Shoolini University

ACADEMIC AND ADMINISTRATIVE AUDIT REPORT

2020-21

Shoolini University of Biotechnology and Management Sciences,
Village Bhajol, P.O. Sultanpur,
Dist. Solan, H.P, Pin 173229
Academic & Administrative Audit (AAA)

Audit Title	Audit Details
Academic Audit & Administrative Audit 2020-21	Audit information for Academic Year 2020-21

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PART A	
Data of the Institution	
1. Name of the Institution	Shoolini University of Biotechnology and Management Sciences
Name of the head of the Institution	Prof. Atul Khosla
Designation	Vice Chancellor
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	01792308000
Mobile no.	8219743565
Registered Email	iqac@shooliniuniversity.com
Alternate Email	vc@shooliniuniversity.com
City/Town	Solan
State/UT	Himachal Pradesh
PIN Code	173229
2. Institutional Status	
University	Private
Type of Institution	Co-Education
Location	Rural
Name of IQAC Co-ordinator/ Director	Ms. Varsha Patil
Phone no/Alternate Phone no.	01792-308000
Mobile no.	9857550999
IQAC e- Email address	iqac@shooliniuniversity.com
Alternate Email address	varshapatil@shooliniuniversity.com
3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	https://shooliniuniversity.com/iq ac
4. Whether Academic Calendar prepared during the year	Yes
if yes, whether it is uploaded in the institutional website: Weblink:	https://shooliniuniversity.com/pd f/Academic-Calendar-2020-2021.pdf

5.   Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	**Period To**
Cycle 1	B++	2.92	2016	16-Dec-2016	15-Dec-2021

6.   Date of Establishment of IQAC: 26-Dec-2014

7.   Provide the list of Special Status conferred by Central/ State Government-UGC/ CSIR/ DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.
The institution is awarded with two special schemes Skill Vigyan Program, and Skill Development for Science internship program INSPIRE by Govt agencies.

8.   Whether composition of IQAC as per latest NAAC guidelines: Yes

9.   Number of IQAC meetings held during the year: 4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website: Yes

(Please upload, minutes of meetings and action taken report)

10.   Whether IQAC received funding from any of the funding agency to support its activities during the year? NO

11.   Significant contributions made by IQAC during the current year (maximum five bullets)

https://shooliniuniversity-my.sharepoint.com/:b:/p/iqac/ETk5MmyxOslO uMCoGUMmRVgBll_U9ixiR_H-iVFfHhTqUg?e=RRpGtp

12.   Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

Several activities for quality enhancement and outcome have been planned including MOOOCs, Young Researchers Program, Centre of Excellence for Direct Selling in Academics, Career Counselling Series, IBM BOOT Camp, BOSCH Industry Academia Partnership, Coaching Program, Yogananda Career Academy etc.

13.   Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning | No |

14.   Whether institutional data submitted to AISHE

Year of Submission | **2022** | Date of Submission | **31-03-2022** |

15. **Multidisciplinary / interdisciplinary**
    Choice based credit courses were incorporated including Minor subjects. A component of interdisciplinary courses like Functional English, Living in the Digital age, scientific and mathematical reasoning, creativity and innovation, Great books of the world etc. are also offered.

16. **Academic bank of credits (ABC):**
    The institution follows Academic bank of credits via NAD digilocker and below classification is applied:
    Exit after 1 year- certificate
    Exit after 2 year- Diploma
    Exit after 3 year- Degree
    Exit after 4 years- Degree with Hons/ Research

17. **Skill development:**
    As part of the skill development program the institution offers various minor courses as choice-based electives. Internships and workshops on research methodologies, IPR, coding etc. are also incorporated in the curriculum.

18. **Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)**
    The institution has integrated the ancient Indian knowledge system into its curriculum through its School of Yoga that runs minor courses in Sanskrit and Hindi, an affiliation with "Little Guru" for Sanskrit learning, and its Centre of Theology dedicated to ancient Indian cultural teaching.

19. **Focus on Outcome based education (OBE): Focus on Outcome based education (OBE):**
    The university is focused on outcome-based education through the alignment of all its Pos towards the university's vision and mission.

20. **Distance education/online education**:
    Numerous programs have been offered to the students as part of the distance or online education system including Swayam courses, coursera licensing, and tie-up with IBM skill academy.

Part B
CRITERION – I
CURRICULAR ASPECTS

1.1 Curriculum Design and Development

The university offers a well-defined curriculum that is updated and upgraded from time-to-time based on the latest developments in society with the fundamental aim to impart knowledge, attitude, and life skills to students.

Shoolini follows an extensive 360-degree process for curriculum review:

The university employs a 360 degree approach for curriculum review that includes benchmarking with reputed institutions, interdisciplinary approach to courses, feedback from industry-alumni, expert perspective from the board of studies, statutory body guidelines, exclusive SPRINT program, skill certifications, signing of MoUs leading to exchange of students and teachers, publications and patents.

1.1.1 Number of Programmes where syllabus revision was carried out during the year

Revision of syllabi has been carried out for several major courses across all disciplines including B. Tech, M. Tech, B.Sc., M.Sc., BBA, MBA, BA, and PhD in the year 2020-2021.

1.1.2 Total number of courses having focus on employability/ entrepreneurship/ skill development offered by the University during the year

1.1.2.1 Number of courses having focus on employability/ entrepreneurship/ skill development during the year: 423

The curriculum has been incorporated with courses that has a focus on skill development, entrepreneurship, and employability. These courses fall majorly into gender-based, human values based, and professional ethics-based classification and courses include the following:

1.2 Academic Flexibility

1.2.1 Number of new courses introduced of the total number of courses across all programs offered during the year: 98

The curriculum has been upgraded with new courses that are skill based and promote entrepreneurship including majorly research methodology, artificial intelligence, pharma marketing management, pharmacovigilance, computer aided drug design, cosmetic science, phytochemistry, Indian system of medicine, bio business management and IPR, research, basic nutrition, food microbiology, spices and herbs, sports nutrition, introduction to sociology, business law, business statistics, and cost accounting.

1.2.2 Number of Programmes in which Choice Based Credit System (CBCS)/elective course system has been implemented during the year: 59

Various elective courses have been included in the major course curricula of the university including B.Sc., M.Sc. botany, chemistry, zoology, food technology, microbiology, M. Pharmacy, B. Tech, M. Tech biotechnology, food technology, microbiology, CSE, Civil, PhD CSE, and MA English literature.

1.3   Curriculum Enrichment

1.3.1   Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

The university has implemented courses that are socially relevant, and these are included in areas like Professional Ethics, Gender, Human Values, Environment and Sustainability. The institution also integrates crosscutting issues including social projects on health, muscular dystrophy, waste management etc., university's green policy carried out via center in renewable energy.

1.3.2   Number of value-added courses for imparting transferable and life skills offered during the year: 40

Shoolini University has also incorporated numerous value-added courses in its curriculum which provide students with significant life skills and some of these include values and ethics, digital marketing, network marketing, introduction to psychology, law in daily life, sex education, food and nutrition, drug abuse, Himalayan biodiversity, biology of human body, yoga in daily life, practical farming, etc.

1.3.3   Total number of students enrolled in the courses under 1.3.2 above

1.3.3.1 Number of students enrolled in value-added courses imparting transferable and life skills offered during the year 2020-2021: 3562

1.3.4   Number of students undertaking field projects / research projects / internships during the year

871 students of various courses have obatined internships with industry or academia as well as in various research projects.

1.4   Feedback System

1.4.1   Structured feedback for design and review of syllabus:

A successful structured feedback system has been set up at the university website to obtain semester/year-wise feedback from students, teachers, employers, and parents.

1.4.2 - Feedback processes of the institution may be classified as follows:

The feedback collection process involves the following responses:
- Feedback collected, analyzed and action taken and feedback available on website
- Feedback collected, analyzed and action has been taken
- Feedback collected and analyzed
- Feedback collected
- Feedback not collected

CRITERION-II

TEACHING-LEARNING AND EVALUATION

2.1   Student Enrolment and Profile available

2.1.1   Demand Ratio

2.1.1.1 Number of seats during the year:

No of seats available/ sanctioned have been verified with the no. of students admitted (1402) and was found to be 1475 across all the disciplines of the university in tear 2020-21.

2.1.2   Total number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per applicable reservation policy during the year (Excluding Supernumerary Seats)

2.1.2.1 Number of actual students admitted from the reserved categories during the year:
No of students admitted under reserved category were 298 (SC), 138 (ST), 375 (OBC) and 2918 (Gen) in year 2020-21.

2.2   Catering to Student Diversity
2.2.1   The institution assesses the learning levels of the students and organizes special programs for advanced learners and slow learners

Shoolini has implemented pivotal measures and special academic programs for advanced, medium, and slow learners as Flip Classroom, EdX courses, Coursera courses, Live/other projects, assignments, participation in symposiums, presentations, research papers, patent writing, Proficiency Test in English, Foundation/ Refresher courses in Physics, Chemistry, Math, Biology and Remedial Courses. Students are encouraged to learn on NPTEL/ MOOC & NISM platforms.

2.2.1 : The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners:
Performance of the students are assessed under special programs as Summit Research Programs, Writing Seminar, EdX, coursera and V Empower courses.

2.2.2 - Student - Full time teacher ratio during the year

Number of Students	3729
Number of Teachers	227

2.3 Teaching- Learning Process

2.3.1   Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences
University has widely adopted a pedagogy which is essentially aligned with Bloom's Taxonomy. The faculty was trained to teach and take lectures mostly on Application (Experiential), Analysis (Participative) and Creation (Problem-solving) levels of taxonomy levels.

2.3.1.1 Teachers use ICT enabled tools including online resources for effective teaching and learning processes during the year

Shoolini University is frontrunner in the field of using ICT enabled tools and online resources for improving the quality of education and effective teaching including tools like eUniv, MOOCs, myShoolini, DELNET, EBESCO, ZOOM etc.

2.3.2   Ratio of students to mentor for academic and other related issues during the year

2.3.2.1 Number of mentors:
The curriculum of the students are empowered with Student-Mentorship program where around 159 mentors are deputed for effective outcome.

2.4   - Teacher Profile and Quality

2.4.1 - Total Number of full-time teachers against sanctioned posts during the year:

Total no of full-time teachers against sanctioned posts during year 2020-21 has been found to be 227.

2.4.2 - Total Number of full-time teachers with Ph.D./D.M/M.Ch./D.N. B Super specialty/ D.Sc./ D'Lit. during the year:

Total no of full-time teachers with Ph.D./D.M/M.Ch./D.N.B Super specialty/ D.Sc./ D'Lit. during the year has been found to be 139.

2.4.3   Total number of full-time teachers who received awards, recognition, fellowships at State, National, International level from Govt/Govt. recognized bodies during the year: 13

2.5   Evaluation Process and Reforms 2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year: 10

2.5.1.1 Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the year:
Detail about the date of declaration of results from the last exam has been presented and the duration falls between 5- 14 days across all the courses.

2.5.2   Total number of student complaints/grievances about evaluation against total number appeared in the examinations during the year: Total no of student complaints/ grievances is found to be zero (0).

2.5.3 - IT integration and reforms in the examination procedures and processes (continuous internal assessment and end-semester assessment) have brought in considerable improvement in examination management system of the institution:

A continuous evaluation system incorporated with automated exam system, eUniv LMS and online Proctored mode of examination is noted.

2.5.4   Status of automation of Examination division along with approved Examination Manual.

100% automation of Examination Management System (EMS) is observed.

2.6 Student Performance and Learning Outcomes

2.6.1 **The institution has stated learning outcomes (generic and programme specific)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents:**

It is noted that the University incorporates all Programme Outcomes (PO), Programme Specific Outcomes and Course Outcomes (CO) in curricula and display on own e-Learning portal called eUniv to provide access to all stakeholders. Course booklets with syllabi, learning outcomes, lecture schedules, references, and evaluation criteria, etc., too are posted on eUniv. An important tool of assessment, Bloom's Taxonomy is used along with other modes of assessment, case study, group discussions, breakout rooms, discussion forums, videos, live industry examples etc.

2.6.2 **Attainment of Programme outcomes, Programme specific outcomes and course outcomes are evaluated by the institution during the year:**

An attainment in results of the outcomes drive and redesigning of programme Learning outcomes are noted through improved pass percentage and fewer dropouts. Student' success in competitive exams like UPSC, HAS, NET, SLET, GATE, GRE, GPAT etc are also noted along with PhD and Post Doc scholarships.

2.6.3 **Number of students passed during the year**

2.6.3.1 **Total number of final year students who passed the university examination during the year:**

Total no. of students passed in final sem/ year is found to be 1079 with pass percentage: 97.38%.

2.7 **Student Satisfaction Survey**

2.7.1 **Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a web link):**

A student satisfaction survey has duly been observed under the audit.

CRITERION-III
RESEARCH, INNOVATIONS AND EXTENSION

3.1   Promotion of Research and Facilities

3.1.1   The institution Research facilities are frequently updated and there is well defined policy for promotion of research which is uploaded on the institutional website and implemented

Shoolini University is located in the lap of a benign Himalayan ecosystem, the research agenda is focused on the economic and sustainable development of the Himalayan region. Shoolini University is committed to always providing quality research infrastructure facilities to the faculty members and research students. To keep up with the global research pace, Shoolini University has created several Research Centers and state of the art research infrastructure facilities are available with the centers Based on the upgradation requirements of various research centers and departments infrastructure grants have been provided every year. In addition to the infrastructure grants Shoolini University also provides start-up grants to the faculty members to initiate their own research. Shoolini University has been investing substantially to its Yogananda knowledge Center by subscribing to various research and support databases like EBSCO and DELNET to access research publications, SciVal for research data analysis. IBM-SPSS for statistical data analysis, URKUND for plagiarism to name a few.

3.1.2   The institution provides seed money to its teachers for research (amount INR in Lakhs):

During 2020-21 the institution has provided a seed money of Rs 51.16 lakh to the researchers for various research projects.

3.1.3   Number of teachers receiving national/ international fellowship/financial support by various agencies for advanced studies/ research during the year.

During academic year, 9 faculty members from different Schools received national/ international financial support from various agencies for research. The total grant sanctioned and received during the academic year was Rs 42.6 lakh.

3.1.4 - Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the year:

During academic year JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other fellows were enrolled for the 2-3 years in the institution in different schemes of Department of Science and Technology, Govt. of India, National Mission on Himalayan studies, Science and Engineering Research Board under the Department of Science and Technology, Government of India, Himachal Pradesh Council for Science Technology and Environment (HIMCOSTE) and Lancaster University.

3.1.5   Institution has the following facilities to support research Central Instrumentation Centre Animal House/Green House Museum Media laboratory/Studios Business Lab Research/Statistical Databases Moot court Theatre Art Gallery

During the academic year the institution has developed various facilities such as MS Swaminathan Gallery, CV Raman Gallery

3.1.6   Number of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other recognitions by national and international agencies during the year; 5

During the Academic year, 5 different schools such as School of Biotechnology, School of Biological and Environmental Sciences, School of Advanced Chemical Sciences, School of

Physics and Material Science, School of Business Management and Liberal Arts received the recognition from Government of India under the Skill Vigyan Program and Skill Development for Science internship program- INSPI RE with a total funding of Rs 22.03 lakh.

3.2   Resource Mobilization for Research

3.2.1   Extramural funding for Research (Grants sponsored by the non-government sources such as industry, corporate houses, international bodies for research projects) endowments, Chairs in the University during the year (INR in Lakhs);

The total grant sanctioned during the academic year was ₹ 1.11 lakh from the COVID-19 High Performance Computing Consortium to the School of Pharmaceutical Sciences.

3.2.2   Grants for research projects sponsored by the government agencies during the year (INR in Lakhs).

The total grant sanctioned during the academic year was ₹ 27.77 lakh from various government agencies such as HIMCOSTE, Department of Environment, Science and Technology, INMAS, Science and Engineering Research Board, National Mission on Himalayan Studies etc. during the year 2020-21.

3.2.3 - Number of research projects per teacher funded by government and non-government agencies during the year: 0.04

During the academic year 10 different projects have been funded by different government and non-government agencies to the faculty members of School of Advance d Chemical Sciences, School of Biotechn ology, School of Physics and Materials Science, School of Pharmaceutical Sciences and School of Biologic al and Environ mental Sciences with a total amount of Rs. 31.52 lakhs. So, the number of research projects per teacher is 0.04.

3.3   Innovation Ecosystem

3.3.1   Institution has created an eco-system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge.

The following clubs/centres have been established in the university during the last academic year:

S. No.	Name of the club or center
1	Samarthya entrepreneurship club
2	Innovation-cum-incubation center called "Steve Jobs Incubation Centre"
3	IPR cell of Shoolini university
4	Innovative Technology Business Incubation Centre (BI) No.108

In addition, the students of Shoolini University also participate in various startup competitions, winning incubation awards on different platforms. Two of our scholars Amanpreet Kaur Virk and Aliya Ali received an award of 10 Lacs for presentation of use of moringa seeds to purify water using small and inexpensive kits similar to tea bags in INDIA INNOVATION GROWTH PROGRAM 2.0.

3.3.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year; 51

During the Academic year, 51 different workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development.

3.3.2.1 Number   of awards / recognitions received for research/innovations by the institution/teachers/research scholars/students during the year.

3.3.2.2   Total number of awards / recognitions received for research/innovations won by institution/teachers/research scholars/students year wise during the year: 9

Awards won by teachers/institution : 9

3.4   Research Publications and Awards

3.4.1 The institution ensures implementation of its stated Code of Ethics for research

The institution has a stated Code of Ethics for research and the implementation of which is ensured through the following:

1. Inclusion of research ethics in the research methodology course work
2. Presence of institutional Ethics committees (Animal, chemical, bioethics etc.)
3. Plagiarism check
4. Research Advisory Committee.

3.4.2 The institution provides incentives to teachers who receive state, national and international recognitions/awards Commendation and monetary incentive at a University function Commendation and medal at a University function Certificate of honor Announcement in the Newsletter / website;

During the academic year, 20 teachers received incentives for various awards during university functions.

3.4.3 Number of Patents published/awarded during the year

Total number of Patents published/awarded year wise during the year 138

3.4.4 Number of Ph.D's awarded per teacher during the year

No. of Ph.Ds are awarded during the year 2020-21: 53

3.4.5 Number of research papers per teacher in the Journals notified on UGC website during the year.

The total number of research papers published during the year is 370 in the Journals notified on UGC website. However, the total number of papers published per teacher during the year 2020-21 is 1.63

3.4.6   Number of books and chapters in edited volumes published per teacher during the year

Total number of books and chapters in edited volumes / books published: 34
Total number of papers in national/international conference-proceedings: 11

3.4.7   E-content is developed by teachers for e-PG-Pathshala For CEC (Under Graduate) For SWAYAM For other MOOCs platform For NPTEL/NMEICT/any other Government Initiatives For Institutional LMS

During the academic year E Univ modules developed across all programs on Moodle using eUniv studio Adobe Pro, Camtasia editing software.

3.4.8   Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

The Average Citation Index during academic year 2020-21 in Scopus is 14.53
The Average Citation Index during academic year 2020-21 in **Web of Science** 12.82

3.4.9 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

The h index of the university as per the Scopus is 35

The h index of the university as per the Web of Science is 31

3.5   Consultancy

3.5.1   Institution has a policy on consultancy including revenue sharing between the institution and the individual and encourages its faculty to undertake 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 deans 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.

3.5.2   Revenue generated from consultancy and corporate training during the year (INR in Lakhs)

The Total amount generated from consultancy and corporate training during the year (INR in lakhs): 42.80

3.6   Extension Activities

3.6.1   Extension activities in the neighborhood community in terms of impact and sensitizing students to social issues and holistic development during the year

During the academic year various extension and outreach programmes were conducted with You we can, Care n Shares, Indian association of muscular dystrophy, Swachh Bharat and Swachh Shoolini abhiyaan, Red cross, plantation drives etc. Different Campaigns on drug abuse are organized by Shoolini's trained volunteers who make an effort to combat the spreading menace of drugs and tobacco by street plays, counselling sessions and student interactions.

3.6.2   Number of awards received by the Institution, its teachers and students from Government /Government recognised bodies in recognition of the extension activities carried out during the year

Total number of awards and recognition received for extension activities from Government / Government recognized bodies during the year: 7

3.6.3   Number of extension and outreach programs conducted by the institution including those through NSS/NCC/Red cross/YRC during the year (including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. And those organised in collaboration with industry, community and NGOs)

Number of extension and outreach programmes conducted -28

3.6.4   Total number of students participating in extension activities listed at 3.6.3 above during the year

Number of students participated in extension activities – 4454

3.7   Collaboration

3.7.1   Number of collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year

During academic year, the total number of collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students – 90

3.7.2   Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the year.

Total number of functional MOU signed with institutions of national, international importance, other universities, industries, corporate houses for internship, on-the-job training, project work, student / faculty exchange and collaborative research -14

CRITERION- IV
INFRASTRUCTURE AND LEARNING RESOURCES

4.1   Physical Facilities:

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

University's infrastructure compares favorably with the best in the world. The facilities for teaching-learning include:

S. No.	Facilities
1	40 Lecture and Seminar Halls with Wi-Fi OR LAN
2	13 e-studios
3	10+ Conference Rooms
4	80+ state of the Art Research Labs all ICT enabled
5	Yogananda Knowledge Centre (Central Library, open 24x7) fully digitized, houses books & journals and e-resources through LMS and KMS, subscription to EBSCO with more than 2.0 lakh e-books and 10,000 research journals. A language lab and eUniv studio.
6	eUniv platform, Online Education supported by the LMS Moodle
7	In-house radio and news channel called Radio Shoolini. Shoolini TV
8	School of Hospitality and Hotel Management attached with various guest houses of the university
9	Yogananda Ville comprising an international hostel, meditation hall & huts & academic block

4.1.2   The institution has adequate facilities for cultural activities, yoga, games (indoor, outdoor) and sports. (gymnasium, yoga centre, auditorium, etc.)

All-round development of students and that learning happens not just in classroom but also in the sports field, auditoria, and other non-academic activity hubs.

Facilities	Particulars
Indoor Sports facilities	Milkha Singh sports complex (three badminton courts, table tennis area, gym plus-cardio facility)
Outdoor Sports Facilities	Basketball ground, Cricket practice pitch, Badminton courts and the Yuvraj Singh Stadium for football, cricket, and other outdoor games.
Yoga and Naturopathy	Yogananda Ville with pine-wooded and mud huts where Naturopathy treatment, training and Detoxification practices are provided.
Hiking and trekking facilities	University is located on a pine-covered hill with walking trails crisscrossing in all directions.
Activity Centre	Cultural Activities are organized for the students along with dance and aerobic classes held.
Auditoriums/theater	Auditoriums and a multipurpose theatre allocated for sociocultural activities. Open air theater

4.1.3 - Availability of general campus facilities and overall ambience

The following are the major facilities available on campus are of high standard and contribute to the overall ambience:

S. No.	Facilities
1	Administrative Block
2	Health Centre
3	Seven State-of-the-art hostels separate for boys and girls
4	Hospitality department runs Daffodil's guest house, Yogananda Ville and Hotel Chalet
5	Seven cafeterias
6	Strong IT facilities.

4.1.4 Total expenditure excluding salary for infrastructure augmentation during the year (INR in Lakhs)

The total expenditure for the academic year 2020-21 on infrastructure was 315.7 Lakhs

4.2 Library as a Learning Resource

Library is automated using Integrated Library Management System (ILMS) and has digitisation facility.

Yogananda Knowledge Centre consists of University Library, E-studio, Language Lab, Ramanujam Analytical Lab and Yogananda Centre for Theology. YKS houses various online and offline resources for learning, teaching and research. Powered by 'in- house' software, the LMS is designed to supplement learning for students. Buttressing this learning platform, is KMS (Knowledge Management System) that aids, augments, and enriches research. YKC is fully automated and books can be accessed through YKC website by students and faculty members. Books are issued and returned through LMS.

Total No of Hard Books - 41000+
Total number of E books - 2 lakh
Total No of e journals - 10,000 plus
Kindles with 25 million e books
These facilities are provided through EBSCO and Delnet

4.2.1 Institution has subscription for e-Library resources Library has regular subscription for the following: e – journals e-books e-ShodhSindhu Shodhganga Databases

The institution has subscription for library books, library journals, e journals, e books, e-ShodhSindhu Shodhganga Databases. During the academic year 2020-21 the university has invested Rs 3.45 lakh for their subscriptions.

4.2.2 Annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the year (INR in Lakhs).

During the academic year 2020-21 the total expenditure purchase of books/ e-books and subscription to journals/e-journals- 53.45 lakhs

4.2.3   Number of usage of library by teachers and students per day (foot falls and login data for online access)

In Academic Year 2020-21, per day students and teachers used the facilities per day is 182.07.

4.3   IT Infrastructure

4.3.1   Number of classrooms and seminar halls with ICT - enabled facilities such as LCD, smart board, Wi-Fi/LAN, audio video recording facilities during the year

Total number of classrooms and seminar halls with ICT, LCD, Smart board, Wifi/LAN and audio video recording facilities -53

4.3.2   Institution has an IT policy, makes appropriate budgetary provision and updates its IT facilities including Wi-Fi facility

The University has well-documented IT policies for ensuring appropriate availability, management of IT assets and protection of their confidentiality and integrity. IT policy is updated on regular basis to ensure e-learning and enabled continue academic. Expenditure on IT installation and maintenance on campus over the last five years has been Rs.414.52 lakhs. Budgeting is done on the assessment of IT-related requirements. The budget allocated for IT expenses was Rs.422.9 lakhs, for ensuring 100% connectivity in campus, and moving towards paperless functioning. University maintains a Wi-fi/Internet from BSNL with 1Gbps bandwidth.

4.3.3   Student - Computer ratio during the year

Number of students: 3729
Number of Computers available to students for academic purposes: 549

4.3.4   Available bandwidth of internet connection in the Institution (Leased line)

During the academic Year 2020-21 the university has ≥1 GBPS available band width of internet connection.

4.3.5   Institution has the following Facilities for e-content development Media centre Audio visual centre Lecture Capturing System (LCSs) Mixing equipment's and softwares for editing

S. No.	Name of the e-content development facility
1	eUniv Studios
2	Shoolini TV
3	Radio Shoolini Media Centre

During the academic year 1097 modules have developed and uploaded on eUniv.

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Total expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the year: 124.70 lakhs

Total expenditure during 2020-21 on maintenance of physical facilities and academic support facilities- 124.70 lakhs

4.4.1 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

The university has a dedicated team under Director Operations and Director Estate overseeing maintenance of Infrastructure, equipment, and day to day maintenance. Further, the university has both indoor and outdoor sports facilities maintained by a sports officer and his team. The transportation facilities were maintained through outsourced agencies. Team of housekeeping and landscape work with dedication to keep campus aesthetically beautiful. Trained Security guards deployed, and surveillance cameras installed at all sensitive areas maintained by IT Team. All teaching aids such as LCD Projectors, PA Systems, Laptops, Desktops, Printers, Wi-Fi etc periodically checked and maintained by Estate and IT Team.

CRITERION – V

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Total number of students benefited by scholarships and free ships provided by the institution, Government and non-government agencies during the year (other than the students receiving scholarships under the government schemes for reserved categories): 799

Total number of students benefited by scholarships and free ships provided by the institution- 766.
Total number of students benefited by scholarships and freeships provided by the Govt. – 10
Total number of students benefitted from the schemes by non-government agencies (NGOs)- 23

5.1.2 - Total number of students benefited by career counselling and guidance for competitive examinations offered by the Institution during the year: 3020

Total number of students benefited by career counselling and guidance for competitive examinations offered by the Institution- 3020

5.1.3 - Following Capacity development and skills enhancement initiatives are taken by the institution Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) Awareness of trends in technology.

During the academic year 2020-21, 40 different programs have been taken up by the institution Soft skills Language and communication skills Life skills.

S. No.	Name of the capability enhancement program	No. of the capability enhancement program
1	Soft Skills	7
2	Language and Communication	7
3	Life skills (Yoga, physical fitness, health and hygiene)	22
4	Awareness of trends in technology	4

5.1.4 - Redressal of student grievances including sexual harassment and ragging cases

The Institution has well documented policies for redressal of student grievances including sexual harassment and ragging cases. The institution also implements guidelines of statutory/regulatory bodies wide awareness and undertakings on policies with zero tolerance. Further, there is a mechanism for submission of online/offline students' grievances. Timely redressal of the grievances through appropriate committees was also ensured during the academic year 2020-21.

5.2 - Student Progression

5.2.1 - Number of students qualifying in state/ national/ international level examinations during the year (e.g.: NET/SLET/GATE/GMAT/CAT/ GRE/TOEFL/Civil Services/State government examinations)

Number of students who qualified in state/ national/ international examinations during the academic year 2020-21 - 9

5.2.2   Total number of placements of outgoing students during the year

Total number of students placed in Government and Non-Government institutions or industries during academic year 2020-21: 322

5.2.3   Number of recently graduated students who have progressed to higher education (previous graduating batch) during the year

As per the data provided by the institution, a significant nos. of students had opted for higher studies under M. Tech, M Pharmacy, MBA, and PhD programs in Shoolini University, Solan and other institutions also. The details provided were verified.

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 (award for a team event should be counted as one) during the year.

The students won an award in State level open individual online Yogasana sport championship and National Individual Yogasana Sports Championship the details of the same have been verified. Three awards were won by four students.

5.3.2   Presence of Student Council and its activities for institutional development and student welfare.

Students Council promotes a sense of ownership amongst students and encourages them to participate in all round activities. Council acts as a conduit between faculty, management, and the students. It provides opportunities to students to acquire skills in planning, organization, leadership. A significant participation of student at different level of activities like IQAC, Institution Innovation Council, Student Placement Committees, BUDDY system, 'Abhiruchi club', Institution Innovation Council, Social Projects, YouWeCan Association, Care and Share group, Prayas group, Giving Back to Society were observed.

5.3.3   - Number of sports and cultural events / competitions organised by the institution during the year

During the academic year the university has organized 38 different events such as Virtual Open Mic, Photography Contest, Grandparents Day Celebration, e- Induction, Virtual Meet and Greet etc. The details of all the events were verified.

5.4   - Alumni Engagement

5.4.1   - The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and other support services during the year.

Shoolini University signed an MOU with Alma Shines, an Alumni Networking Company on September 6, 2019. Alma Shines helps Shoolini University to streamline Alumni management to build a robust and ever-growing alumni community. There are over 2743 strong alumni members registered with the Shoolini Alumni Association. During Academic Year 2020-21 Due to restrictions imposed during Covid -19 outbreaks only virtual meets were organized.

5.4.2   - Alumni contribution during the year (INR in Lakhs)

The alumni contribution during the academic year 2020-21 was <1Lakh

CRITERION – VI

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

Upon reviewing the details, it has been observed that the institution adopted a hierarchy of a university in a systematic manner with a classification starts from Board of Management to Academic Council to University officials (Chancellor, Vice-chancellor, Registrar, Controller of Examination, Dean Academics, Director Finance, Dean Research, Director Operations, Director Placements & Extension activities and other directors) to a system of Faculty empowered by Dean, School run by Head. To functionalize each of academic, administrative and research function, respective committee were formulated which meet time to time for necessary actions. The efforts over years have paid dividends and university achieved excellent ranking in India and globally.

6.1.1 - The effective leadership is reflected in various institutional practices such as decentralization and participative management.

As per the details provided it has been observed that, the effective leadership, good governance, professional advice, and motivated wholehearted participation of all the stakeholders has strengthened the varsity's foothold in the education world as a professional institution. The composition of all decision-making bodies is according to Shoolini University's Acts and Statutes. University prides itself on its democratic, consensus-based, and inclusive decision-making processes.

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic plan is effectively deployed

Upon reviewing the details, it has been noticed that the University has undertaken to strive for excellence in research, in its endeavor to be among top 200 universities globally by 2022. The university has earned an enviable reputation for research excellence with high h index and SCOPUS publications. It earned 16th position in India (Research) and 545th Global rank in SCIMAGO rankings. In QS WORLD UNIVERSITY RANKINGS 2022 – it was positioned at 271-280 rank in Asia and no 1 in citations in the India (6th in Asia). The university also earned good ranking in India also.

6.2.2 - The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

As per details provided, University follows practices based on legality, impartiality, consistency, effectiveness, efficiency, and transparency. The University Governing Council, Board of Management, and other bodies help in strategic governance associated with a broad range of activities related to performance management and institutional development, accountability, and stewardship for university capital and the development of an efficient work culture. The university adopts Indian government regulations with a transparent and fair process for staff recruitment and conditions of employment. The details also revealed that university provides promotion opportunities to staff besides strengthening the link between teaching, research, and extension activities.

6.2.3 – Implementation of e-governance in areas of operations

E-governance mechanisms to the administrative work, finance and accounts, admission, student support, examination function, and planning & development have been verified with presented details.

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has a performance appraisal system, promotional avenues and effective welfare measures for teaching and non-teaching staff.

As per the details verified it has been observed that the university follows a transparent appraisal system on a Fiscal Year basis for all employees & compensations are revised w.e.f. 1st April every year. Separate Appraisals are designed for different categories of employees so that all relevant factors of performance are covered accordingly. Faculty members and researchers are encouraged to participate in various national and international workshop, seminar, conferences, FDPs etc. Further, it also verified that university had various welfare schemes like provision of medical leave and on-campus medical facilities for its employes, exclusive facilities for women in women's centre, including a creche and subsidized transportation etc. for its employees.

6.3.2 - Total number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year.

Upon verifying the details, it has been observed that 4 faculty members have received financial support to attend conferences / workshops and towards membership fee of professional bodies during the year 2020-21 amounting to Rs. 53.65 lakhs.

6.3.3 - Number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the year: 30

As per the data provided by the institution, 30 different professional development / administrative training Programmes were organized by the institution with significant nos. of particaipants from teaching and non-teaching staff.

6.3.4 - Total number of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the year (Professional Development Programmes, Orientation / Induction Programmes Refresher Course, Short Term Course): 67

As per the details verified 67 teachers have undergone online/ face-to-face Faculty Development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes Refresher Course, Short Term Course

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources.

As per the details verified it has been observed that university has pronged strategy to generate and manage adequate resources to build a quality institution. The university has Research funding from various government and non-government agencies, donation and grants from philanthropists and CSR funds along with patent transfer as the strongest revenue source over the years.

6.4.2 - Funds / Grants received from government bodies during the year for development and maintenance of infrastructure (not covered under Criteria III and V) (INR in Lakhs): 13.67

Amount of Funds Funds / Grants received from government bodies during the year for development and maintenance of infrastructure- 13.67 Lakhs.

6.4.3 - Funds / Grants received from non-government bodies, individuals, philanthropists during the year for development and maintenance of infrastructure (not covered under Criteria III and V) (INR in Lakhs); 0

6.4.4 - Institution conducts internal and external financial audits regularly

The University has a mechanism for both internal and external audits. Internal audit is conducted by IQAC and Dean Academic Affairs and an external audit is conducted by a Chartered Accountant on an annual basis. The submission was verified.

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes by constantly reviewing the teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals.

The details that have been verified revealed that IQAC has been actively involved in improving the academic systems and processes. The Annual Quality Assurance reports were also verified. The IQAC provides recommendations to close the performance gap. It has been verified that during the academic year 2020-21 some major innovative measures were taken like Partnership with Coursera & edX for online courses for both faculty and students, IDSA Collaboration for launch of 'Centre of Excellence for Direct Selling in Academics' (CEDSA), Launch of Yogananda Career Academy, VE-V Empower Coaching for students etc. which have a positive impact on the functioning of the university and cater to changing requirements of students.

6.5.2 - Institution has adopted the following for Quality assurance Academic Administrative Audit (AAA) and follow up action taken Conferences, Seminars, Workshops on quality conducted Collaborative quality initiatives with other institution(s) Orientation programme on quality issues for teachers and students Participation in NIRF Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

As per the details provided under submission, University has conducted 51 various conferences, seminars, workshops on quality and orientation programme on quality issues for teachers and students in collaboration with other quality institutions on Skill Progression through Rapid Intensive and Innovative Training for students, Skill Progression through Rapid Intensive and Innovative Training on Confidence Building for UG and through Rapid Intensive and Innovative Training on Communication Skills etc. The details also revealed the university has also participated in NIRF and other quality audits recognized by National and International agencies.

6.5.3 - Incremental improvements made for the preceding during the year with regard to quality (in case of first cycle) Post accreditation quality initiatives (second and subsequent cycles).

As per the details verified there are improvements made for the preceding during the year regarding quality. The details reflect those new initiatives like QS I -Gauge E-Lead Certification, Young researchers' program started, Collaboration with Indian Direct Selling Association (IDSA) and launch of 'Centre of Excellence for Direct Selling in Academics' (CEDSA), conducted 30+ trainings and FDPs for online teaching and appropriate use of technology for the teachers etc. have been taken for increasing the quality in the system from the previous year.

CRITERION-VII

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

Number of promotional activities related to gender equity were organized by the institution during the year on titles, Human Trafficking and Child Abuse, and Awareness session on LGBTQ community, Aids, Guest Faculty and Expert lectures, Special Facilities for Women Employees like creche, Security Arrangements for Women Residents in all the hostels etc. and a significant participation of students was verified.

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment.

As per the details verified the university has facilities for alternate sources of energy and energy conservation. As solar energy facility is available in different hostels, LED bulbs/power efficient equipment's are used throughout the university for the conservation of energy.

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management.

The university has the facilities for solid waste management and same has been verified. Over 700 bins have been provided on campus. The biodegradable solid waste is converted into vermicompost used in nurseries, agriculture farms, and research purposes. STP and ETP for recycling of wastewater were verified. Further, the Biomedical Waste Management was contracted with Enviro Engineers, Shimla, authorized by H.P. State Pollution Control Board for disposal of Biowaste. It is also verified that the university has adopted a minimum and essential use of paper policy which helps in the conservation of resources and a small amount of paper is wasted.

7.1.4 - Water conservation facilities available in the Institution: Rainwater harvesting Bore well /Open well recharge Construction of tanks and bunds Wastewater recycling Maintenance of water bodies and distribution system in the campus.

As per the details it has been verified that the university has provisions for rainwater harvesting, borewell /Open well recharge, tanks and bunds were constructed, with provisions for wastewater recycling.

7.1.5 Green campus initiatives include

As per the details verified the university has taken various initiatives like restricted entry of automobiles, Use of bicycles/ Battery-powered vehicles, Pedestrian-friendly pathways Ban on use of plastic and Landscaping for greening the campus.

7.1.6 Quality audits on environment and energy are regularly undertaken by the institution.

As per the details provided and verified it has been observed that the university has taken number of initiatives like green audit, energy audit, environment audit to preserve and improve the environment and harness energy. Further, the university also received clean and green campus award. It is verified that the university students work beyond the campus for environmental promotional activities.

7.1.7 The Institution has a disabled-friendly and barrier-free environment Ramps/lifts for easy access to classrooms and centres. Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

The Details provided were verified and the university has facilities for disabled persons in terms of barrier-free environment Ramps/lifts, disabled-friendly washrooms, display boards and signposts etc.

7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words)

The feeling of inclusivity is inculcated from the day a student joins Shoolini University. Each new student is assigned a Buddy, an existing senior student with helpful nature, who helps the newcomer settle down to foster multi-cultural diversity, the Office of International Affairs organizes a series of Cultural Cafes. Foreign students are encouraged to mix freely and very often they can be seen participating in the common cultural events, rubbing shoulders with their Indian fellow students. The university also celebrates some of the important days like World Hindi Day, National Youth Day, International Women's Day, World Health Day, International Labor Day, Red Cross Day, International Girl Child Day, Human Rights Day etc.

7.1.9 Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties, and responsibilities of citizens

As per the details verified it has been observed that Shoolini University take an initiative to sensitize students and employees about their fundamental rights, civic responsibilities, values, and duties. Some of the initiatives taken to inculcate these values for being responsible citizens are through Guest lectures, International Workshop on Human Trafficking and Child Abuse, Constitution Day (Samvidhan Diwas), one week FDP on Changing Dimensions of Crime and Criminal Justice in India etc.

7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators, and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators, and other staff Annual awareness programmes on Code of Conduct are organized.

A manual/ guidelines/ code of conduct for Human Resource, Research Scientists engaged in field of Life Sciences, Administration and for office staff and students was found and verified.

7.1.11 Institution celebrates / organizes national and international commemorative days, events, and festivals.

It is verified from the details that university celebrates/ organizes some of the significant days like Republic Day, Independence Day, World Cancer Day, Women's Day, World Health Day, World Labor Day and Teachers Day, Swachhta Diwas etc. in the academic calendar that are celebrated annually.

7.2 Best Practices

7.2.1 Describe one best practice successfully implemented by the Institution as per NAAC format provided in the manual.

V-Empower coaching program is the best practice **successfully implemented by the Institution which is verified as per the details. The results of the practice reported that** the small number of minority students involved in the project demonstrated positive effects from coaching, including even higher gains in self-confidence. While coaching was shown to be effective for both majority and minority students, greater research and attention is needed with ethnically diverse students.

7.3 Institutional Distinctiveness

7.3.1 Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

➢ The University was set up with a quest for creating a center of knowledge and innovation at par with internationally reckoned centers of research and education.

➢ The University is marching ahead towards global excellence by giving a strong thrust to innovative research.

➢ University has published 2154 SCOPUS listed papers, filed 950+ patents, and received financial support of Rs 38 crore+ from various funding agencies. Shoolini University has emerged as one of the top patent filers in the country in recent years.

➢ University now has an h-index of 88, which is the second highest among the universities established in and after 2009.

➢ Shoolini University also aims to provide world-class education and learning experience to distinctive and needy students from smaller towns and villages of India.

➢ Shoolini University has also started the "Summit Research Program" to encourage UG students to carry out research with a faculty member on a specific research topic.

7.3.2 - Plan of action for the next academic year.

Plan of action for the next ACADEMIC YEAR

➢ Excel among Private Institutes: to review and strategize to be among top 50 in NIRF.

➢ Research Focus on Himalayas: With over hundred patents on Himalayan plants, building linkages/collaborating with Indian and foreign universities keen to work on Himalayan flora Bioremediation, climatic change, and conservation of water resources.

➢ Quality Teaching Faculty.

- Centres of Excellence: Informatics, Artificial Intelligence and Data Analytics. To upscale the teaching and learning processes in view of the growing importance and expanding domains in the fields of ICT and the Cyber world, coupled with the technical acumen and proven prowess of the University. Artificial Intelligence, Machine Learning and Mathematical modelling are the other areas of current and future.

- Shoolini synonymous with local economy: to upgrade the Solan district's economy by collaborating with the industry in pharmaceutical research.

- Yogananda Ville: developing Yogananda Knowledge Centre as a retreat offering yogic training and meditation.

- Online Learning: developing courses on MOOCs and improving the online interface.
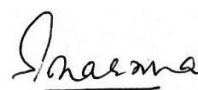
Overall recommendations by the committee

1. More emphasis should be given on virtual teaching pedagogy to meet the global standards to use and share the knowledge platforms mutually to achieve global university target as per the mandate of the university to be among top global universities by 2022.

2. More efforts are needed from all stakeholders to fulfil the requirements of this mission and distinguish itself from other institutes.

3. At present the university had big strength in research and publications based on high number of reputed national and international collaborations. However, more emphasis needs to be given on industrial tie ups and collaborations to further improve the research translation and global ranking outputs of the university.

4. The university has substantially increased the number of research grants, patents, research publications. However, more emphasis should be given to commercialization of the technologies developed and also attracting more international and national funding to achieve the vision and mission set by the university.

5. Based on the present strength and rankings the university should put more efforts on attracting the global students and faculty for overall growth of the university.

6. To meet its objectives the University needs to work hard in all spheres for overall growth of the university.

(Dinesh Kumar)
Dean, PG Studies

(Rohit Goyal)
Controller of Examination

(Somesh Sharma)
Professor

(Sunil Puri)
Registrar and Dean Academics
Shoolini University of Biotechnology and
Management Sciences, Bajhol, Solan