to Muscular Dystrophy Center	Indian Association of Muscular Dystrophy, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	18
34	Ashwani Khadd Cleaning Drive with Healing Himalayas	Healing Himalayas, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	60
35	A Training on HIV & AIDS- Red Ribbon Club	Red Ribbon Club, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	4

36	Guest Talk- DATRI	DATRI, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	160
37	Cancer Awareness Talk by Tanvi	YouWeCan, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	120
38	Talk by Poornima from YouWeCan	YouWeCan, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	140
39	Blood donation Camp at campus	IGMC Shimla, Red Ribbon Club, YouWeCan, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	135
40	Christmas Celebration at Manav Mandir	Indian Association of Muscular Dystrophy, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	22
41	Daan Utsav at Solan	Goonj, EarthJust, Rotary Club, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	16
42	YouWeCan Cricket Tournament	YouWeCan, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	88
43	Talk on Cancer awareness by Dr. Sumedha	GIPHI, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	90
44	IGMC Cancer Ward Visit	IGMC Shimla, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	4
45	Blood donation Camp	Red Ribbon Club, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	140
46	Session on Cancer in Literature Festival	YouWeCan, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	200
47	Medical Check-up Camp	MMU Sultanpur, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	180
48	Visit to IAMD	Indian Association of Muscular Dystrophy, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	25
49	Visit to Manav Mandir	Indian Association of Muscular Dystrophy, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	22
50	Quiz competition	School of Biotechnology,	Jagriti - Shoolini Outreach Educational Initiative	22

		DSW Office Shoolini University		
51	Idea pitching on Sustainability by Radio Shoolini	Radio Shoolini, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	18
52	Selfie Booth by Satrangi Stokes Club on Earth Day	DSW Office Shoolini University, Satrangi Stokes Club	Jagriti - Shoolini Outreach Educational Initiative	200
53	International Workers' Day	VC Office Shoolini University, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	400
54	Selfie booth on Mother's Day	DSW Office Shoolini University, Satrangi Stokes Club	Jagriti - Shoolini Outreach Educational Initiative	100
55	Online Youth Parliament	NSS Shoolini, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	12
56	Manav Mandir Visit	Indian Association of Muscular Dystrophy, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	18
57	Picnic with a Purpose- IAMD	Indian Association of Muscular Dystrophy, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	8
58	Trek to Karol- Say No to Tobacco	NSS Shoolini, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	55
59	Swarnim Himalaya Summit Shimla	Healing Himalayas, DSW Office Shoolini University, Art of Living, HPBOSE	Jagriti - Shoolini Outreach Educational Initiative	2
60	Environment day at Manjholi School	NSS Shoolini, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	36
61	Visit to IAMD Centre	Indian Association of Muscular Dystrophy, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	22
62	Capacity building for Women	VC Office Shoolini University, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	270
63	Dhananjay Talk on Gender Equity	Shades of Love, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	160

64	Workshop on Medical Emergencies	MMU Hospital, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	180
65	Awareness Session on Drug Abuse at Sanhol Panchayat	Sanhol Panchayat, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	33
66	Manav Mandir Visit	Indian Association of Muscular Dystrophy, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	22
67	Swarnim Himalaya Tree Plantation & Cleaning drive	Healing Himalayas, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	80
68	A visit to Muscular Dystrophy Centre	Indian Association of Muscular Dystrophy, DSW Office Shoolini University	Jagriti - Shoolini Outreach Educational Initiative	18

3.7. Number of functional MoUs with institutions/ industries in India and abroad

Sr. No	Organisation with which MoU is signed	Name of the institution/ industry	Duration	List the actual activities under MOU	Number of students/ teachers participated
1	The Heritage Foundation	The Heritage Foundation	2 Years	CIMA-2023, the 20th edition of the International Congress of Agricultural Museums,	24
2	Basu Rai Initiative Foundation	Basu Rai Initiative Foundation	1 Year	Guru talk by Basu Rai	50
3	WICCI National Coaching Council	WICCI National Coaching Council	2 Years	Coaching Sessions	45
4	Dolphin Institute of Biomedical and Natural Sciences	Dolphin Institute of Biomedical and Natural Sciences	5 Years	Research collaboration	1
5	Government College Solan	Government College Solan	5 Years	Library visit by Professors from Govt Degree College Solan	2

6	The University of Veda	The University of Veda	5 Years	Research Collaboration	1
7	All India Council of Human Rights, Liberties and Social Justice	All India Council of Human Rights, Liberties and Social Justice	1 Year	International Conference on Reformist Approaches to Human Rights	5
8	IIT Mandi	IIT Mandi	5 years	Student internship	3
9	UMY, Indonesia	UMY, Indonesia	5 Years	Student Exchange	1
10	NIT Hamirpur	NIT Hamirpur	5 years	Research collaboration	1

CHAPTER IV INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

- **The institution has adequate facilities for teaching - learning. viz., classrooms, laboratories, computing equipment, etc.**

Shoolini University, renowned for its academic excellence and innovative learning, has developed worldclass infrastructure that embodies the ethos of modern education. In its 14 years of existence, the university has established facilities that enhance teaching-learning processes, leverage technology-driven solutions, and promote a vibrant cultural and sports environment.

- **Teaching-Learning Infrastructure Classrooms and Laboratories:**
Shoolini University boasts a state-of-the-art infrastructure featuring 42 lecture halls, 8 smart lecture halls, 8 seminar halls, 7 e-studios, a meditation hall, 2 IT labs, a moot court, a cineplex, 2 studios, 8 conference rooms, and 99 advanced research labs—all seamlessly integrated with cutting-edge Information and Communication Technology (ICT). These state-of-the-art facilities provide a conducive environment for both teaching and experimental learning, fostering research excellence across all departments.

- **Yogananda Knowledge Centre (Central Library):**
Open 24/7, this fully digitized library offers an extensive collection of textbooks, reference books, journals, and e-resources. It houses more than 2.5 lakh e-books and 10,000 research journals through EBSCO subscriptions, meeting diverse academic and research needs.

- **Specialized Labs:**
The university boasts specialized facilities such as an Analytics Lab, a Language Lab, and an eUniv studio. These labs enhance learning experiences in specific disciplines by providing targeted resources and technology.

- **Practical Training in Hospitality Management:**
The university's guest houses, including The Chalet and Yogananda Ville, offer hands-on training for students pursuing Hotel Management, blending academic learning with real-world experience.

ICT-Enabled Facilities

- **Learning Management System (LMS) and Knowledge Management System (KMS):**

Leveraging Moodle, Shoolini University has developed a LMS that is customized to the unique needs and challenges of the university. This system supports a seamless educational experience through comprehensive digital resources- both in house and external

- **Wi-Fi Enabled Campus:**

With a 2 GBPS bandwidth, the entire campus is Wi-Fi enabled, providing students and faculty with seamless internet access for academic and research purposes.

- **Radio Shoolini:**

Run by the Department of Journalism and Mass Communication, this in-house radio and news channel offers practical exposure to media production, enhancing the learning experience for students in these fields.

- **QS IGAUGE's E-LEAD Certification:**

Shoolini University has received the highest accolade for online education, acknowledging its exceptional e-learning facilities and commitment to digital education.

Facilities for Cultural and Sports Activities Yogananda Ville:

This facility blends spirituality, academics, and eco-design, featuring a hostel, meditation hall, academic block, huts, and recreation areas. It provides a holistic environment for student development.

- **Gymnasium and Sports Facilities:**

The university offers fully equipped indoor and outdoor game facilities. These include an indoor and outdoor badminton court, a basketball court, a small outdoor stadium, a state-of-the-art gymnasium, and a yoga center.

Cultural Venues:

- Shoolini University has well-equipped auditoriums and cultural spaces including an Open-air theater that facilitate artistic expressions, performances, and cultural programs, enriching the campus life experience.

- **Meditation Huts:**

The Yoga centre includes 5 individual meditation huts, with a total of 9 rooms, designed for personal reflection and practice. Overall, Shoolini University's infrastructure supports a comprehensive and enriching academic environment, integrating modern facilities with cultural and physical wellness programs to nurture holistic student development.

4.1.1 Budget allocation excluding salary for infrastructure augmentation

Budget allocated for infrastructure augmentation	Expenditure for infrastructure augmentation	Total expenditure excluding Salary	Expenditure on maintenance of academic facilities	Expenditure on maintenance of physical facilities
12279.00	1,163.21	3195.93	762.57	816.44

4.2 Library as a Learning Resource

Shoolini University's Yogananda Knowledge Center (YKC) is an innovative transformation of the traditional library into an integrated knowledge hub that

leverages digital technologies to enhance learning, teaching, and research. This is achieved through the implementation of an Integrated Library Management System (ILMS), which supports a fully automated and digitally enabled library experience.

Automation and Accessibility: YKC is completely automated, enabling users to access a diverse range of resources through its dedicated website (library.shooliniuniversity.com). The automation process includes the issuance and return of books via the Library Management System (LMS), ensuring seamless access to library resources.

Extensive Collection of e-Resources: The library boasts a substantial collection of approximately 49,163 physical books, over 2,50,000 e-books, and 10,000 e-journals across various disciplines. These resources support the academic needs of students and faculty in fields such as Engineering, Management, Law, Agriculture, and Science. Notable e-resource subscriptions include EBSCO, JSTOR, SSC, and Manupatra, all of which provide unrestricted, full-downloadable access to their materials.

Supporting Facilities: YKC offers specialized facilities to enhance the academic experience. An Analytics Lab equipped with IBM SPSS software caters to data analysis requirements, while e-studios facilitate the recording and dissemination of video lectures. The library also provides additional resources such as laptops and Kindles which students and teachers can use. **Inspirational Environment:** The award-winning architectural design and aesthetics of YKC are crafted to inspire students. Adorned with portraits and quotes from eminent personalities, the library serves as a motivating environment and symbolizes a sacred space dedicated to the pursuit of knowledge.

Round-the-Clock Accessibility: YKC operates 24/7, a unique feature in the region, catering to university, school, and college students. The library has also extended its services to the broader community, promoting inclusive access to its resources.

Community Engagement: YKC supports Shoolini University's vision of academic excellence and community development by providing membership to school and college students from Solan district, as well as residents from nearby towns and villages.

Quantifiable Performance:

Books Collection: Approximately 49,163 physical books and 250,000 e-books spanning various disciplines.

Journals Subscription: Access to 10,000 e-journals through platforms like EBSCO, JSTOR, SSC, and Manupatra.

Wi-Fi Connectivity: The entire library is Wi-Fi enabled with a bandwidth of 2 GBPS, ensuring seamless internet access.

Computer Systems: The library includes an Analytics Lab with 13 desktop computers. **Reading Desks and Cabins:** Housed in a five-story building, YKC

provides ample space with numerous reading desks and private study cabins.

Footfall: The strategic design and 24x7 availability of YKC attract an average daily footfall of approximately 250 students, faculty members, and community residents.

Community Outreach: YKC's commitment to community engagement is reflected in its 200 membership offerings to local school and college students, as well as residents of neighbouring areas. YKC stands as a testament to Shoolini University's dedication to academic excellence, providing comprehensive support through its state-of-the-art facilities, extensive resources, and robust digital infrastructure.

4.2.1 Subscription for e-Library resources

Library has regular subscription for the following: e – journals ebooks e-Shod Sindhu Shodh ganga Databases.

4.2.2 Annual expenditure for purchase of books/ e-books and subscription to journals/e-journals

Particulars	Expenditure
Library Books	11.11
Library Journal	14.57
e-books (only Elsevier subscription taken out of total Fee and Subscription Expenses)	43.21
Databases (E resources)	108.47

4.2.3 Number of usages of library by teachers and students per day

Sr. No.	Database	Database Content Type	Month	Database Sessions	Total Searches	Total Full-Text Requests	Abstract Requests
1	EBSCO Management Collection	Regular Database	December	260	443	249	169
2	EBSCO Engineering Collection	Regular Database	December	212	231	321	189
3	STM Source	Regular Database	December	527	897	1003	998
4	eBook Academic Collection (EBSCOhost)	eBook	December	1085	1149	2233	1897
5	EBSCO Management Collection	Regular Database	November	232	267	209	153

6	EBSCO Engineering Collection	Regular Database	November	161	239	198	191
7	STM Source	Regular Database	November	776	1232	1102	1345
8	eBook Academic Collection (EBSCOhost)	eBook	November	921	1491	1783	1293
9	EBSCO Management Collection	Regular Database	October	302	537	222	159
10	EBSCO Engineering Collection	Regular Database	October	156	359	147	121
11	STM Source	Regular Database	October	345	551	1045	304
12	eBook Academic Collection (EBSCOhost)	eBook	October	238	395	309	183
13	EBSCO Management Collection	Regular Database	September	242	528	411	260
14	EBSCO Engineering Collection	Regular Database	September	126	352	298	181
15	STM Source	Regular Database	September	250	551	1389	251
16	eBook Academic Collection (EBSCOhost)	eBook	September	135	374	227	177
17	EBSCO Management Collection	Regular Database	August	211	338	419	141
18	EBSCO Engineering Collection	Regular Database	August	189	361	201	109
19	STM Source	Regular Database	August	289	1156	654	372
20	eBook Academic Collection (EBSCOhost)	eBook	August	732	2098	749	341
21	EBSCO Management Collection	Regular Database	July	108	182	209	117
22	EBSCO Engineering Collection	Regular Database	July	239	371	233	118

23	STM Source	Regular Database	July	580	1638	710	447
24	eBook Academic Collection (EBSCOhost)	eBook	July	691	865	654	321
25	EBSCO Management Collection	Regular Database	June	181	473	224	63
26	EBSCO Engineering Collection	Regular Database	June	126	313	109	89
27	STM Source	Regular Database	June	149	366	3003	1122
28	eBook Academic Collection (EBSCOhost)	eBook	June	185	314	317	210
29	EBSCO Management Collection	Regular Database	May	293	705	421	129
30	EBSCO Engineering Collection	Regular Database	May	432	468	213	110
31	STM Source	Regular Database	May	254	489	557	465
32	eBook Academic Collection (EBSCOhost)	eBook	May	234	349	657	134
33	EBSCO Management Collection	Regular Database	April	209	480	111	49
34	EBSCO Engineering Collection	Regular Database	April	172	314	221	102
35	STM Source	Regular Database	April	171	347	722	346
36	eBook Academic Collection (EBSCOhost)	eBook	April	118	322	162	111
37	EBSCO Management Collection	Regular Database	March	158	508	258	108
38	EBSCO Engineering Collection	Regular Database	March	140	515	113	123
39	STM Source	Regular Database	March	156	377	748	357

40	eBook Academic Collection (EBSCOhost)	eBook	March	348	1207	1235	432
41	EBSCO Management Collection	Regular Database	February	175	357	334	91
42	EBSCO Engineering Collection	Regular Database	February	150	119	110	78
43	STM Source	Regular Database	February	147	275	253	198
44	eBook Academic Collection (EBSCOhost)	eBook	February	109	246	411	132
45	EBSCO Management Collection	Regular Database	January	239	505	150	53
46	EBSCO Engineering Collection	Regular Database	January	193	506	113	84
47	STM Source	Regular Database	January	180	373	273	113
48	eBook Academic Collection (EBSCOhost)	eBook	January	143	483	597	123
13669	27016						

4.3 Maintenance of Campus Infrastructure

4.3.1 Total expenditure incurred on maintenance of physical facilities and academic support facilities

Budget allocated for infrastructure augmentation	Expenditure for infrastructure augmentation	Total expenditure excluding Salary	Expenditure on maintenance of academic facilities (excluding salary for human resources)
12279.00	1,163.21	3364.05	3364.05

4.3.2 Established systems and procedures for maintaining and utilizing physical, academic and support facilities

In today's educational landscape, the harmonious fusion of physical, academic, and support resources is crucial for an enriching experience. Spanning 25 acres of lush greenery, Shoolini University prioritizes ongoing investment in top-tier facilities, detailing its comprehensive approach to their maintenance and utilization for academic excellence, well-being, and safety.

- **Infrastructure and Equipment**
University ensures top-tier experiences with round-the-clock infrastructure maintenance. Dedicated teams monitor power, conduct regular audits, and manage the water supply rigorously. Laboratories, lecture halls, and equipment are carefully managed by respective personnel, with critical facilities receiving preventive maintenance from authorized agencies.
- **On-Campus Facilities Food and Beverage:**
The campus features nine cafeterias, a bakery, a juice and snack shop, and a Nescafe coffee shop to cater to diverse culinary needs.
- **Essential Services:**
Students and staff have access to laundry services, photocopy services, stationery supplies, a unisex salon, two ATMs, and a well-equipped gymnasium.
- **Sports Complex**
The university boasts a comprehensive sports infrastructure, including the Milkha Singh Indoor Sports Complex and the Yuvraj Outdoor Stadium. Facilities for badminton, wrestling, football, cricket, volleyball, basketball, table tennis, and pool enrich the student experience.
- **Transport**
Shoolini University maintains a fleet of 8 buses, 17 cars, and 2 ambulances, ensuring campus and offcampus mobility. The university rigorously upholds compliance with seating, documentation, and driver screening.
- **Security and Surveillance**
Campus safety is ensured through a private security agency. University personnel strategically install and maintain surveillance cameras for continuous vigilance.
- **Teaching Aids**
The IT team conducts regular checks and maintenance of teaching aids, with authorized agencies handling repairs as necessary.
- **Maintenance Standard Operating Procedure (SOP)**
 - Regular Inspection and Monitoring:
 - Frequency: Inspections are conducted daily, weekly, monthly, or annually, depending on the
 - facility.
 - Responsibility: Assigned personnel from the construction and maintenance department, IT team, operations team, and authorized agencies.
 - Tools & Equipment: Utilize appropriate testing and inspection tools for each facility. Reporting: Document findings and any irregularities for immediate attention.

- **Preventive Maintenance:**
 - Scheduled Services: Regular preventive maintenance services according to manufacturers' guidelines and university protocols.
 - Outsourcing: Authorized agencies are engaged for specialized equipment (e.g., 3M water filtration, firefighting equipment). Record-Keeping: Maintain a log of all preventive maintenance activities for compliance and review.
- **Corrective Maintenance:**
 - Issue Identification: Determine the root cause of any malfunctions or irregularities.
 - Repair and Replacement: Promptly address issues through repair or replacement of parts as needed.
 - Quality Control: Ensure repairs meet standards and inspect for safety.
- **Cleaning and Beautification:**
 - Regular Cleaning: Daily cleaning of common areas, classrooms, labs, cafeterias, and sports facilities.
 - Landscaping: Regular maintenance of gardens, lawns, and tree houses by the landscaping team.
- **Waste Management:**
 - Proper segregation and disposal of refuse, including lab waste, according to environmental regulations.
- **Security and Surveillance:**
 - 24x7 Security: Continuous monitoring and patrolling of the campus by a private security agency. Surveillance System Maintenance: Regular checks and maintenance of installed surveillance cameras.
- **Transport Maintenance:** Vehicle Check: Regular inspection of buses, cars, and ambulances. Driver Verification: Timely documentation and screening of drivers and conductors. By adhering to these comprehensive systems and procedures, Shoolini ensures its optimal utilization of resources.

CHAPTER – V

STUDENT SUPPORT AND PROGRESSION

5.1 Student Support

5.1.1 Total number of students benefited by scholarships and free ships

Name of the scheme	Number of students benefited by the institution's schemes and amount	
	Number of students	Amount
BPL Scholarship	18	1745476
Merit cum Means Scholarship	20	445792.5
Need Based Scholarship	13	784281.75
Defence Scholarship	85	730191.35
Need-cum-merit based scholarship for all UG/ PG programs	36	1496952
Students of Northeast/Bhutan/Nepal	3	276788
Resident of J&K / Kashmiri Migrants	3	45546
Ph.D Research Scholarship	8	507065
Scholarship for Experienced candidates applying for MBA	1	44555
Shoolini Academic Progression Scholarship (SAPS)	63	3950677
Shoolini Alumni Scholarship (SAS)	4	321571
Shoolini Engineering Scholarship Test (SEST)	1	125000
Siblings Scholarship	2	84857
Single Parent Scholarship	23	714024
Special Scholarship	144	5960263.1
Sports Scholarship	20	347572.13
JRF Scholarship	13	2098537
Merit Scholarship	200	7151769.5
Vice Chancellor Fellowship	15	2323663
Chancellor's Fully Funded Research Fellowship	8	1310531
Ward Scholarship	34	4255964
International Students Scholarship	37	7783250
HP Core Engineering	3	142572
HP CSE Scholarship	50	4205769
NON HP CSE SCHOLARSHIP	8	489352
Ramanujan Scholarship	2	297028

Hostel Fee Scholarship	5	311712.5
BRP Scholarship	40	208000
Topper Scholarship	136	428000
Coursera	320	10573382.9
Swayam	2119	3008000
Shoolini Stipend Scheme	534	267000

5.1.1.2 Number of students benefited by government scheme and amount

Name of the scheme	Number of students benefited by government scheme and amount	
	Number of students	Amount
Umbrella Scheme for Education of ST Children Post Matric Scholarshi (PMS) for ST Students Arunachal Pradesh	32	According to Government Policy
Umbrella Scheme for Education of ST Children Post Matric Scholarship (PMS) for ST Students Meghalaya	3	According to Government Policy
Kalpana Chawla Chatravriti Yojana Himachal Pradesh	2	According to Government Policy
Centrally Sponsored Post Matric Scholarship for SC Students Jammu and Kashmir	1	According to Government Policy
Centrally Sponsored Post Matric Scholarship for SC Students Himachal Pradesh	5	According to Government Policy
Ishan Uday Special Scholarship NER	2	According to Government Policy
Centrally Sponsored Post Matric Scholarship Scheme for ST Students of Himachal Pradesh	1	According to Government Policy
Post Matric Scholarshi Scheme for ST Students of Sikkim	1	According to Government Policy
Post Matric Scholarship to ST Students Assam	1	According to Government Policy
Centrally Sponsored Post Matric Scholarship for ST Students Ladakh	1	According to Government Policy
Post Matric Scholarshi Scheme for ST Students of Tripura	1	According to Government Policy
Post Matric Scholarship Scheme for Minorities CS	7	According to Government Policy

Prime Minister's Scholarship Scheme Central Armed Police forces and Assam Rifles	3	According to Government Policy
PM Yasavi Post Matric Scholarship for OBC Students Himachal Pradesh	1	According to Government Policy
Merit cum Means Scholarship for professional and Technical Courses CS	4	According to Government Policy
Post Matric Scholarshi Scheme for SC Students of Manipur	1	According to Government Policy
Arunachal Pradesh State Stipend Scheme	1	According to Government Policy
Post Matric Scholarship for Students with Disabilities	1	According to Government Policy
Technical Education Scholarship Scheme for Degree Level Himachal Pradesh	1	According to Government Policy
Pragati Scholarship Scheme for Girls (Degree) for Technical Education	2	According to Government Policy

5.1.2 Total number of students benefited by career counselling and guidance for competitive examinations

Sr. No.	Name of the Activity conducted by the HEI to offer guidance for career counselling offered by the institution during the year	
	Details of career counselling	Number of students attended / participated
1	Skill Progression through Rapid Intensive and Innovative Training on Entrepreneurship for - Core Engg, CSE- 6th Semester	146
2	Skill Progression through Rapid Intensive and Innovative Training on Aligning Internship with Career Interest for MBA Quad 4	112
3	Session on Career Options in the Civil Services	160
4	Career Plan session for BTech CSE -AI-AIR-SIAIDS-CC-CS , AI & BCA- 2nd Semester Students	172

5	Career Counseling Session for Final Year Students For Placement	195
6	Skill Progression through Rapid Intensive and Innovative Training on your Career for BTech and B. Sc BT Research, FT Research, BI, Micro Research, Nutrition 2nd Semester students	166
7	Session on Future of Nano Particle in different Application for Postgraduates 1st Semester	68

5.1.3 Capacity development and skills enhancement initiatives

Sr. No.	Name of the capability enhancement program	Date of implementation	Number of students enrolled	Name of the agencies
1	Presentation on effective communication and equity and equality for the Transgender Community	13-06-2023	56	Mx Dhananjay (Transgender/LGBIQ Activist and President @saksham_prakriti_welfare)
2	Traning on Stress Management and Work Life balance for - BTech BT,FT,P,FT Agri, BSc Agriculture-6th Semester	13-06-2023	149	Mr. Partho (Educator, writer & Coach)
3	Workshop on Entrepreneurship for - Core Engg, CSE- 6th Semester	03-05-2023	146	Ms. Parul Verma (ADOS- The Lalith Chandigarh)
4	Training on Campus to Corporate for UGFMS-6th Semester	25-04-2023	119	Ms. Navneet Sandhu (International Coach and Leadership Consultant)
5	Training on Campus to Corporate for UG Sciences + BSc Agriculture 8th Semester	27-04-2023	181	Sanjeev Arora (Former Secretary & Ambassador, Govt of India)
6	Presentation on Future of Nano Particle in different Application for Postgraduates 1st Semester	04-01-2023	68	Dr. Mahavir Singh (Prof. of Physics, HPU)

7	Session on General Etiquette and Grooming for Post Graduate 1st Semester Students	05-01-2023	72	Pratip Mazumdar, Director, School of Hospitality, Shoolini University
8	Session on Problem solving & decision making for Core Engg, CSE & BCA 8th & 6th semester students	21-04-2023	157	Mr BK Kaul, Professor of Practise, Shoolini University
9	Session on Guidelines to GD & Practise for - PG Sciences + M Tech FT- 4th Semester Students	27-04-2023	134	Mr. Shard, Assistant Professor, Shoolini University
10	Session on Business Plan for Sole Proprietors for BBA,BCom,BA Economics- 4th Semester Students	08-05-2023	175	Dr. Chander Mohan, Assistant professor, Shoolini University
11	Session on Tools of AI Tools Core Engg, CSE, BCA, BSc Math- 4th Semester Students	09-05-2023	130	Dr. Amar Raj -Director SCDOE, Shoolini University
12	Session on Guidelines to GD & Practice for BTech. BT,FT, BI Liberal Arts 4th Semester Students	06-06-2023	167	Mr. Shard- Assistant Professor, Shoolini University
13	Session on Self awareness - Presenting your own self for BSc BT,FT, Micro, ND, Yoga 4th Semester students	07-06-2023	133	Ms Poonam Nanda-Dean Student Welfare, Shoolini University
14	Session on General Etiquette & Manners for UGFMS ,BTech Civil, ECE, B Design & BSc Mathematics 2nd Semester Students	21-06-2023	170	Mr Pratip Mazumdar- Director School of Hospitality & Hotel Mgmt.

15	Session on different approaches to Interpersonal Skills for UGFMS 6th Semester students	25-04-2023	119	Ms Navneet Sandhu- International Coach and Leadership Consultant
16	Session on different approaches to Interpersonal Skills for Bioengineering- 8th Sem+ BSc FT & BSc ND-6th Semester students	26-04-2023	139	Ms Navneet Sandhu- International Coach and Leadership Consultant
17	Session on Major Challenges in the Middle East and Implications for India for UG Sciences + BSc Agriculture 8th Semester Students	27-04-2023	181	Ambassador Sanjeev Arora- Former Secretary & Ambassador, Govt of India Diplomacy & Strategic Affairs Energy Security Global Trade and Investment
18	Session on Aligning Internship with Career Interest for MBA Quad 4	29-05-2023	112	Mr Tarun Gupta- Professor of Practise, Shoolini University
19	Session on Focusing on your own Career Plan for BTech CSE - AI-AIR-SIAIDS-CC-CS ,AI & BCA- 2nd Semester Students	20-06-2023	172	Mr Pradeep Sharma - Head of Human Resources (Consultant) at AMPYR Energy and visiting Professor at Shoolini University
20	Session on Focusing on your own Career Plan for BTech BT Research, FT Research, BI/ BSc BT Research, FT Research, Micro Research, Nutrition 2nd Semester students	28-06-2023	166	Ms Meenakshi Ahlawat- Business communication Coach, Shoolini University
21	Session on Focusing on your own Career Plan for Liberal Arts + Basic Sciences + BSc Agriculture 2nd Semester students	28-06-2023	105	Ms Meenakshi Ahlawat- Business communication Coach, Shoolini University

22	Session on How to Manifest Your Destiny for UGFMS 3rd Semester	29-11-2022	179	Ms. Renee Singh- Psychotherapist, Freelance Columnist
23	Session on Getting Ready for the Real world for MBA Quad 2 Students	22-11-2022	119	Ms. Ritika - CEO & Founder- Kontent Factory
24	Leadership and Personal Growth Session for Final Year Students	07-10-2022	195	Mr. Mohit Shetty (Deputy Head HR, Nippon Life India Asset Management)
25	Creativity & Innovation induction for MBA Quad 1 students	25-08-2022	119	Ms. Purnima Chauhan- Ex IAS Officer & Motivational Speaker
26	Presentation on Communication Skill for Liberal Arts + BSc HHA 6th Semester	20-04-2023	90	Dr Jaishree Sethi (Creative Director at Story Ghar) & Shamir (Director at Cheshta Care Foundation)
27	Tranning session on Resume Writing & Mock Interviews for Postgraduates 1st Semester students	04-01-2023	68	Dr. Prachi Kapil- Assistant Professor, FMSLA, Shoolini University
28	DIALECTICUSS: Himalayan Literary Forum	22-09-2023	18	Ms. Chetna Keer a novelist, columnist, and creative writing coach
29	Crafting Compelling Narratives: A Guide on How to Write a Play	08-11-2023	15	Prof. Nasser Dasht Peyma, Chitrakoot School of Liberal Arts, Shoolini University, Solon
30	Session on Interpersonal communication and belief systems for Bio Engineering 1st Semester students	21-12-2022	82	Mr. Charanjit Singh- Communication Strategist,Adjunct Professor, Shoolini University
31	Session on Five Waters Lessons of Communication from the Advertising World for B.Tech Core	21-12-2022	198	Mr Tushar Mittal, Founder MySoho

	Engineering 1st Semester students			
32	Session on MBTI and communication styles for Basic Sciences 1st semester students	20-12-2022	98	Dr. Ashoo Khosla, Chief Learning Officer, Shoolini University
33	Session on Future of Communication for UGFMS 1st Semester Students	19-12-2022	189	Prof Atul Khosla, Vice Chancellor, Shoolini University
34	Session on Smart Communication for B.Tech (Bioengineering) 5th Semester Students	02-12-2022	146	Dr. Purnima Bali, Associate Professor & HOS Chitrakoot School of Liberal Arts Shoolini University
35	Session on Resume Writing for a great career success for _ B.Tech (Core Engineering + CSE) 5th Semester Students	02-12-2022	148	Poonam Nanda, Dean Student Welfare , Shoolini University
36	Session on Non-Verbal Communication for Liberal Arts 3rd Semester Students	29-11-2022	98	Dr. Prachi Kapil-Assistant Professor, FMSLA, Shoolini University
37	Session on Mindfulness & Happiness for Core Engg, CSE 6th Semester Students	03-05-2023	146	Dr. Saamddhu Chetri-Visiting Professor at IIT Kharagpur & Director at GNH Center, Bhutan
38	Session on AIDS & HIV for Basic Science + BTech FT + BSc Agriculture 3rd Semester	31-11-2022	123	Dr. Poornima YouWeCan (Program manager)
39	Session on Mental Health for B. Tech 3rd Semester Students	30-11-2022	198	Dr. Mahavir Singh-Professor of Physics,HPU Shimla
40	One day Educational Tour Of Engineering Student to IndSphinx, Parwanoo (H.P)	13-05-2022	34	IndSphinx, Parwanoo (H.P)

5.2 Student Progression

5.2.1 Students qualifying in state/ national/ international level examinations

Registration number/ number for the exam	roll	Names of students selected/ qualified
BT22S54028080		Pukhrambam Subhash Singh (GATE)
BT22S58038188		Ashoo Singh (GATE)
230520078226		Ajay Sharma (NET)
-		Reshav Kaundal (Kashmir Jal Shakti (PHE) Dept, Srinagar)
HP07000072		Caroline Paul (GPAT)

5.2.2 Total number of placements of outgoing students

Sr. No.	Name of student placed and contact details	Name of the employer with contact details	Pay package (INR in lacs)
	Student Name	Company	
1	Gaurav Thakur	Torrent Pharma	1.56
2	Gaurav Thakur	Macleods Pharmaceuticals	2.52
3	Deepanshu Bhatia	Rathore Construction	2.5
4	Kanak Nirmohi	Acme Generics	2.4
5	Rahul Kumar	Macleods Pharmaceuticals	2.52
6	Swati Mishra	Torrent Pharma	1.56
7	Inder Dev Singh Thakur	Heinemann	14
8	Abinesh Raj VM	Oxilum Technologies	5.64
9	Ankita Rana	Acme Generics	2.4
10	Atul Sharma	Torrent Pharma	1.56
11	Geetanshi	Acme Generics	2.4
12	Soham Chakrabarti	Acme Generics	3.6
13	Shikha Chowdhary	Acme Generics	2.4
14	Ekta Devi	Acme Generics	2.4
15	Aditi Chaturvedi	Acme Generics	2.4
16	Aditya Singh	Fitelo	2.9
17	Akhil Awasthi	Fitelo	3
18	Ankit Malhotra	Genpact	3.5
19	Mahika Panwar	Shoolini University	2
20	Monika Bansal	Shoolini University	2.4

21	Neha Mittal	Shoolini University	2.4
22	Palak Dhingra	Byju's	4.5
23	Shivam Kaushik	Kotak Life Insurance	2.5
24	Shivam Saklani	Genpact	3.5
25	Shourya Mandla	Fitelo	2.1
26	Shraddha	Amplifon India Pvt. Ltd	4
27	Skarma Angmo	Eclerx	2.5
28	Smarty Chandan	Fitelo	2.1
29	Vaishali Jakhmola	Genpact	3.5
30	Vishal Gupta	Sundram Finance	4
31	Zitra Khatkar	Fitelo	2.1
32	Abhishek Choudhary	Macleods Pharmaceuticals	2.52
33	Amar Choudhary	Alkem Laboratories Limited	2.5
34	Anita Gautam	Alkem Laboratories Limited	2.5
35	Anshul Thakur	Alkem Laboratories Limited	2.5
36	Ashakt	Macleods Pharmaceuticals	2.52
37	Ayush Anand	Macleods Pharmaceuticals	2.52
38	Ayush Saxena	IDS Infotech	3.6
39	Chetan Sharma	Torrent Pharma	1.56
40	Divakshi Sharma	Alkem Laboratories Limited	2.5
41	Harish Thakur	Torrent Pharma	1.56
42	Jagriti Mishra	Alkem Laboratories Limited	2.5
43	Kajal Thakur	Torrent Pharma	1.56
44	Mandeep Kaur	IDS Infotech	3.6
45	Minter Ete	IDS Infotech	3.6
46	Piyush	IDS Infotech	3.6
47	Rajat Kaushal	IDS Infotech	3.6
48	Rishabh Sharma	Torrent Pharma	1.56
49	Rishav Kumar	Alkem Laboratories Limited	2.5
50	Ritika Thakur	Alkem Laboratories Limited	2.5

51	SAMYAK	Alkem Laboratories Limited	2.5
52	Saurabh Singh	Macleods Pharmaceuticals	2.52
53	Shubham Kumar	IDS Infotech	3.6
54	Deepshikha	Fitelo	2.5
55	K Gayatri	Fitelo	2.5
56	Prerna Deep Kaur Mehta	Signicent	2.64
57	Shikha Jha	IDS Infotech	3.6
58	Simi Sharma	Haldivita	3
59	Pallavi Chauhan	Planet Spark	6.5
60	Yashasavi	Akal Academy	2.4
61	Rupali Chaudhary	Shoolini University	2
62	Amit	Zenesis Agrosiences	3
63	Bhawna Kumari	Zenesis Agrosiences	3
64	Niharika	Zenesis Agrosiences	3
65	Shorya Paicha	Zenesis Agrosiences	3
66	Digvijay Bhatnoo	JW Marriot	15
67	Dushant	Mangla Resort & Spa	1.8
68	Kunal Thakur	Oberoi Rajvilas	2.5
69	Kushagar Jamwal	Oberoi Rajvilas	2.5
70	Shashi Thakur	Bristol Tourist Complex	1.4
71	Shreya Das	Mangla Resort & Spa	1.8
72	Tanvi Arora	Lemon Tree Hotels	2.49
73	Abhishek Ghaghat	Club Mahindra	2
74	Banshita Sharma	Fitelo	4.5
75	Catherine Rai	Fitelo	2.5
76	Diksha Kumari	Fitelo	2.5
77	Nehul Mishra	Vishwachetana Yoga Research Centre	5
78	Priyanka Devi	Club Mahindra	2
79	Shivani Kumari	Fitelo	4.5
80	Aadish Garg	Planet Spark	6.5
81	Adeeb Ahmad Siddiqi	Signicent	3.5
82	Aman Alam	First Connect Health	2.4
83	Anmol rana	Signicent	3.5

84	Chandani	Planet Spark - Winspark Innovations Learning Pvt Ltd.	6.5
85	Damini Bansal	Fitelo	2.5
86	Gunika	Planet Spark	6.5
87	Jhanvi Rajput	Signicent	3.5
88	Kajal Arya	Panacea Biotech	3.5
89	Kamya Garg	Planet Spark	6.5
90	Lalith	Amplifon India Pvt. Ltd	4
91	Mitali Gupta	Shoolini University	2.17
92	Nancy Thakur	Panacea Biotech	3.5
93	Pushpgandha Tiwari	Rentech Digital	7.8
94	Riya	Reload Digital	1.2
95	Riya Gurung	Planet Spark	6.5
96	Shaniya	Scribe EMR Systems Pvt Ltd.	2.76
97	Suryansh Sharma	Byju's	4.5
98	Tisha Gupta	Torrent Pharma	1.56
99	Aayushi Balyan	Aether Health Private Ltd	4
100	Chaitanya Sachdeva	Planet Spark	6.5
101	Debarghya Ghosal	INCEDO	5.75
102	Falguni	Letslocalise Technology & Innovation	4
103	Jhillika Trisal	Aspire Clothers & Lifestyle India	5.4
104	Mehak	Activity Beds Technologies	5.25
105	Mishita Rustagi	Smart Analyst India	3.75
106	Pratyaksha Gupta	INCEDO	5.75
107	Shreya Tiwari	Amplifon India Pvt. Ltd	4
108	Aayush Gupta	COGNIZANT	4
109	Abhishek Shandil	HCL	6
110	Abhishek Thakur	Code Brew	3
111	Akhil Thakur	PhysicsWalla	3.5
112	Akshat Thakur	COGNIZANT	4
113	Aman	IBM	4
114	Amit Saraswat	FPLABS	9.8
115	Ankit	Cetark	3.85

116	Ankit Mehta	Cetark	3.85
117	Anmol Raj	Capegemini	4.75
118	Anshul Sharma	ORANGE	5
119	Arpita Aditi	Shubham Housing Finance	3.25
120	Arya	Seeburger	5
121	Aryan	ORANGE	5
122	Asmita	Mercer	5.8
123	Ather Mahmood	Shubham Housing Finance	3.25
124	Avantika Thakur	COGNIZANT	4
125	Chaitanya Mandyal	Cetark	3.85
126	Dikshant Chaudhary	DigiMantra	5
127	Dikshita Thakur	Shubham Housing Finance	3.25
128	Diyansh Rao	Abaca Systems	4
129	Eka Singhal	HUGHES SYSTIQUE	10
130	Haider Ali Rizvi	Abaca Systems	4
131	Hansul Chandel	FPLABS	9.8
132	Ishant Chandna	FPLABS	9.8
133	Ishika Thakur	Capegemini	4.75
134	Jitender Kumar	PhysicsWalla	3.5
135	Kanika Rana	Code Brew	3
136	Kashish Thakur	INCEDO	5.75
137	Kiran Panwar	INCEDO	5.75
138	Kunal	DigiMantra	5
139	Kushagra Mittal	COGNIZANT	4
140	Naman Sharma	ORANGE	5
141	Nikhil Tonwar	Cetark	3.85
142	Nitish Kumar	ORANGE	5
143	Noor Bansal	Seeburger	5
144	Omansh Kothari	HUGHES SYSTIQUE	10
145	Pallavi	COGNIZANT	4
146	Pankaj	INCEDO	5.75
147	Parth Dutta	Capegemini	4.75
148	Prachi Aggarwal	Abaca Systems	4
149	Ritik Thakur	Abaca Systems	4
150	Riya	Capegemini	4.75
151	Riya	Shubham Housing Finance	3.25

152	Riya Chauhan	Tech Mahindra	3.25
153	Samrat Gupta	Seeburger	5
154	Saransh Goswami	EKO India Financial Services	7.5
155	Shaswat	Code Brew	3
156	Shivam Mandyal	PhysicsWalla	3.5
157	Sneha Attri	Shubham Housing Finance	3.25
158	Sukant Sharma	Abaca Systems	4
159	Suniti Hetta	PhysicsWalla	3.5
160	Suraj Adhikari	Cetark	3.85
161	Surya Prakash Sharma	COGNIZANT	4
162	Vaibhav Gandhi	HCL	6
163	Vipul Sharma	DigiMantra	5
164	Vishal Thakur	Abaca Systems	4
165	Vishal Thakur	Tunica Labs	3.5
166	Aman Guleria	Autolek	4
167	Anurag Suri	Saatvik Green Energy Private Ltd.	3.6
168	Arun Kumar	Saatvik Green Energy Private Ltd.	3.6
169	Kamal	Saatvik Green Energy Private Ltd.	3.6
170	Neeraj Thakur	Saatvik Green Energy Private Ltd.	3.6
171	Rahul Kumar	Khanna Papers	3.75
172	Sahil Sharma	QM Bitz	2.64
173	Shubham Thakur	Saatvik Green Energy Private Ltd.	3.6
174	Vipul Rawat	ITC	4.25
175	Aayushi	Planet Spark - Winspark Innovations Learning Pvt Ltd.	6.63
176	Abhay Swaroop Bhanagar	Eclerx	2.33
177	Aditi Chaudhary	COGNIZANT	4
178	Alisha Thakur	Rapture Biotech	1.6
179	Anjali Thakur	Rapture Biotech	1.6
180	Ashish	Triveni Milk Food Company	2.2
181	Dheeraj Kumar	Haldivita	3

182	Faizal Raza	Mrs. Bectors Food Specialties Ltd (Cremica)	3
183	Jatin Thakur	Mrs. Bectors Food Specialties Ltd (Cremica)	3
184	Jitika Gupta	ITC	4.25
185	Mansi	Learning Routes	5.7
186	Pranshu Gupta	Haldivita	3
187	Ridhi Chaudhary	Param International School	1.86
188	Sheetal Jaswal	Signicent	3.5
189	Tanika Kanwar	Chatha Foods Pvt Ltd	2.4
190	Umang	Simply Vyapar Apps Ltd.	2.82
191	Atoshi Banerjee	LeadSquared	2.4
192	Jatin Kumar Bhardwaj	Chatha Foods Pvt Ltd	2.4
193	Kunishka	Planet Spark - Winspark Innovations Learning Pvt Ltd.	6.5
194	Neelam Semwal	Haldivita	2.6
195	Ratandeep Soni	Global Travel DMC	3.6
196	Ridhi Kapoor	Triveni Milk Food Company	2.2
197	Vishal Dutt Sharma	ITC	4.25
198	Akriti Taneja	Icuerious	4.2
199	Gauri Verma	Planet Spark - Winspark Innovations Learning Pvt Ltd.	6.6
200	Shreya Khetrapal	COGNIZANT	4
201	Adarsh Singh	Khanna Papers	3.75
202	Durgesh Upadhyaya	Adani Group	6.5
203	Harshit Gupta	JSW	9.5
204	Ritik Awasthi	Mahindra & Mahindra	4
205	Ritika Rana	Autolek	4
206	Samridh Sandal	Khanna Papers	3.75
207	Abhishek Balsam	Shoolini University	2
208	Ankita Prasher	Optimise OMG Network (Shoogloo)	3

209	Kashish Verma	Shoolini University	2.4
210	Riutika ivastava	Shoolini University	2.4
211	Durtiman Sonowal	PTC	1.8
212	Harsh	Shoolini University	2.4
213	Kanupriya Sharma	Bingo Media	1.44
214	Rohit Uttam	Punjab Kesari TV	2.6
215	Saket saurabh	Shoolini University	2.4
216	Simran Chauhan	BridgeCo	2
217	Vaidehi Garg	High School Moms	2
218	Mohit Verma	Shoolini University	2.4
219	Akarshit Dhillon	Shoolini University	2.4
220	Aman Gora	Haldivita	2.4
221	Anubhav Roda	Shoolini University	2
222	Ashika Gupta	Planet Spark	6.5
223	Dikshant Sharma	Fitelo	2.5
224	Hrishav Manta	ZENITH TECH SOLUTIONS	6
225	Ishita Chauhan	Kotak Life Insurance	2.5
226	Manjeet Singh	Byju's	4.5
227	Mannat Shyam	PINGAKSHO Technologies	3
228	Mihsalan Truh	ZENITH TECH SOLUTIONS	6
229	Nishant	Haldivita	2.4
230	Nitish Kumar	Fitelo	2.5
231	Prajjal Bhattacharjee	PhysicsWalla	3
232	Rahul	Sundram Finance	4
233	Rahul Rana	Shoolini University	1.92
234	Ritik Bhawariya	Haldivita	2.4
235	Ritwik Kumar	Litehires	2.4
236	Siddhant Mishra	Eclerx	2.5
237	Tai Sankio	Eclerx	2.5
238	Tushar Kokiloo	Fitelo	2.1
239	Vansh	Haldivita	2.4
240	Alisha Mahajan	RMS Risk Management Solutions (Moody's)	5.65
241	Himani Kumari	Fitelo	2.5

242	Sanya Walia	Jaro Education	6.6
243	Tanmay Chandhok	Seeburger	5
244	Meghna Thakur	Shoolini University	3
245	Abhinav	Macleods Pharmaceuticals	3.3
246	Bhanu Singh	Macleods Pharmaceuticals	3.3
247	Kostav Guleria	IDS Infotech	3.6
248	Manish Arora	Macleods Pharmaceuticals	3.3
249	Meenakshi Tripathi	Dr. Reddy	3
250	Priya Kumari	AKD Consultant	3
251	Priyanshi Singh	Torrent Pharma	1.56
252	Shivani Ranjan	Abbott	4
253	Tanuj Kumar Sharma	Pinnacle	4
254	Vivek Raj	Torrent Pharma	1.56
255	Harshit Garg	IDS Infotech	3.6
256	Manish Acharya	Dr. Reddy	3
257	Nicky Singh	IDS Infotech	3.6
258	Om Shah	Torrent Pharma	1.56
259	Ila Das	IDS Infotech	3.6
260	Ajay Panwar	Akal Academy	2.76
261	Simran Kaur	Akal Academy	2.76
262	Abhishek Sharma	Pinnacle	4
263	Amish Nilesh Jamvecha	VIECELL Insitute of Regerative Medicine	1.4
264	Asha Bhat	Wrig Nano System	3.6
265	Harish Chavan	Byju's	4.5
266	Jyoti Ojha	Panacea Biotech	3.5
267	Mariyam Khan	Amplifon India Pvt. Ltd	4
268	Mridul Thakur	Wrig Nano System	3.6
269	Nir Chetry	Shoolini University	2.59
270	Palak Aggarwal	Panacea Biotech	3.5
271	Prachi Tyagi	Planet Spark	6.5
272	Prem Kumar	Wrig Nano System	3.6
273	Rachita Bhandari	Planet Spark	6.5
274	Ravindra Singh Pandya	Signicent (Not Joining)	3.5

275	Sanjana Sharma	Planet Spark	6
276	Swathy S	Icuerious	4.2
277	Tanishq Phulwani	Wrig Nano System	3.6
278	Vandana Bhatt	Planet Spark	6.5
279	Vishab Pathania	Panacea Biotech	3.5
280	Amey Jedhe	Wrig Nano System	3.6
281	Anuj Sharma	Wrig Nano System	3.6
282	Avesh Choubey	Amplifon India Pvt. Ltd	4
283	Deepali	Panacea Biotech	3.5
284	Ishita Thakur	Panacea Biotech	3.5
285	Jyoti Devi	Shoolini University	2.59
286	Muskan Thakur	Havells	2.5
287	Pankaj Patil	AKD Consultant	3
288	Vartika Sood	Shoolini University	2.16
289	Abhishek	Torrent Pharma	1.56
290	Akshay Sharma	Torrent Pharma	1.56
291	Aman Chauhan	Macleods Pharmaceuticals	2.52
292	Aman Kumar	Umber Matra Infratech	3
293	Amisha Kumari	Akal Academy	2.16
294	Dixit kumar	Macleods Pharmaceuticals	2.52
295	Pratik Kumar	Torrent Pharma	1.56
296	Raksha Devi	Dr. Reddy	3
297	Rohit Sharma	Pinnacle	4
298	Sandeep Sharma	Macleods Pharmaceuticals	2.52
299	Shivangi	Macleods Pharmaceuticals	3
300	Abhinav Kumar	Macleods Pharmaceuticals	2.52
301	Megha Sharma	Wrig Nano System	3.6
302	Nikita Chauradiya	Seeburger	5
303	Tamanna Kanwar	Macleods Pharmaceuticals	2.52
304	Ankita Thakur	Eco Paryavaran Laboratories & Consultants	2.4
305	Amisha Gurung	Fitelo	2.5

306	Ishant Sharma	Ludhiana Beverages Pvt Ltd (Coca Cola)	2.6
307	Laiba Noor	Signicent	2.64
308	Parul	Haldivita	3
309	Puneet Rana	FICCI Research & Analysis Centre	2
310	Rajat Bains	SS Food Industries (Bonn Nutrients Pvt Ltd)	3
311	Shivani Yadav	Fitelo	2.5
312	Urvashi Uppal	Fitelo	2.5
313	Aviral Hooda	B9 Beverages (Birla 9)	7.3
314	Niharika	Shoolini University	2.59
315	Sanchit Gupta	Hector Beverages	3.73
316	Ashish Shandil	Akal Academy	2.16
317	Akash Malothra	Pontika Aerotech	2.5
318	Ambika Sharma	Panacea Biotech	3.5
319	Anchal Sharma	Torrent Pharma	1.56
320	Hardeep Kumar	Pontika Aerotech	2.5
321	Nikhil Kumar	Pontika Aerotech	2.5
322	Prachi Bhatnagar	Torrent Pharma	1.56
323	Rahul Jha	HRD Agro	3.5
324	Rashi Sharma	Dr. Reddy	3
325	Shaina Sharma	Torrent Pharma	1.56
326	Chanchal	Torrent Pharma	1.56
327	Shradha Vaishisth Krishan	IDS Infotech	3.6
328	Gunjan Thakur	Fitelo	3
329	Shivashish Rawat	Fitelo	4.5
330	Vaishali	Akal Academy	2.16
331	Ankita Sharma	Wrig Nano System	3.6
332	Dipan Maiti	Panacea Biotech	3.5
333	Himanshu Thakur	Pinnacle	4
334	Monika Mishra	Havells	2.5
335	Rohan	Shoolini University	3
336	Akruti Singh	Kandhari Group of Industries (Coca Cola)	2.6
337	Divanshi Rana	Danone Nutricia	3

338	Mohd Faiz	Fair Exports (India) Pvt. Ltd.	2.5
339	Muskan Chawla	Move Ahead Consultancy	3
340	Nimrat Kaur	AKD Consultant	3
341	Pallavi Sharma	Fitelo	2.5
342	Pratyaksh Sachan	Kandhari Group of Industries (Coca Cola)	2.04
343	Aayushi Dwivedi	ICICI Bank	8.29
344	Abhishak Sharma	Mercer	5.25
345	Abhishek Gupta	Piramal	5.9
346	Abhishek Kumar	Bajaj Finserv	9.5
347	Abhishek Rathore	Sundram Finance	4.3
348	Abhishek Sharma	Sundram Finance	4.19
349	Adarsh Thakur	Byju's	7.5
350	Aditya Kumar	Piramal	5.9
351	Ajay Kumar	Sundram Finance	4.3
352	Akhil Bharmoria	Sundram Finance	4.3
353	Akhil Josh	ICICI Bank	8.05
354	Akhilesh Jha	ICICI Bank	9
355	Akul Parmar	ICICI Bank	7.69
356	Alina Baxla	QM Bitz	2.64
357	Aman Chib	ICICI Bank	9
358	Aman Rana	Pharmaffiliates Analytics & Synthetics	3
359	Amrita Kaur	Jaro education	8.7
360	Ananya Mehta	ICICI BANK	8.5
361	Ansar Ahmad	ICICI Bank	9
362	Anshul Thakur	ZENITH TECH SOLUTIONS	3
363	Anshuman	Ceasefire	3.8
364	Aruj Sharma	Mercer (Marsh)	13
365	Ashima Batra	Shoolini University	3
366	Avtar Singh	HDFC BANK	4
367	Bharat Verma	ICICI Bank	9
368	Bhavika Sharma	Genpact	6
369	Chanchal	Bajaj Finserv	9.5
370	Deeksha Bansal	ICICI Bank	9
371	Deepali Thakur	ICICI Bank	9

372	Deepika Dahiya	Hindustan Unilever Limited	9
373	Dhruv Saini	TT Consultants (Xlscout)	6
374	Firdos	Bank of America	10
375	Gopal Singh	Piramal	5.9
376	Harshit Saxena	ICICI Bank	8.29
377	Haryansh Thakur	ICICI Bank	9
378	Hasan Masood	Lifestyle	5.5
379	Heena Aggarwal	Shoolini University	3
380	Hrithik Thakur	Airtel	5
381	Jatin Sharma	Sundram Finance	4.19
382	Jatin Thakur	ICICI Bank	9
383	Jitender	E-Clerx	7
384	Karan Badoga	Mercer	5.25
385	Kashish	ICICI Prudential	7.5
386	Lavanya Singh	ICICI Bank	9
387	Lokesh thakur	Byju's	7.5
388	Mahibub	Shoolini University	3
389	Mandavi Mishra	ICICI Bank	9
390	Mansi Upadhye	ICICI Bank	8.5
391	Mohit Kashyap	Bajaj Finserv	9.5
392	Mridul Thakur	ICICI Bank	9
393	Mukul Kapoor	ICICI Prudential	7.5
394	Mukul Tanwer	ICICI Bank	9
395	Muskan Thakur	ICICI Bank	9
396	Neeraj kumar	ICICI Bank	9
397	Nitin Sharma	E-Clerx	7
398	Nitin Tomar	ICICI Bank	9
399	Nitish Khajuria	Mercer	5.2
400	Nittin Rupta	Shoolini Life Sciences	3.5
401	Niyati Sehgal	Shoolini University	2.59
402	Palvi Pathania	ICICI Prudential	7.5
403	Paras Tudhial	ICICI Prudential	7.5
404	Pavarshi	ICICI Bank	9
405	Payal Bansal	Mercer	5.2
406	Piyush Tanwar	Bajaj Finserv	9.5
407	Pooja	ICICI Bank	9
408	Pooja Kumari	Byju's	7.5
409	Prem Chauhan	Sundram Finance	4.3

410	Pushpa Panwar	ICICI Bank	9
411	Radhika Tyagi	ICICI Bank	9
412	Rajat Tomar	ZENITH TECH SOLUTIONS	6
413	Rakesh Kumar	Sundram Finance	4.3
414	Ria Kashyap	ICICI Prudential	7.5
415	Ritul Kumar	ICICI Bank	9
416	Rupali Yadav	Shoolini University	3
417	Sahil Bhardwaj	ICICI Bank	9
418	Saijal Sahota	ICICI Bank	9
419	Sejal Lalchandani	Bajaj Finserv	9.5
420	Shalini Thakur	Shoolini University	3
421	Sharutika	Genpact	6
422	Shilpa Sharma	Ceasefire	5.2
423	Shivam Agrahari	ICICI Bank	9
424	Shivam Patel	Airtel	5
425	Shivani Sharma	Ultra Tech	7
426	Shourya Gautam	Ceasefire	5.2
427	Simi Bains	M1XCHANGE	6.5
428	Sonia Bharti	ICICI Bank	9
429	ishti Mehra	QM Bitz	2.6
430	Sujal Gupta	Piramal	5.9
431	Sukriti Thakur	ICICI Bank	9
432	Sumit Thakyal	Bajaj Finserv	9.5
433	Surbhi Sharma	ICICI Bank	9
434	Tarun Barwal	Piramal	5.9
435	Ujjawal Thakur	Mercer	5.2
436	Umang Netan	ICICI Bank	9
437	Umesh Kumar	ICICI Bank	9
438	Vidushi Bahri	ZENITH TECH SOLUTIONS	6
439	Vikas Bharmoria	ICICI Bank	9
440	Vikas Kaushal	ICICI Bank	9
441	Vishal Raj	ICICI Bank	9
442	Vishal Sharma	Byju's	7.5
443	Vishal Thakur	ICICI Securities	8.5
444	Vivek Kumar	ICICI Bank	9
445	Arsh Baliyan	ICICI Prudential	7.5
446	Ashish Goswami	E-Clerx	7
447	Ashu Sahu	Bajaj Finserv	9.5

448	Barandeep Singh	M1xchange	6.5
449	Jitender Singh	ZENITH SOLUTIONS TECH	6
450	Ritik Verma	ZENITH SOLUTIONS TECH	6
451	Anjali Thakur	Shoolini University	3
452	Anshika	Mercer	5.8
453	Rishabh Verma	Eclerx	2.41
454	Yogesh Kanwar	Code Brew	3
455	Rahul Chauhan	Himalayan Honda	2.4
456	Sakshi Thakur	Anand Trucking	2.4
457	Nimish Kumar	Anand Toyota	2.45
458	Abhay Chauhan	BAAN Retail and Hospitality	2.3
459	Harshita Arora	Anand Trucking	2.4
460	Brijesh Madhwal	Anand Toyota	2.45
461	Rakshita	Anand Toyota	2.45
462	Babita	BAAN Retail and Hospitality	2.3
463	Amisha Rana	Anand Toyota	2.45
464	Anika	Himalayan Honda	2.4
465	Youvan kapila	Anand Trucking	2.4
466	Dolly Thakur	BAAN Retail and Hospitality	2.3
467	Dechen Angmo	Anand Toyota	2.45
468	Navjot Sarna	Himalayan Honda	2.4
469	Prince Kanwar	Anand Trucking	2.4
470	Srishti Thakur	BAAN Retail and Hospitality	2.3
471	Kalash Dhanta	Anand Toyota	2.45
472	Prajwal Budhlan	Himalayan Honda	2.4
473	Shivand Thakur	Anand Trucking	2.4
474	Megha Chattanta	BAAN Retail and Hospitality	2.3
475	Atharv Singh Negi	Anand Toyota	2.45
476	Hritik Sharma	Himalayan Honda	2.4
477	Dakshita	Anand Trucking	2.4
478	Rijul Kumar Rana	BAAN Retail and Hospitality	2.3

479	Simran Chauhan	BAAN Retail and Hospitality	2.3
480	Shreya Joshi	Himalayan Honda	2.4
481	Tarushi Arora	Anand Trucking	2.4
482	Sudhanshu	Anand Toyota	2.45
483	Arjun Singh	Himalayan Honda	2.4
484	Aryan Chauhan	Anand Trucking	2.4
485	Anjali Verma	BAAN Retail and Hospitality	2.3
486	Aakarshit Dhillon	Anand Trucking	2.3
487	Pratibha Kanwar	Anand Trucking	2.4
488	Tushar attri	Anand Toyota	2.45
489	Amit Thakur	Himalayan Honda	2.4
490	Aakansha Thakur	Anand Trucking	2.4
491	Vanshika Mittal	Anand Trucking	2.3
492	Umesh Narula	Anand Toyota	2.45
493	Lavish Chauhan	Himalayan Honda	2.4
494	Bhart Sharma	Anand Trucking	2.4
495	Vibhore Attri	Anand Toyota	2.45
496	Nevedita Choudhary	Himalayan Honda	2.4
497	Tanya Chantola	Anand Trucking	2.4
498	Ashiv Kumar	Anand Toyota	2.45
499	Reshav Kundal	Anand Toyota	2.45
500	Sakshi Sharma	Anand Toyota	2.45
501	Urvashi	Anand Toyota	2.45
502	Kritika Sharma	Anand Toyota	2.45
503	Nikita Kumari	Anand Toyota	2.45
504	Arshia Dogra	Himalayan Honda	2.4
505	Khushboo Sharma	Himalayan Honda	2.4
506	Sakshi	Himalayan Honda	2.4
507	Tanisha Thakur	Himalayan Honda	2.4
508	Neha Sharma	Himalayan Honda	2.4
509	Raghav	Himalayan Honda	2.4
510	Damini	BAAN Retail and Hospitality	2.3
511	Rajeev Kumar	BAAN Retail and Hospitality	2.3
512	Yogesh Kanwar	BAAN Retail and Hospitality	2.3

513	Pranay Sharma	Anand Trucking	2.4
514	Anjali Thakur	Anand Trucking	2.4
515	Shreyush Sharma	Anand Trucking	2.4
516	Rishabh Verma	Anand Trucking	2.4
517	Anshika Mishra	Anand Trucking	2.4
518	Abhinav	Anand Trucking	2.4
519	Shruti Sharma	Anand Trucking	2.4
520	Madhav Bhagnal	Anand Toyota	2.4
521	Ankita Prasher	Anand Toyota	2.4
522	Anish Rana	Anand Toyota	2.4
523	Pratham	Anand Toyota	2.45
524	Kanupriya Sharma	Anand Toyota	2.45
525	Rohit Uttam	Anand Toyota	2.45
526	Vipul Thakur	Anand Toyota	2.45
527	Muskan Sharma	Himalayan Honda	2.4
528	Diksha Bhatia	Himalayan Honda	2.4
529	Vikrant Singh	Himalayan Honda	2.4
530	Atul Sharma	Himalayan Honda	2.4
531	Anirudh Rana	Himalayan Honda	2.4
532	Rijwal Rajta	Himalayan Honda	2.4
533	Nitin Sayal	Himalayan Honda	2.4
534	Kashika	Himalayan Honda	2.4
535	Khavaiya	Himalayan Honda	2.4
536	Disha	Shoolini University	2.59

5.3 Student Participation and Activities

5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter - university/state/national/international events

Name of the award/ medal	Team / Individual	Inter-university / state / National / International	Name of the event	Name of the student
#leadthechange	Individual	National	Lead the Change Campaign	Ananya Gupta
Stellarscape explore Hackathon(Track 3)	Individual	National	Stellarscape explore Hackathon	Aditya Kumar
7th National CU Media Fest 2023	Individual	Inter-University	7th National CU Media Fest 2023	Nihit Srivastava

Reel Making	Individual	Inter-University	7th National CU Media Fest 2023	Gautam Sukhija
Reel Making	Individual	Inter-University	7th National CU Media Fest 2023	Alice
Senior Korfball championship	Team	State	Senior Korfball championship	Anshul Kumar
Radio Jockey Competition	Individual	Inter-University	7th National CU Media Fest 2023	Deeksha
Certificate B	Individual	State Level	B Certificate exam	Aditya Rohilla
Certificate B	Individual	State Level	B Certificate exam	Sahil Kumar
Beat Presentation E-oral	Individual	National	2nd International conference on "Current advances in Pharmaceutical Industry and development"	Vivek Raj
Korfball Federation Cup	Team	National	Korfball Federation Cup	Vishal Sharma
Certificate C	Individual	National Level	C Certificate exam	Karan Panwar
Certificate C	Individual	National Level	C Certificate exam	Pryanka Devi
Certificate C	Individual	National Level	C Certificate exam	Sahil Thakur
Certificate C	Individual	National Level	C Certificate exam	Badal Bhardwaj
Certificate C	Individual	National Level	C Certificate exam	Shushant Kumar Pal
Certificate C	Individual	National Level	C Certificate exam	Abhay Sharma
Certificate C	Individual	National Level	C Certificate exam	Karan Veer Singh
Certificate C	Individual	National Level	C Certificate exam	Asmita Singh
VARCHAS'22	Individual	Inter university	VARCHAS'22	Priyam Srivastava

5.3.2 Sports and cultural events / competitions organised

Sr. No.	Date of event/competition	Name of the event/competition
1	04-06-2023 to 04-06-2023	World Bicycle Day

2	02-02-2023 to 03-02-2023	YouWeCan Cricket Tournament
3	14-10-2022 to 14-10-2022	YCC Induction for freshers
4	30-09-2022 to 30-09-2022	SVM Induction for freshers
5	26-09-2022 to 26-09-2022	Club Mela- Satrangji Strokes
6	03-10-2022 to 04-10-2023	Navratri Celebration by Satrangji Strokes
7	25-11-2022 to 25-11-2022	Tansen Ki Khoj- Saksham Dance Club
8	23-09-2022 to 23-09-2022	PG Meet & Greet- Saksham Dance Club
9	15-11-2022 to 15-11-2022	Introductory meet- Saksham Dance Club
10	15-08-2022 to 15-08-2022	Independence Day Celebration- Saksham Dance Club
11	02-10-2022 to 02-10-2022	Gandhi Jayanti Celebration- Saksham Dance Club
12	20-09-2022 to 20-09-2022	Club Mela- Saksham Dance Club
13	23-11-2022 to 23-11-2022	Workshop with Mr. Siddharth Basrur- RaagRang Club
14	26-09-2022 to 26-09-2022	RaagRang Introduction Meet
15	02-08-2022 to 02-08-2022	Orientation Program
16	24-08-2022 to 24-08-2022	Welcome of Korfbal Star Vishal
17	28-08-2022 to 28-08-2022	Cultural on DST STUTI
18	03-09-2022 to 03-09-2022	Shoolini Influencers Meet
19	13-09-2022 to 13-09-2022	Inter College Quiz Competition in Himachal Utsav
20	19-09-2022 to 19-09-2022	Induction for Undergraduate Students- Day 1
21	20-09-2022 to 20-09-2022	Induction for Undergraduate Students- Day 2
22	22-09-2022 to 22-09-2022	Induction for Postgraduate Students- Day 1
23	23-09-2022 to 23-09-2022	Induction for Postgraduate students- Day 2

24	23-09-2022 to 23-09-2022	Cultural Evening for Postgraduate Students
25	26-09-2022 to 26-09-2022	Hawan Ceremony for Navratri
26	01-10-2022 to 01-10-2022	RYLA Cultural at Shoolini
27	04-10-2022 to 04-10-2022	Faculty Celebration
28	05-10-2022 to 05-10-2022	Dussehra Celebration in Shoolini
29	06-10-2022 to 06-10-2022	Flash Mob for Manchtra
30	09-10-2022 to 09-10-2022	Musical Night- Shubham Surya
31	05-12-2022 to 05-12-2022	Cultural for Inspection Team
32	24-12-2022 to 24-12-2022	Christmas Celebration at Shoolini
33	01-05-2023 to 01-05-2023	First meeting of Cinedicate- the film-making club

5.4 Alumni Engagement

The Alumni Association at Shoolini University symbolizes a robust and interconnected community that significantly contributes to the institution's development. Established in 2015, the association actively engages with the university to foster a collaborative environment benefiting both current students and graduates. Every graduate being a member of alumni association, the association continues to make substantial contributions to various aspects of the university.

5.4.1 Alumni Portal and MOU with Alma Shines

In collaboration with Alma Shines, Shoolini University established a specialized portal to streamline alumni management and create an ever-growing community. This partnership focuses on:

Building a strong alumni database.

Facilitating regular communication and interaction.

Conducting engagement activities. Honouring alumni through awards. Promoting faculty-alumni collaboration.

Contributions of the Alumni Association

Alumni Meets and Chapters: The association organizes regular alumni meets, enabling the sharing of experiences, discussions, and collaborations. A series of organized chapters and events, including the 1st to 9th Alumni Chapters held between May 2015 and October 2021, foster this engagement. These meets include both in-

person and virtual meetings, ensuring continued connection regardless of geographical constraints.

Involvement in Curriculum and Placements: The alumni actively participate in curriculum development, offering suggestions to align it with industry needs. They also facilitate company invitations for placements through their professional connections, enhancing career opportunities for current students.

Impact and Significance

The active participation of alumni in Shoolini University's growth showcases their strong sense of belonging and responsibility that extends beyond their academic years. Through the Alumni Association, the university has succeeded in:

Creating platforms for continuous learning and growth.

Enhancing the institution's credibility and global recognition.

Supporting current students through mentorship, career development, and placement assistance. Fostering a sense of community and lifelong connection with the institution.

The multifaceted engagement of the Alumni Association with Shoolini University illustrates the profound impact that a committed alumni network can have on an educational institution. The association's efforts in career guidance, curriculum development, and community building significantly contribute to the university's mission and vision. The persistent connection, collaboration, and contributions from alumni underscore the strength and vibrancy of Shoolini University's academic culture and its future growth prospects.

The association's contributions through regular interactions, curriculum involvement, and placement support highlight the vital role alumni play in shaping the university's future. Their continued engagement ensures that Shoolini University remains a dynamic and forward-thinking institution, benefiting from the collective experiences and insights of its graduates.

Quantifiable Section

Alumni Chapters/ Meets Organized: 9.

Partnership with Alma Shines: MOU signed on September 6, 2019.

Active Involvement in Placements: Assisting in inviting companies for campus recruitment. Contribution to Curriculum Development: Regular feedback and suggestions from industry-aligned alumni

CHAPTER – VI

ACADEMIC ASPECTS

6.1 Curriculum Design and Development

Shoolini University offers dynamic curricula designed around the recommendations of statutory bodies and best practices around the world. It follows the Outcome-based Education (OBE) system through quality frameworks suggested by NBA, NAAC, NIRF, and some world-renowned bodies like THE and QS. The vision, mission, program outcomes (POs), programme specific outcomes (PSOs), and Course Outcomes (COs) are designed keeping in mind the most relevant and contemporary interdisciplinary, multi-disciplinary advancements. The curricula ensure that students acquire expertise in the latest technologies and relevant life skills.

One of the key drivers of framing POs and COs as well as the curriculum design at the global level are the United Nations' Sustainable Development Goals and Shoolini's focuses on themes of Clean Water and Sanitation, and Green and Clean Energy. The curriculum is also aligned to national initiatives like "Make in India", "Digital India", "Atmanirbhar Bharat", "Unnat Bharat Abhiyan", "Swachh Bharat" etc.

Industry priorities like Information and communication technology, Biodiversity and Environment Conservation, Agriculture and Horticulture, Entrepreneurship & Innovation, Bioinformatics, Food tech & safety, energy and nanotech are also taken into consideration.

Curricula is reviewed and revised by benchmarking with global and national HEI's. In addition, inputs are sought from Shoolini University's global advisory board which has reputed corporate professionals

and academicians. Industry alliances and partnerships help to keep the curriculum relevant to employability and contemporary skill sets. Feedback from all stakeholders like alumni, students and parents is also incorporated through regular Board of studies meetings.

To implement the curricula participatory learning activities like social extension, field projects, study tours, industrial internships, industry visits, case-based teaching, inter-school seminars, group discussions, presentations, coding hackathon etc. are part of the pedagogy. MOOCs through SWAYAM and other platforms like Coursera are also encouraged for learning content that comes from the best faculty globally and nationally. The University's faculty is regularly trained and developed through

FDP initiatives with AIU, AICTE, UGC, etc. Through the mandatory SPRINT Programs and Yogananda Guru Series of Lectures, students are exposed to prominent national and international experts. Strategic learning partnerships with technical companies like AWS, IBM, Ikgai, and ACCA as well as several MOUs with international and national universities give the students opportunities to learn from the best. The university's mission of "One student

One patent” and the presence of three externally funded incubators on campus provides them a chance to innovate. With its research focus, especially on the conservation of the Himalayan resources, as well as deep involvement with the surrounding community, the university remains committed to local concerns and issues.

6.1.1 Number of Programmes where syllabus revision was carried out during the year: 23

Sr. No.	Program name	Year of Introduction	Status of implementation of CBCS / elective course system (Yes/No)	Year of implementation of CBCS / elective course system
1	MSc Nutrition and Dietetics	2020	Yes	-
2	M.Pharmacy	2009	Yes	-
3	BALLB/LLB	2017	Yes	2015-16
4	BALLB/LLB	2017	Yes	2015-16
5	M.Sc. Botany	2015	Yes	-
6	M.Sc. Zoology	2015	Yes	-
7	B.Sc. (Hons) Zoology	2011	Yes	2015-16
8	BSc (Hons.) Botany	2014	Yes	2015-16
9	B. Tech Food Technology	2010	Yes	2015-16
10	B. Tech Biotechnology	2009	Yes	2015-16
11	BSc. Food Technology	2016	Yes	2015-16
12	MSc Food Technology	2013	Yes	-
13	B.Tech Bioinformatics	2021	Yes	2015-16
14	M.tech Food Technology	2013	Yes	-
15	BSc. Nutrition & Dietetics	2020	Yes	2015-16
16	B. Tech CSE	2009	Yes	2015-16

17	M.Sc Nutrition & Dietetics	2020	Yes	-
18	B.Tech. Civil Engineering	2011	Yes	2015-16
19	M.Tech. Civil Engineering	2014	Yes	-
20	B.Tech. Electrical Engineering	2013	Yes	2015-16
21	B.Tech. ECE	2009	Yes	2015-16
22	M.Tech. ECE	2013	Yes	-
23	Ph.D. ECE	2013	Yes	-

6.2 Academic Flexibility

6.2.1 New Courses introduced during the year: 89

Sr. No.	Name of Programme	Name of the courses offered under each program	Course Code
1	B Tech Biotechnology (Summit Research Program)	Methods and Techniques in Research	CSU 1136
2	B Tech Biotechnology	Animal Cell Biotechnology and its applications	CSU062
3	B Tech Biotechnology	Plant Tissue Culture and Plant Biotechnology	CSU066
4	B Tech Electrical Engineering	Network analysis & Synthesis	CSU1146
5	B Tech Electrical Engineering	Dynamic and Static Machines-I	CSU1181
6	B Tech Electrical Engineering	Current Applications of AI	CSU306
7	B Tech Electrical Engineering	Aptitude Development -III	CSU723
8	B.Tech Civil Engineering	Geographical Information System	CSU1249
9	B.Tech Civil Engineering	Cloud based Geospatial Analysis	CSU1415
10	B.Tech Civil Engineering	Geodesy and GPS	CSU1416
11	B.Tech Civil Engineering	Geoinformatics for Environmental Monitoring	CSU1417

12	B.Tech Civil Engineering	English Grammar for Employability	AIC21GE24
13	B.Tech Civil Engineering	Basics of Civil Engineering	CSU1007
14	B.Tech Civil Engineering	Airport Management and Tunnel Construction	CSU1050
15	B.Tech Civil Engineering	Environmental Hydrology and Irrigation Systems	CSU1098
16	B.Tech Civil Engineering	Offshore Structures	CSU1153
17	B.Tech Civil Engineering	Python Application Programming	CSU1162
18	B.Tech Civil Engineering	Sustainable Case Studies in Civil Engineering	CSU1171
19	B.Tech Civil Engineering	Sustainable Water Supply Management	CSU1173
20	B.Tech Civil Engineering	Remote sensing and Image	CSU1247
21	B.Tech Civil Engineering	Photogrammetry and Photo interpretation	CSU1400
22	B.Tech Civil Engineering	Drone and UAV Remote sensing	CSU1402
23	B.Tech Civil Engineering	Geospatial Analysis with Python	CSU1406
24	B.Tech Civil Engineering	Digital Photogrammetry	CSU1410
25	B.Tech Civil Engineering	Open sources GIS & Web Mapping	CSU1411
26	B.Tech Civil Engineering	Geoinformatics for Watershed Management	CSU1412
27	B.Tech Civil Engineering	Air borne & Terrestrial LiDAR	CSU1413
28	B.Tech Civil Engineering	GIS for Transportation Engineering	CSU1414
29	B.Tech Civil Engineering	Aptitude Development-VII	CSU726
30	B.Tech CSE	Logic Building with Computer Programming	CSU1128
31	B.Tech CSE	Living in the Digital	CSU952
32	B.Tech CSE	Front End Development Lab	CSU953
33	BA (Hons) English	HoNours - English	CSU1014
34	BA (Hons) English	Academic Writing	CSU1373

35	B Design	Principles of Design	CSU929
36	B Design	Elements of Design	CSU925
37	B Design	Intro. to Creativity in Design	CSU926
38	B Design	Freehand Sketching & Rendering	CSU927
39	B Design	Intro. to Solid Geometry Drawing- Perspective	CSU928
40	B Design	Introduction to Visual Communication- I (Animation)	CSU930
41	B Design	Materials & Process – I	CSU931
42	B Design	Introduction to Product Design	CSU932
43	B Design	Basic Electronics & Software (Studio)	CSU933
44	BCA	H/Ws and Office Automation Lab	CSU960
45	M Tech ECE	Mobile Communication & MIMO System	EC-506
46	M Tech ECE	Photonic Network	EC-507
47	M Tech ECE	Modern Communication System	EC-508
48	M Tech ECE	IC design using VLSI	EC-510
49	M.Tech Civil Engineering	Advanced Wastewater Treatment	CSU1008
50	M.Tech Civil Engineering	Environmental Hydrology	CSU1009
51	M.Tech Civil Engineering	Advanced Water Treatment	CSU1010
52	M.Tech Civil Engineering	Remote Sensing and Geographical Information Systems	CSU1250
53	M.Tech Civil Engineering	Optimization Methods	CSU1251
54	M.Tech Civil Engineering	Artificial Intelligence in Civil Engineering	CSU1252
55	M.Tech Civil Engineering	Advanced Fluid Mechanics	CSU1253
56	M.Tech Civil Engineering	Traffic Engineering and Transportation Planning	CSU1254
57	M.Tech Civil Engineering	Advanced Soil Mechanics	CSU1255

58	M.Tech Civil Engineering	Advanced Hydrology	CSU1256
59	M.Tech Civil Engineering	Water Resources Planning and Management	CSU1259
60	M.Tech Civil Engineering	Soil Dynamics	CSU1261
61	M.Tech Civil Engineering	Air and Noise Pollution Control Engineering	CSU1262
62	M.Tech Civil Engineering	Groundwater Engineering	CSU1263
63	M.Tech Civil Engineering	Urban Transportation Systems Planning	CSU1264
64	M.Tech Civil Engineering	Explorations and Field Testing	CSU1265
65	M.Tech Civil Engineering	Advanced Hydraulics	CSU1266
66	M.Tech Civil Engineering	Geometric Design of Transport Facilities	CSU1267
67	M.Tech Civil Engineering	Machine Foundation	CSU1268
68	M.Tech Civil Engineering	Environmental Impact Assessment	CSU1269
69	M.Tech Civil Engineering	Disaster Management	CSU1270
70	M.Tech Civil Engineering	River Mechanics and Sediment Transport	CSU1271
71	M.Tech Civil Engineering	Climate Change	CSU1272
72	M.Tech Civil Engineering	Design of Airport and Waterways	CSU1273
73	M.Tech Civil Engineering	Geoinformatics in Transportation Engineering	CSU1274
74	M.Tech Civil Engineering	Geo-Environmental Engineering	CSU1275
75	M.Tech Civil Engineering	Ground Improvement Techniques	CSU1276
76	M.Tech CSE	Probability Statistic and Queueing Theory	CSU956
77	MCA	Discrete Mathematics	CSU 107
78	MCA	Microprocessor	CSU 958
79	MSc Botany	Thallophytes & their Sustainable Utilisation	CSU1176

80	MSc Botany	Advances in Ecological Aspects	CSU1091
81	MSc Botany	Biomolecular Techniques	CSU1063
82	MSc DS	Fundamentals of Data Science	CSU959
83	PG Diploma in Journalism	Principles of Mass Communication	JMC101
84	PG Diploma in Journalism	Approaches to Corporate Communication	JMC102
85	PG Diploma in Journalism	Reporting for Print Media	JMC103
86	PG Diploma in Journalism	Broadcast Media	PGD 104
87	PG Diploma in Journalism	Social Project-I	PGD001
88	PG Diploma in Journalism	Basics of Advertising and Public Relations	PGD105
89	PhD ECE	Advanced Optical Communication	CSU1280

6.3 Curriculum Enrichment

Shoolini University adeptly integrates the core values of the National Education Policy (NEP) 2020 and the Sustainable Development Goals (SDGs) into its curriculum, which, inter alia, focuses on key areas such as professional ethics, gender equality, environmental sustainability, and comprehensive education.

Professional Ethics and Human Values: The university's curriculum includes specialized courses like Human Values and Ethics, Legal & Ethical Aspects of Engineering, and Business Ethics, which are essential for nurturing professional integrity and ethical decision-making. This commitment is reinforced by NEP 2020's emphasis on moral and ethical development and aligns with SDG 16, which promotes peace, justice, and strong institutions.

Gender Equality and Inclusivity: Courses like Gender Studies, along with guest lectures and workshops on gender equality and issues related to sexual harassment are in alignment with provisions of UGC guidelines. This approach also supports NEP's focus on eliminating disparities and promotes SDG 5, which strongly advocates for gender equality.

Environmental Sustainability: To foster environmental consciousness, the university offers courses like "Our Environment" and runs clubs like the Environment & Sustainability Club. It also houses research centers like the Research Centre in Disaster Management and the International Research

Centre of Nanotechnology for Himalayan Sustainability (IRCNHS). These initiatives help advance SDG 13 (Climate Action) by focusing on biodiversity conservation, pollution control, and climate change mitigation.

Research and Innovation: Shoolini University has established itself as a hub for research and innovation, with over 1500 IP's filed and over 132 patents granted with 276 industrial designs, 123 copyrights registered and 11 trademarks. Our mission of "one student- one patent" gets an extra fillip through courses on creativity and innovation where the students are required to come up with ideas for a patent as a part of the curriculum. Research centers such as the Centre of Excellence in Energy Science & Technology contribute to high-impact research, recognized by the Times Higher Education Impact Rankings 2024, which made it the 2nd best private university in India and also ranked No. 2 globally in SDG 6 (Clean Water and Sanitation) and No. 5 globally in SDG 7 (Affordable and Clean Energy).

Interdisciplinary Education and Lifelong Learning: Reflecting the NEP's goal of promoting interdisciplinary learning, the university offers programs like BBA-Computer Science and Entrepreneurship, B. Tech.-Bioinformatics, and MBA-Data Analytics & Artificial Intelligence. Open Electives and Foundation Courses covering a variety of topics, including Digital Age, Data science and Communication Skills, foster both academic and personal growth, ensuring students are well-prepared for future challenges and careers.

Global Citizenship and Multidisciplinary Approach: With diverse courses such as "Great Books", "Yoga for Wellness", Centre of Excellence in Language Learning, and opportunities for international exposure through 250+ international MoUs, Shoolini University promotes global citizenship and a multidisciplinary educational approach, preparing students to engage with and contribute to a globally interconnected society. Shoolini University's curriculum thus imbibes the spirit and principles of NEP 2020 and the SDGs and ensures that students are equipped with the necessary knowledge, skills, and values to navigate and contribute to a complex, rapidly changing world.

6.3.2 Number of value-added courses: 36

Sr. No.	Name of the value-added courses offered	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year
1	Basics of Biology	36 Hours	1	1
2	Basics of Mental Health & Clinical Psychiatry	24 Hours	24	19
3	Bioinorganic Chemistry	12 Hours	21	14
4	Bio interface Engineering	24 Hours	63	56

5	Biomass Conversion and Biorefinery	36 Hours	63	50
6	Cell Biology: Cellular organization, division and processes	24 Hours	73	15
7	Demystifying The Brain	12 Hours	80	57
8	Effective Writing	12 Hours	14	14
9	Emotional Intelligence	24 Hours	240	155
10	Enhancing Soft Skills and Personality	24 Hours	123	102
11	Environmental Impact Assessment	36 Hours	7	5
12	Enzyme Sciences and Technology	36 Hours	56	43
13	Human Molecular Genetics	12 Hours	63	50
14	Introduction On Intellectual Property To Engineers And Technologists	24 Hours	956	754
15	Introduction To Brain & Behaviour	24 Hours	8	4
16	Introduction to Modern Indian Political Thought	36 Hours	3	3
17	Introduction to Professional Scientific Communication	12 Hours	30	27
18	Introduction to Reliability Engineering	24 Hours	14	3
19	Introduction to World Literature	36 Hours	3	1
20	Literature, Culture and Media	36 Hours	9	5
21	Metabolic Engineering	24 Hours	63	49
22	Nanotechnology In Agriculture	24 Hours	41	21
23	Novel Technologies For Food Processing And Shelf Life Extension	36 Hours	49	27
24	Numerical Analysis	36 Hours	17	7

25	Privacy and Security in Online Social Media	36 Hours	45	19
26	Psychiatry - An Overview and How the Brain Creates Mind	24 Hours	11	8
27	Psychology of Stress, Health and Well-being	36 Hours	10	10
28	Research Methodology in Natural Sciences	36 Hours	2	2
29	Services Marketing: A Practical Approach	12 Hours	95	54
30	Simulation of Business Systems: An Applied Approach	24 Hours	10	2
31	Speaking Effectively	24 Hours	15	15
32	Technology transfer through joint venture	12 Hours	40	39
33	The Science of Happiness and Wellbeing	24 Hours	37	31
34	Thermal Physics	36 Hours	7	4
35	Understanding Design	12 Hours	1	1
36	Waste to Energy Conversion	24 Hours	92	68

CHAPTER-VII

Institutional Values and Best Practices

7.1.1 Institution has initiated Gender audit and measure for the promotion of gender equity.

Shoolini University is dedicated to creating a gender-friendly environment that supports a congenial learning atmosphere. The university proudly maintains a balanced gender ratio with approx. 45% female students and approximately 40% female faculty, ensuring equal representation in top leadership roles.

Curricular and Co-Curricular Activities

Gender Studies Course

An Open Elective/Minor course on 'Gender Studies' is offered to all undergraduate students. This course helps students identify and understand key issues related to gender bias and inequality. Through real-life case studies, students gain deeper insights into these social problems, their origins, and potential solutions.

Student Clubs and Group Activities

Shoolini University has established some student clubs for gender sensitization. "Prism" (Preservation and Promotion of Rights, Identity, Gender, and Sexuality through Manoeuvring and Motivating LGBTQIAP+ Youth), is a club which works towards societal transformation. The Red Taboos Club is all about removing myths, taboos related to menstruation around the society and helps educate girls, women, and the men.

Regular group activities are designed to foster gender sensitivity. Open discussions on taboo topics such as menstruation, breast cancer, unprotected sex, child abuse, and AIDS are encouraged to enhance comfort and awareness levels. Street plays, debates, and self-defense classes are organized, promoting awareness and inclusivity.

Sports and Fitness

Male and female students have equal access to sports facilities. Classes in self-defense, karate, and bodybuilding are available to all without gender restrictions, further promoting equality and empowerment. Girls and boys share common sports facilities like the gym, indoor games complex, and outdoor basketball and badminton courts.

Guest Faculty and Expert Lectures

Under the 'Guru Series', Shoolini invites renowned experts for interactive sessions. Notable sessions include impactful talks by Mx Dhananjay, the first transgender student at Punjab University.

Special Facilities for Women Employees

Creche

Shoolini University provides a fully furnished crèche for staff which offers food, recreation, and trained nannies for infants.

Security

All hostels ensure women's security with round-the-clock lady security guards. Lady attendants are available for accompanying female students for work or hospital visits etc. Residences of female students are manned by lady security guards 24x7.

Health

Free health camps which include special screenings and check-ups for female staff and students are organized. Doctors from leading hospitals are engaged for these check-ups. Generic medications are available on campus, especially in the hostels, at the Health Centre, and in the gym.

Counseling

A 24x7 lady counselor is accessible on campus for students and staff. Trained senior faculty members, part of a Counseling Cell, offer confidential sessions to those in need.

Maternity Leave and Working Mother Policy

The university provides fully paid maternity leave for 26 weeks along with a flexible working mother policy, to support working mothers.

Gender Equity Goals and Objectives

Gender equity goals and objectives are incorporated into all university policies and programs, ensuring that everyone feels safe and secure within the university's social setup. Shoolini University remains committed to promoting gender equity and creating an inclusive environment where every individual can thrive.

7.1.2 Facilities in the Institution

Effective waste management, through either disposal or recycling, is critical for any institution as it affects the health and environment of those on campus and in nearby communities. Shoolini University prioritizes providing a healthy and safe environment through comprehensive waste management systems.

a) Solid Waste Management: Solid waste at Shoolini University is managed through both in-house processes and outsourced services. The campus is equipped with over 650 color-coded bins for waste collection, each designated for specific types of solid waste:

- **Green Bins:** For biodegradable, organic waste such as food, vegetables, fruit, and leaves.
- **Blue Bins:** For recyclable waste like paper, cartons, cans, and metallic items.
- **Red Bins:** For non-degradable waste including glass, blades, expired medicines, and bandages.

Biodegradable waste is collected and processed into compost using vermicomposting. Pits of size 2 m x 0.75 m are filled over 6-8 days, and the composting process takes 45 days. The resulting vermicompost is utilized in the university's nurseries, agriculture farms, and research projects.

Non-biodegradable solid waste is collected and disposed of by authorized

agencies. The university collaborates with the local Municipal Committee to transport this waste to a designated dumping yard in Salogra, 18 km from the campus.

b) Liquid Waste Management:

- **Sewage Treatment Plants (STP):** The university operates two STPs with capacities of 350 and 50 kiloliters. These plants treat wastewater from various sources by removing toxic materials to prevent environmental harm. Treated sewage is reused for irrigation in landscaping and gardening within the campus.
- **Effluent Treatment Plant (ETP):** The ETP, with a 20,000-liter capacity, treats effluents from chemical sources and laboratories. This ensures that toxic and hazardous materials are safely managed, with the treated water being repurposed for landscaping and gardening.

c) Biomedical Waste Management: Non-degradable biomedical waste is managed through a contractual agreement with Enviro Engineers, Shimla, an organization authorized by the H.P. State Pollution Control Board. They handle up to 100 kg of biomedical waste per month, collecting and transporting it in color-coded bags to their treatment plant in Sandli/Pirdi every Tuesday and Thursday for final disposal.

d) E-waste Management: The management of electronic waste involves segregating and storing obsolete electronic items until they can be collected by authorized e-waste recycling agencies. This ensures the safe and responsible disposal of electronic components.

e) Waste Recycling System: Shoolini University has implemented a policy to minimize paper use, significantly reducing paper waste. Additionally, the university encourages recycling practices for various materials to promote resource conservation.

f) Hazardous Chemicals and Radioactive Waste Management: The institution ensures the safe management of hazardous chemicals and radioactive waste through specialized protocols and collaboration with authorized waste disposal agencies. This includes proper storage, handling, and disposal processes to mitigate environmental and health risks.

By employing these comprehensive waste management strategies, Shoolini University effectively minimizes its environmental impact while promoting sustainability and safety on campus and in the surrounding areas.

7.1.3 Water conservation facilities available

1. **Rainwater Harvesting:** Rain harvested and filtered rain water is used for gardening, lawn irrigation, and agriculture in a limited manner. Rainwater is collected and stored in underground tanks and used for harvesting. Protecting groundwater resources and treated water

facilities is part of the University's water conservation strategy. Extensive tree plantation has helped in improving underground water table which is beneficial to local population.

2. **Borewell Recharge:** University has 6 borewells which are installed and maintained at different locations across the campus and are the main source of water in the University. These borewells can provide 1 Lac litres of water to the University and Hostel Borewell installed nearby Aryabhata Hostel.
3. **Construction of tanks:** One mother water storage tank of capacity 4 lac litres has been constructed at the highest level of the campus in the Adventure Camp area to serve as a back-up resource at the time of scarcity of water. The water from this tank is supplied by a gravity-based system, making it a cost-efficient and maintenance free arrangement.
4. **Wastewater recycling:** An effective infrastructure of 2 Sewage Treatment Plants (STPs) of capacity 350 Kilo Liters per Day (KLD) and 50 KLD, respectively, is available in the campus. These are used for recycling of wastewater released from facilities across the campus. The wastewater gets treated through the Moving Bed Biofilm Reactor (MBBR) process which maintains the BOD, COD, TDS & pH values. The treated water is used for Horticulture and Flushing purposes, thereby saving nearly 50% of water by recycling.
5. **Water bodies & distribution system in campus:** There are two sources of water supply in the University. Drinking water is supplied by Irrigation Public Health (IPH) Department while domestic water for all other requirements is met through borewells across the campus at different locations. IPHD provides around 30 thousand litres of water per day for human consumption which is sufficient for the population of the University, while borewells can provide 1 lac litres of water per day.

In addition, there are natural and created water bodies in and around the campus which are tapped for distributing water for irrigation and harvesting purposes.

7.1.4 Green campus initiatives

Providing a green and healthy learning environment is a primary objective at Shoolini University. There is a strong commitment to maintaining a green environment on the campus and in the neighboring areas. The initiatives undertaken in this direction have been recognized by various prestigious bodies, including the Department of Higher Education, MHRD, Government of India. Notable recognitions include:

- **QS Sustainability Rankings 2024:** 579th globally in Overall, 112th globally in Environmental Sustainability.
- **THE Impact Rankings 2023:** Ranked No. 6 in India for SDG 6 Clean Water and Sanitation and No. 2 in India for SDG 7 Affordable and

Clean Energy.

- **SESREC Institution 2020:** Recognized as a Social Entrepreneurship, Swachhta & Rural Engagement Cell Institution.
- **Swachhta Rankings 2019:** Ranked No.1 in the State for achieving full ODF (Open Defecation Free) status in villages.
- **Swachh Campus 2018:** Institutional achievements in maintaining cleanliness.

Some of the key initiatives for greening the campus are as follows:

1. Restricted Entry of Automobiles:

- Strict control is enforced on the entry of automobiles within the campus. Only a limited number of vehicles are allowed to park on campus.
- A ban on vehicle entry between 9:00 a.m. and 5:00 p.m. is in place, with exceptions made only for essential duties.

2. Use of Bicycles/Battery-Powered Vehicles:

- While the hilly terrain is not conducive to the widespread use of bicycles, the campus encourages walking.
- Four battery-powered carts are used extensively for transportation within the campus, providing an eco-friendly alternative to traditional vehicles.

3. Pedestrian-Friendly Pathways:

- The campus features extensive footpaths that connect various facilities and buildings.
- Only one arterial road runs through the campus, while the rest are pathways.
- Special walking trails have been created for students to explore the campus and the adjoining forest areas, promoting physical activity and interaction with nature.

4. Ban on Use of Plastic:

- A strict ban on plastic use is enforced across the campus.
- Cleaning drives are periodically organized to raise awareness and promote the reduction of plastic use in and around the campus and neighboring villages.

5. Landscaping with Trees and Plants:

- Since the university's inception, extensive plantation drives have been conducted, resulting in the planting of over 15,000 saplings of various tree species, including Deodar and Oak.
- These drives are supported by the HPPWD and Forest Department, emphasizing the importance of tree plantation and maintenance.

6. Arboretum and tree plantation

- The university maintains an arboretum where students are encouraged to plant a tree with their name on it, fostering a sense of ownership and responsibility towards nature conservation.
- All visiting dignitaries are requested to plant a tree in campus

7. Flower Festival:

- An annual flower show held every March attracts people from Kasauli, Solan, and Shimla.
 - This event showcases the university's commitment to promoting biodiversity and environmental awareness by not only exhibiting different varieties of plants but also artifacts which are organic and eco friendly
- Shoolini University's green campus initiatives underscore its dedication to environmental sustainability and the creation of a healthy, green learning environment for its students and the wider community.

7.1.5 **Friendly, barrier free environment.**

Shoolini University is committed to providing a barrier-free and inclusive environment for all students, including those with disabilities. The university recognizes the importance of both physical and attitudinal components in creating an accessible and supportive environment. Here are the various components that contribute to a barrier-free campus:

a) Built Environment: The campus is designed to be accessible to all students, regardless of their physical abilities. Most buildings on campus are equipped with ramps and lifts, particularly in blocks G and H, ensuring that students with disabilities can move around easily. The lifts are designed with wide doors and ample space to accommodate wheelchairs and other mobility aids.

b) Divyangjan Friendly Washrooms: Shoolini University has made significant efforts to make its washrooms accessible to students with disabilities. Separate washrooms are equipped with wide doors, grab bars, and accessible toilets. Some washrooms also feature specialized amenities, such as adjustable showerheads and changing tables, to cater to diverse needs.

c) Signage Including Tactile Path, Lights, Display Boards, and Signposts: The university has taken steps to make its signage more accessible to students with disabilities. Clear and concise signage is available throughout the campus to raise awareness and guide students. Tactile paths have been installed to help visually impaired students navigate safely. These paths consist of raised bumps and ridges that can be felt underfoot, ensuring safe and independent mobility.

d) Assistive Technology and Facilities:

Shoolini University provides a range of assistive technologies and facilities to support students with disabilities, including:

Siqander.ai: This innovative AI solution can be used to take oral exams, providing an accessible assessment option for students with disabilities. It utilizes speech recognition and AI-driven feedback to facilitate a more inclusive examination process.

Mechanized Equipment: The university provides mechanized equipment, such as wheelchairs and motorized stair chairs, to assist students with

mobility impairments.

These initiatives reflect Shoolini University's commitment to creating an inclusive environment that supports the diverse needs of all students.

e) Provision for Enquiry and Information: Shoolini University's Disability office provides enquiry and information services to students with disabilities. The office assists students in accessing the university's accessibility features and services. Additionally, the office offers academic support, including tutoring and note-taking assistance. A dedicated disability support officer is available to help students with various needs, ensuring they receive the necessary support and accommodations.

Staff Training and Awareness: Beyond physical infrastructure, the university emphasizes the importance of attitudinal components. Staff members receive training to raise awareness about disability issues, ensuring they are equipped to provide appropriate support and create an inclusive environment.

By implementing these comprehensive measures, Shoolini University ensures that all students, including those with disabilities, have equal access to educational opportunities and campus facilities. The university's commitment to inclusivity and accessibility is evident in its continuous efforts to improve and expand its barrier-free environment.

7.1.6. Institutional efforts/initiatives in providing an inclusive environment

Shoolini University is committed to fostering an inclusive environment characterized by tolerance and harmony towards all cultures, nationalities, languages, and socio-economic communities. The student body is made up of students from almost all states across India and many from abroad. Some initiatives that drive inclusiveness and diversity are:

Fostering an Inclusive Onboarding Experience:

- **Buddy System:** From the first day, new students are welcomed into the Shoolini family through a Buddy system, where a senior student helps the newcomer acclimate to the campus environment.
- **Week of Welcome:** Induction week, known as the Week of Welcome, is thoughtfully designed to break barriers and promote connections across diverse socio-economic and cultural backgrounds. This initiative helps students feel at home and fosters an atmosphere of collaboration and mutual respect.

2. Encouraging Multicultural Diversity:

- **Cultural Cafes:** Organized by the Office of International Affairs each semester, Cultural Cafes allow students from different nations to share their unique cultural identities through traditional costumes, food, music, and dance. These immersive experiences deepen understanding and appreciation for global perspectives, strengthening bonds between Indian and international students.

3. Celebrating Important Cultural and Social Days:

- **Events and Observances:** By observing events like World Hindi Day,

International Women's Day, International Girl Child Day, and Human Rights Day, the university fosters awareness of global and social issues. Activities such as debates, group discussions, street plays, and role plays enhance students' understanding and instill a sense of unity and tolerance.

- **Festivals:** Festivals of religions are celebrated on campus with equal fervor and enthusiasm

4. **Clubs and Societies for Holistic Development:**

- **Student Clubs:** 27 clubs, such as 'Raagrang' for music, 'Saksham Dance Club' for dance, 'Bodh Quiz Club' for quizzes, and 'Saamarthya' for entrepreneurship, allow students to explore their interests and talents beyond academics. These clubs, under the banner of 'Abhiruchi', offer platforms for students to embrace their individuality and connect with others who share similar passions.

5. **Recognition of Diversity as a Strength:**

- **Celebration of Diversity:** At Shoolini, diversity is not merely tolerated but celebrated as a strength. It fosters creativity, enriches educational experiences, and promotes empathy and understanding. Institutional policies ensure that everyone, regardless of cultural, regional, linguistic, communal, or socio-economic differences, is treated with respect and dignity.

In conclusion, Shoolini University actively cultivates an inclusive environment where diversity is seen as a valuable asset. Through well-crafted programs, events, and policies, we enable students to thrive in an atmosphere that respects differences and encourages a spirit of collaboration and empathy. These initiatives reflect our strong belief in the power of diversity to enhance education and foster a more compassionate and tolerant community.

7.1.7. **Sensitization of students and employees of the Institution to the constitutional obligations**

Shoolini University is deeply committed to sensitizing its students and employees to the constitutional obligations, including the values, rights, duties, and responsibilities of citizens. The institution undertakes various activities to inculcate these values, ensuring that members of the university community are responsible citizens who contribute positively to society. Here are some of the key initiatives:

1. **Constitutional Awareness Programs:**

- **Workshops and Seminars:** Regular workshops and seminars are conducted to educate students and staff about the Constitution of India, fundamental rights, duties, and the democratic framework. These sessions are often led by legal experts and academicians who provide in-depth knowledge and practical insights.
- **Guest Lectures:** Distinguished guests, including retired judges, legal

scholars, and constitutional experts, are invited to deliver lectures on various aspects of the Constitution and its relevance to everyday life.

2. Celebration of National Days:

- **Republic Day and Independence Day:** The university celebrates Republic Day and Independence Day with great fervor. These events include flag hoisting, patriotic speeches, cultural performances, and discussions on the significance of these days. Such celebrations instill a sense of national pride and constitutional values among students and staff.
- **Constitution Day:** Observed on November 26th, Constitution Day is marked by activities such as reading the Preamble, debates, essay competitions, and quizzes centered around the Constitution of India.

3. Legal Literacy and Awareness:

- **Legal Aid Clinics:** The university runs legal aid clinics to provide free legal assistance to the underprivileged sections of society. Law students actively participate in these clinics, gaining practical experience while serving the community.
- **Legal Awareness Camps:** Camps are organized in nearby villages and towns to educate citizens about their legal rights and responsibilities. These camps cover topics such as consumer rights, women's rights, and the right to education.

4. Civic Engagement and Social Responsibility:

- **Community Service:** Students are encouraged to engage in community service and social outreach programs. Activities include cleanliness drives, tree plantation, health camps, and literacy programs in rural areas.
- **NSS and NCC Units:** The National Service Scheme (NSS) and National Cadet Corps (NCC) units at Shoolini University play a vital role in promoting civic engagement and social responsibility. These units organize various activities such as blood donation camps, disaster management drills, and awareness campaigns on social issues.

6. Courses on Legal awareness and Values Value Education Courses:

- The curriculum includes courses on ethics and values, which cover topics like honesty, integrity, respect for diversity, and social justice. These courses aim to develop a strong moral foundation among students.
- "Fundamentals of Law" is offered as an Open Elective subject,

6. Promoting Diversity and Inclusion:

- **Cultural Festivals:** The university celebrates various cultural festivals, promoting an understanding and appreciation of India's rich cultural diversity. These festivals include Diwali, Christmas, etc. fostering communal harmony and respect for different traditions.
- **Inclusive Policies:** Policies and practices at Shoolini University ensure that there is no discrimination based on caste, creed, gender, or economic background. The institution promotes inclusivity and equal opportunities for

all.

7. Leadership and Personal Development:

- **Leadership Programs:** Various leadership development programs and workshops are conducted to instill leadership qualities and a sense of responsibility among students. These programs emphasize the importance of ethical leadership and service to society.
- **Mentorship and Counseling:** The university provides mentorship and counseling services to guide students in their personal and professional development, emphasizing the importance of being responsible and ethical citizens.

Through these initiatives, Shoolini University ensures that its students and employees are well-informed about their constitutional obligations and are equipped to contribute positively to society as responsible citizens.

7.2. Best Practices

Best Practice 1

1. **Title of the Practice:** Leveraging Digital Tools to Create a More Personalized and Efficient Learning Experience
2. **Objectives of the Practice:**
 - Provide students with diverse learning materials tailored to their needs and interests.
 - Create dynamic and engaging learning environments encouraging active learning and cooperation.
 - Monitor student development to identify areas needing further assistance.
 - Personalize each student's learning experience based on their unique strengths and weaknesses.
 - Make learning more effective by automating procedures and providing on-demand access to information.
 - Foster better communication and collaboration among students, teachers, and parents.
 - Make the learning environment more interesting and motivating.
3. **The Context:** Shoolini University aimed to establish itself as a cutting-edge institution by leveraging advanced technology. Despite limited financial resources, the primary goal was to enhance the academic experience and outcomes for all stakeholders. An in-house team comprising of students and faculty of Computer Science Department developed a student ERP system and an app for students. Recognizing the challenges faced by students from rural areas, Shoolini implemented Siqander.ai, a technology-driven solution to bridge the gap and improve employability prospects. During Covid the challenge of conducting assessments was tackled by in-house development of an online proctored system for exams
4. **The Practice:** Shoolini University employs various technological tools to

enhance the academic experience, streamline administrative operations, and equip students with essential skills:

A) myShoolini App:

Registration and course enrolment for students- Includes choosing elective courses

Automatic Facial recognition and GPS based Attendance: Simplifies and ensures accuracy in attendance tracking.

Individual Timetable: For both students and faculty to manage time effectively.

Online Library Management: Facilitates efficient book issue and return processes.

eUniv Platform: LMS which provides access to teaching materials, including PPTs and video lectures.

MIS Reports: Offers data-driven insights for administrative optimization.

GPS-Enabled Vehicle Tracking: Used for bus campus and ensures safety with real-time tracking.

Geo-Tagging of Planted Trees: Demonstrates commitment to sustainability

B) Book my Exam: Simplifies examination procedures by allowing students to choose exam slots and venues

C) Siqander.ai:

Enhances interview skills through AI-driven speech analysis, providing personalized feedback and coaching.

Evidence of Success:

myShoolini App: Achieved accurate attendance records, a substantial increase in book borrowings, improved student satisfaction, and enhanced transport efficiency.

Book my Exam: Resulted in positive feedback from students, with more than 80% of students finding it convenient and ~75% of students able to book convenient slots of their choice.

Siqander.ai: Improved interview success rates, and boosted communication skills.

5. Problems Encountered and Resources Required:

Initial user adoption issues were resolved with training.

Connectivity issues were resolved by hosting the app on Amazon Web Server, achieving full connectivity up to 100%.

Best Practice 2

1. **Title of the Practice:** Promoting Environmental Sustainability through Green Initiatives

2. **Objectives of the Practice:**

sustainable campus with reduced environmental footprint.

Foster environmental awareness and responsibility among students and staff.

Implement sustainable practices in campus operations.

Enhance the green cover and biodiversity on campus.

3. **The Context:** Shoolini University is located in a region with rich biodiversity and scenic beauty. The institution recognizes its responsibility to preserve the environment and promote sustainability. By integrating green initiatives into campus life, the university aims to set an example for environmental stewardship.

4. **The Practice:**

Green Campus Initiative: Restricted entry of automobiles, use of battery-powered vehicles, pedestrian-friendly pathways, and a ban on plastic use.

Waste Management: Effective solid, liquid, biomedical, e-waste, and hazardous waste management practices.

Energy Conservation: Use of solar panels and energy-efficient lighting systems.

Water Conservation: Implementation of rainwater harvesting and water recycling systems.

Biodiversity Conservation: Regular plantation drives and maintenance of green spaces and arboretum.

Evidence of Success:

The campus has significantly reduced its carbon footprint through various sustainability measures.

Increased green cover with over 15,000 saplings planted.

Successful implementation of waste management practices.

Recognition in various sustainability and environmental rankings.

Problems Encountered and Resources Required:

Initial resistance to change from the campus community was addressed through awareness programs.

Financial constraints in implementing some green technologies were mitigated through external funding and grants.

These best practices reflect Shoolini University's commitment to leveraging technology for personalized learning experiences and promoting environmental sustainability.