

**SHOOLINI
UNIVERSITY
SOLAN, HP**

Academic and Administrative Audit Report 2019-20



**Academic and Administrative Audit Report
For the Assessment Year: 2019-20**

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

INDEX

Audit Title	Audit Details
Academic Audit & Administrative Audit 2019-20	Audit information for Academic Year (A.Y. 2019-20)

Sr. No.	Contents	Page No.
PART A		
1	Data of the Institution	3-5
PART B		
2	Criterion I- Curricular Aspects	6-8
3	Criterion II- Teaching –Learning and Evaluation	9-11
4	Criterion III- Research, Innovations and Extension	12-14
5	Criterion IV- Infrastructure and Learning Resources	15-17
6	Criterion V- Student Support and Progression	18-20
7	Criterion VI- Governance, Leadership, and Management	21-24
8	Criterion VII- Institution Values and Best Practices	25-27
	Recommendations of committee	28

Detail of the institution	
Data of the Institution	
1. Name of the Institution	Shoolini University of Biotechnology and Management Sciences
Name of the head of the Institution	Prof. Prem Kumar Khosla
Designation	Vice Chancellor
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	01792308000
Mobile no.	9816064182
Registered Email	iqac@shooliniuniversity.com
Alternate Email	vc@shooliniuniversity.com
Address	Village Bajhol, Post Office Sultanpur
City/Town	Solan
State/UT	Himachal Pradesh
PIN Code	173229
2. Institutional Status	
University	Private
Type of Institution	Co-Education
Location	Rural
Financial Status	Private
Name of the IQAC co-ordinator/ Director	Ms. Varsha Patil
Phone no/Alternate Phone no.	01792-308000
Mobile no.	9857550999
Registered Email	iqac@shooliniuniversity.com
Alternate Email	varshapatil@shooliniuniversity.com

3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	https://shooliniuniversity.com/pdf/AQAR%202018-19.pdf
4. Whether Academic Calendar prepared during the year	Yes
if yes, whether it is uploaded in the institutional website: Weblink:	https://shooliniuniversity.com/pdf/AcademicCalendar2019-20.pdf
5. Accreditation Status/ Year of accreditation/ Grade	Yes; 2016; B++
6. Establishment of IQAC/ date of establishment	Yes; 26-Dec-2014

7. Internal Quality Assurance System

In total 12 quality initiatives have been taken up by the IQAC with 3559 participants/ beneficiaries that include students and faculty members

8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of Award
School of Biological and Environmental Sciences, School of Business Management and Liberal Arts	Skill Development for Science internship programme- INSPIRE	Department of Science and Technology	2019-20
School of Biotechnology	Skill Vigyan Program	Department of Biotechnology	2019-20
School of Biotechnology	Establishment of Advanced Biological Research Facility	Department of Science & Technology (FIST)	2016-17 to 2020-21

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

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

Upload the minutes of meeting and action taken report:

https://assessmentonline.naac.gov.in/public/Postacc/Meeting_minutes/6750_Minutes.pdf

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 assessment period

The IQAC has a significant contribution in academic planning and strategy, resource planning, research innovation planning, industry interaction and placement planning and in international planning.

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

The IQAC chalked out 10 different plans for action in the beginning of the academic year and achieved the targets given in the plan of action.

13. Whether AQAR is approved from statutory body, if yes, provide date of proceeding?

Yes; December 22, 2020 (Academic Council)

14. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning

No

15. Whether institutional data submitted to AISHE:

Year of Submission

2020

Date of Submission

29-06-2020

17. Does the Institution have Management Information System?

Yes

PART B
CRITERION I
CURRICULAR ASPECTS

1.1 Curriculum Design and Development

1.1.1- Programmes for which syllabus revision was carried out during the Academic Year.

In the following number of programmes syllabus revision was carried out during the academic year 2019-20

Undergraduate	Post Graduate	Dual Degree
19	22	-

1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year 2019-20

During the Academic year 2019-20, 484 courses in 56 different programmes and different programme specializations were offered having focus on employability/ entrepreneurship/ skill development.

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
PhD	PhD Yoga	01/08/2019

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year

In 51 different UG and PG programmes Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year 2019-20.

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year 2019-20

During the academic year 2019-20, 3410 students have been enrolled in 71 different value added courses.

1.3.2 – Field Projects / Internships undertaken during the year 2019-20

During the academic year 2019-20, 669 students from 18 programmes have enrolled in field projects and internship.

1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders

Yes, the structured feedback has been received from all the stakeholders i.e students, teachers, employers, alumni, and parents.

1.4.2 - How the feedback obtained is being analysed and utilized for overall development of the institution? **(Maximum 500 words)**

Feedback Obtained

We conduct a comprehensive feedback mechanism at the end of every session through our LMS eUniv every session since 2015, wherein students across various faculties participate in the process and provided us with valuable insights into our academics and overall scenario. All the Deans and Head of Schools are requested to direct various course coordinators/ class teachers to take their respective classes to the central IT Lab and get the feedback filled. Alternatively, they can get the same filled in the classes through mobiles/laptops. Central eUniv team assists the smooth conduct of the feedback process with the cooperation of the respective School administration and staff. That the feedback is anonymous and completely confidential is clearly conveyed to the students.

All the Deans/HOS ensure that no teacher is allowed to influence the feedback through unfair means. In our bid to maintain 100 transparencies, the feedback is opened for all the courses to their respective teachers after the results are declared. All faculty are made aware that the feedback is a professional exercise that should be taken in the right spirit and utilized for further strengthening raising our teaching standards. Under no circumstances does this reflect on a teacher's behaviour towards students or be even discussed with them.

A detailed analysis of the feedback is utilized for in-depth introspection and improvement of the organization in the mutual interest of all stakeholders. Teachers having low feedback are counselled, trained, and guided towards improvement, failing which they are relieved from taking that subject in the future. Likewise, after taking the generic feedback every year named “Manthan” separately from students and employees, corrective and counteractive methods are taken to ensure the removal of grievances.

CRITERION II

TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Program Demand Ratio during respective assessment year 2019-20

Name of the Programme	No. of Seats Available	No. of Applications Received	Students Enrolled
UG (All disciplines)	790	5736	704
PG (All disciplines)	543	3970	534

2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio

During 2019, 2186 and 941 students have enrolled in UG and PG programme, with 113 and 131 fulltime teachers available in teaching only UG courses and only PG courses. Further, 131 teachers were involved in teaching of both UG and PG students.

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), eLearning resources etc.

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
244	244	36	137 (136)	48 (47)	24

2.3.2 – Students mentoring system: Yes

Student mentoring and support has been an integral part of university objective. The prime focus of the University is to develop the mental, physical, and social aspects of every student to its full potential thus ultimately contributing to national development. Academic and non- academic growth of an individual is monitored at the university and at the school level, using a well-defined mechanism. The various levels of student mentoring and support are designed in such a way that from the time of admission to becoming alumni everyone is supported by a mentor. In order to cater to the needs of each student, the University emphasizes creating a congenial environment for

teaching and learning process. Special attention is provided for, women, international students, underprivileged and physically disabled students. The University has a multi-level system for students to support and mentoring. The University focuses on the overall development of students in a holistic way. Foreign students are provided all the basic facilities and support to adjust in the new environment. Each one is assigned a faculty as well as a student mentor. Mentors supervise the academic performance and provide psychological support. Mentors also guide the students to take up the research projects and other initiatives like organizing events and participation in extracurricular activities etc.

The upskill through SPRINT programs is an innovative initiative of the University which helps the students to develop their personality and up their level of confidence. The University is supportive in providing quality infrastructure facility to teachers and students and the existence of e-library online courses, Wi-Fi campus etc. are ready instances. The University has a dedicated and student driven proactive 'Placement and Career Development Cell' to look after activities related to career development, training, and placement of students.

2.4 – Teacher Profile and Quality

2.4.1 – Number of full-time teachers appointed during the year 2019-20

During academic year 2019-20, total 80 positions were sanctioned and out of those 71 positions of full-time teachers were filled.

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies)

S.No	Honours/Recognition	Number of teachers
1	Patent Granted	74
2	Teaching innovation award	1
3	Guest of honor at Seminar on “Recent trends in Radiopharmaceuticals in drug discovery-quality, safety and regulatory perspective” sponsored by Atomic Energy Regulatory Board, Mumbai (Govt. of India) at Himachal Pharmacy College, Nalagarh, Solan, HP.	1
4	Innovative Research Award by Atomic Energy Regulatory Board, Mumbai	1
5	Scholarship Award Information: Principles and Techniques for Improving Preclinical Translation in Alzheimer's Disease at Jackson Laboratory, USA	1
6	A professional enhancement grant of upto Rs. 1,50,000/- to attend international workshop at the Jackson Laboratory, Bar Harbor, Maine 04609, USA	1
7	Sharda Lele Memorial Award of Indian Phytopathological Society, IARI, New Delhi	1
8	Bharat Yog Award - 2019 organized by Magical Movements	1

9	Young Scientist Award 2019, and 2020	3
10	Top 2% scientist on the basis of single year (2019) citation by Standford University	4
11	Highly cited researcher for year 2020	1
12	HPC Consortium project grant on assessment of phytochemical by in-silico methods for CoVID 19	1
13	SOT (Society of Toxicology) undergModeratorrraduate faculty research grant award	1
14	Phd and Post Doc received	3
15	Committee member/Invited speaker/ Moderator of session	
16	Award for the Best Published Poetry	1
17	Himachal Ratan Award for stellar contribution in the field of education and research	1
18	Nominated as Member of Cultural Committee of Association of Indian Universities	1
19	Recognized for his stellar contribution in the field of forestry by Panjab University Alumni Association	1

2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during assessment year.

During assessment year, the results in different programmes have been declared in 10-20 days from the date of end term examination.

2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

There were no complaints or grievances about evaluation during the academic year 2019-20.

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution. Yes (available)

<https://shooliniuniversity.com/pdf/PO%20&%20COs%20combined.pdf>

2.6.2 – Pass percentage of students

During the academic year, 97.20 percent of the students have been passed in all the programmes.

2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance: A questionnaire available and detail provided in following link.

<https://shooliniuniversity.com/pdf/2.7.1.pdf>

CRITERION III

RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – Teachers awarded National/International fellowship for advanced studies/ research

Type	Name of the teacher awarded the fellowship	Name of the award
National	Ms. Isha Negi	Ph.D
International	Mr. Vikas Mehta	Post Doc
International	Ms. Priyanka Panchal	Post Doc

3.1.2 – Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other fellows in the Institution enrolled

During academic year JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other fellows were enrolled 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 and Himachal Pradesh Council for Science Technology and Environment (HIMCOSTE).

3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry, and other organisations

The total grant sanctioned during the academic year was ₹ 4,99,00,989. However the amount received from different funding agencies was ₹ 2,13,35,349.00 as major projects from various Govt. and Non-Governmental agencies.

3.3 – Innovation Ecosystem

3.3.1 – Workshops/ Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Workshops/ Seminars conducted during the academic year 2019-20 : 71

Industry -Academia Innovative Practices : 33

3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Awards won by Research scholars/students : 3

Awards won by teachers/institution: 8

3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year 2019-20

One incubation centre was created on campus during the year 2019-20

3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year 2019-20 : 41

3.4.2 – Research Publications in the Journals notified on UGC website during the year

Total number of International publications in the Journals notified on UGC website during the year 2019-20: 221

Total number of National publications in the Journals notified on UGC website during the year 2019-20: 28

3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

The total number of Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings during the year are 69.

3.4.4 – Patents published/awarded/applied

Patents Published: 74

Patents Awarded: 15

Patents Filled: 118

3.4.5 – Publications based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Total number of publications published in Scopus during the academic year 2019-20: **238**

3.4.6 – h-Index of the Institutional Publications (based on Scopus/ Web of science) in year 2019-20:

h-Index of Shoolini University is 74

3.4.7 – No. of Faculty participation in Seminars/Conferences and Symposia

Number of Faculty	International	National	State	Local
Attended/Seminar /Workshops	45	108	62	56
Presented papers	25	8	2	Nil
Resource persons	19	64	12	1

Total no of faculty participated -402

3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy projects: **Rs. 89,39,117**

3.5.2 – Revenue generated from Corporate Training by the institution: **Rs 14,06,175**

3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community, and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc. during the Year 2019-20.

Number of extension and outreach programmes conducted- 112

3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

During academic year the university has received awards from EarthJust Ecosystems Foundation, Foundation for A Drug-Free World, India, Healing Himalayas, Inner Wheel Club Chandigarh Central, Rotary Club, Solana and Goonj.

3.6.3 – Students participating in extension activities with Government Organisations, Non-Govt. Organisations, and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc

Total number of students participated in extension activities: 17431

Number of teachers participated in different extension activities: 2169

3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange

During academic year, the total number of collaborative activities for research, faculty exchange, student exchange: 151

3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc.

Total number of linkages during the academic year with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc.: 329

3.7.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc.

Total number of MOU signed with institutions of national, international importance, other universities, industries, corporate houses: 36

CRITERION IV

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation (Rs Lakh)

Year	Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
2019-20	1812	1654.88

4.1.2 – Details of augmentation in infrastructure facilities

Facilities	Existing or Newly Added
Campus Area	Existing
Classrooms	Newly Added
Laboratories	Newly Added
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added
Others	Existing

4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

2019-20
Fully automated KOHA (18.05); Duolingo (Language Lab); eUniv studio (Camtasia, Moodle)

4.2.2 – Library Services

The university has a unique library with sufficient number of textbooks, reference books, e journals, e books, journals, digital database, CD & video, other magazines and newspapers for the university students. During academic year Rs. 13 Lakh was spent as recurring expenditure on newspaper/library/journals/e-journals & magazines annually.

4.2.3 – E-content developed by teachers such as: e-PG- Path Shala, CEC (under e-PG- Path Shala CEC (Undergraduate) SWAYAM other MOOCs platform NPTEL/ NMEICT/ any other Government initiatives & institutional (Learning Management System (LMS) etc.

All faculty members have created e-content on eUniv which was launched in August and November, 2019 and January, 2020.

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Participation in resource sharing networks/consortia: eUniv, EBSCO, DELNET and Open Sources.

Type	Total
Total Computers	350
Computer Lab	6
Internet	1265
Browsing centres	24
Computer Centres	60
Office	48
Departments	70
Available Bandwidth h (MBPS/ GBPS)	1265

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

1265 MBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
eUniv Studios	https://euniv.shooliniuniversity.com/
Shoolini TV	https://youtube.com/channel/UCslGhC1ZcPmzeA7foXjCFw
Radio Shoolini Media Centre	https://www.facebook.com/radioshoolini/

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
46	48.45	134	169

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

Major highlights are enumerated below:

Laboratory: Work flow from HOD to lab technician and lab attendant exists.

Maintenance of laboratories related to calibration, repairing and maintenance of sophisticated lab equipment's exist.

Library: Requirement and list of books is duly approved from HOD; feedback from students & faculty verified.

EBSCO platform is subscribed in library covering 12,000 journals 2 million books in fully downloadable formats.

Sports complex facility available.

Centralized computer laboratories available.

ERP software is used for maintaining faculty and students' details.

CRITERION V

STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

Evidences for scholarship to the students under several schemes, Defence Scholarship, Employee Scholarship, BPL, Foreign Student Scholarship, Merit Cum Means Scholarship, NET Qualifying Scholarship, Old Student Scholarship, PhD Research Scholarship, SAPS, SEST, Siblings Scholarship, Single Girl Child Scholarship, Single Parent Scholarship, Special Scholarship (15,000/- per month), Sports Scholarship, Students of North East/Bhutan/Nepal/Kashmir region, Topper Scholarship, Vice Chancellor Fellowship & Ward Scholarship etc. were verified. Moreover, the scholarship provided from national and international agencies are also observed.

5.1.2 – Capability enhancement and development schemes

Activities related to capability enhancement and development were verified at UG, PG and PhD levels under SPRINT, AI Siqandar interview session, workshops, deliberations and practical training were verified.

5.1.3 – Students guidance for competitive examinations and career counselling

Activities for career counselling sessions, coaching for competitive exams, preparation for placement interviews by the institution in a year's time were verified and a significant participations from students was observed.

5.1.4 – Transparency, timely redressal of student grievances, prevention of sexual harassment and ragging cases

The institution formulated a mechanism for early redressal of grievance or such cases and relevant proceedings were verified. There were total 24 cases noted in a year's time.

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

The placement record of students in several companies like Abbott, Airtel, ANAND AUTO, Byju's, Cipla, Cremica, Dabur, Dr. Morepen, Genpact, HILTI, Hughes Systique, ICICI BANK, IDS Infotech,

Jugnoo, Microtek, NESTLE, Panacea Biotech etc was verified and the student progression was found satisfactory.

5.2.2 – Student progression to higher education

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 detail provided was verified.

5.2.3 – Students qualified to state/ national/ international level examinations

Detail of students qualified in competitive exams like GATE, NET etc was verified and total nos. of students was found to be 17.

5.2.4 – Sports and cultural activities / competitions

As per the details provided under submission, several intra-university and inter-category events were noticed to organize by the institution which are enumerated as Independence Day Celebration, SPRINT, Tansen ki Khoj & Shoolini Best Radio Jockey, Nukkad Natak on Drug Abuse, Hindi Diwas, Mirchi Campus Rockstar, Poster Making, SUFIYANA, NCC- Singing and Dance Event, Manchtantra, Diwali Celebration, Breast Cancer Awareness, Alumni Meet, Outdoor Team Building, Art Competition at Majholi School, Children Day at Majholi, Yoga in SPRINT, Role Play Competition in SPRINT, Speech competition, Poster Making, Prerna Diwas, Bollywood dancing fitness regime, Naati workshop, Gandhi Jayant Celebration, Badminton Tournament, Cricket Tournament, Marathon etc. A significant participation from the students was observed.

5.3 – Student Participation and Activities

5.3.1 – Number of awards/ medals for outstanding performance in sports/ cultural activities at national/international level

Some of the awards by students in sport activities like Star Gouj- Ryu Karate Cup was observed and details verified. There were three students won the awards.

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/ committees of the institution

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 was observed.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

A registered Alumni Association and networking among passed out students and proceeding of meeting was observed. The aim of these interaction was to have more connections for dissemination of info, sharing task, providing opportunities, helping others etc.

CRITERION VI

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Upon reviewing the detail 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.

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each)

Strategy Type	Details
Examination and Evaluation	A continuous mode of learning and evaluation was verified for conduct of mid-term, assignment, quiz, seminar, student-teacher interactions, projects, SPRINT and viva-voce was verified. Shoolini ERP included myShoolini, eUniv and SU exam portal was observed functioning. Each of exam related activities are performed online.
Admission of Students	An Admissions Committee under the chairmanship of the Vice-Chancellor with members from each faculty works under the regulation of regulatory body for eligibility criteria and conduct of the admission procedure including entrance test followed by interview. Media for publicizing admission campaign included local and national newspapers, TV Channels, FM Radio, University's website, handbills, inserts in newspapers and outdoor hoardings. An online admission management system Extraedge and later NoPaperForms are being used. In 2020, a 'Cloud telephony' platform with MCube has been introduced. The methods for implementation of admission brochure, eligibility criteria and elaborating the admission procedure, are being followed.
Industry Interaction / Collaboration	An institutional -Industry cell is identified for enhanced linkage or collaborations on expansion of the University's network, scope of consultancy, training & placements and strengthen the mentorship program.

Human Resource Management	The University follows a systematic process to ensure the availability of highly specialized human resources. Initiatives from human resource includes a system of grievance handling for faculty and staff; exit interviews; organize FDP; and welfare schemes for faculty and staff.
Library, ICT and Physical Infrastructure / Instrumentation	ICT enabled Library Management is noted. The University subscribes to around 9,000 journals through USA based EBSCO and DELNET databases. Such a technology savvy learning environment allows students to extend and explore their research interests on a 24x7 basis.
Research and Development	The University's research philosophy rests upon the following verticals: 1. Develop excellence in scholarly standards with a focus to move. 2. Harnessing Himalayan biodiversity; foster inter institutional collaborations; and a focus on health care, food, energy conservation and generation, Nanotechnology etc.
Teaching and Learning	A continuous mode of learning and evaluation incorporating learning, transmission of knowledge and developing skills and most importantly, to encourage free thinking to address complex challenges are noted. The methodologies include model of case study, skill enhancement, outcome driven curriculum and modern pedagogy, personal development, tutorials, mentorship, computer literacy, meditation, communication, and language proficiency etc. Motivation for students to participate research activities, publishing papers and filing patents, participation in workshop, conferences, online courses are observed.
Curriculum Development	A systematic mechanism for revision and advancement of curriculum having experts form academia and industry is noted.

6.2.2 – 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 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year:

Faculty members and researchers are encouraged to participate in various national and international workshop, seminar, conferences, FDPs etc. An active participation across each faculty has been observed. Most of the faculty were provided with a significant financial assistance and support from the institution for such participation.

6.3.2 – Number of professional development / administrative training programmes organized by the University for teaching and non-teaching staff during the year

No of training sessions, faculty training, staff development programs etc. have been organized related to eUniv, online teaching, online education, online evaluation, SPRINT, placements, LMS, administrative processes.

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

A significant no. of faculty members have attended and participated in training sessions, QIP, online training, online courses (edX, coursera, MOOCS, SWAYAM etc.) related to management, documentation, food technology, Energy, agriculture, health chemicals, corporate frauds, AI, media skills and industry, SPSS, Yoga, remote sensing, cloud computing etc.

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

The recruitment of faculty and staff was found to be on regular basis.

6.3.5 – Welfare schemes for

Welfare schemes for faculty, staff and students as monthly Birthday Celebrations, Free Education for the Children of Employees, Festival Celebrations (Diwali), Rewards Recognition (Pat on the back Award) and Support classes for Kids of Employees have been implemented along with cultural activities and sports competitions etc.

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

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.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year (not covered in Criterion III).

A funding of 50 lacs. for establishment of Cancer Research Centre was observed.

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Yes; academic and administrative audits were performed.

6.5.2 – What efforts are made by the University to promote autonomy in the

affiliated/ constituent colleges? (if applicable)

Not Applicable

6.5.3 – Activities and support from the Parent – Teacher Association (at least three)

Parents are involved formally through feedback and online communication about the various activities and their wards performance. Also, they are invited for various events and activities organized in the campus.

6.5.4 – Development programmes for support staff (at least three)

Development programs for staff on Firefighting, SOP (Standard Operating Procedure) Trainings, General Grooming Training, and Preventive Maintenance programmes for support staff were performed.

6.5.5 – Post Accreditation initiative(s) (mention at least three)

Initiative related to NBA Accreditation for B. Pharmacy and MBA program; Great Place to Work Certification; myShoolini Application, NIRF, Radio Shoolini, Research Awards, New programs, eStudio, proctoring solution to exam, National Education Policy etc. were verified.

6.5.6 – Internal Quality Assurance System Details

IQAS lies for submission for AISHE, NIRF, ISO and NBA.

6.5.7 – Number of Quality Initiatives undertaken during the year

Number of quality initiative on Great Place to Work Certification, NAAC accreditation, NoPaperForms, Cloud computing, Cancer research center, proctored examination, BBB initiative, Shoolini TV, SRP programs etc. were observed.

CRITERION VII

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Activities related Gender Equity

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 and a significant participation of students was verified.

7.1.2 – Environmental Consciousness and Sustainability/ Alternate Energy initiatives

A requirement of renewable energy sources was met by the University in a year. The developments related to improve campus environment for students and staff with new teaching research facilities, expanded students' accommodation and new study spaces were observed. Green Building Technologies in University's library was also observed and the consumption of percentage power energy met by renewable energy sources which was 40 units with installation of around 1300 solar panels connected to a solar energy grid of 400 kilowatts of electricity. The developed facilities of high-quality sporting amenities like the indoor sports complex with badminton and table tennis facilities for improving students' stay at the university were also verified along with gymnasium.

7.1.3 – Differently abled (Divyangjan) friendliness

Activities related to friendliness for differently abled person like Ramp/ Rails and other facilities were found available.

7.1.4 – Inclusion and Situatedness

A detail for some of the Quality initiative programs such as on Women's Day, World Health Day, Amazon Fire, Nukkad Natak, Interaction with Villagers, Swachta drive, Medical Camp, Health Check-up, Girl Child, Blood Donation, Goonj Collection Drive, Plogging, Inauguration of Cancer Research Center, Cleanathon, Traffic Awareness, IGMCI, Jan call Abhyaan, Child Abuse, Environment Day, International Yoga day, Gandhi Jayanti, Hindi Diwas, Mask my India, Daan Utsav organized by the institution was verified.

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

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.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Promotional activities for universal Values and Ethics like virtual Symposium on Outbreak of Covid 19 through Yoga; Webinar on Role of Patanjali's Yoga Sutra for Mental Health; Webinar on Homoeopathy; Debate competition on Yoga for Health; International Day of Yoga with on Divya Himachal News Channel; Propagated Value & Importance of Yoga Through Open elective paper (Yoga in Daily Life); Drug Abuse Awareness; Drive against use of Plastic; Significance of Cleanliness; Health conditions; Cancer awareness & research; COVID, Child abuse; Breast cancer etc. were organized and the details were verified.

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Several initiatives to make campus Eco-friendly like my Tree - Save the Himalayas initiative – Geotagging of trees; Garden waste for making compost; Rainwater harvesting system; Installation of PV Panels for harnessing solar energy, 3M water purification, ample number of Power Saving LED lights, and STP and ETP - For recycling of wastewater were verified.

7.2 – Best Practices

Details related to Best practices adopted by the institution for implementing a state-of-the-art India centric online learning Solution; and Radio Shoolini – A community radio effort to spread awareness and help upskilling were verified.

7.3 – Institutional Distinctiveness

Institutional distinctiveness as per text below was verified.

1. Shoolini University ranked #53 among all Indian Institutions in Research by NIRF 2020.
2. The h-index of Shoolini University is 72 which is second highest amongst the Institutions who are established in or after 2009.
3. Shoolini University has been ranked #18 among all Indian Institutions in Research by Nature Research Index 2020.

4. Shoolini University has been ranked #34 among all Indian Institutions in research by SCIMAGO rankings 2020.

5. Shoolini University has also filed 520 patents in past 5 years and as a result of that we have been placed amongst top 3 highest patent filers in a report published by IP India 2020.

6. Shoolini University bagged position in the band of 6-25 in Atal Innovation rankings.

In addition, Shoolini University faculty members have also been recognised at international level. Seven of our Faculty members were placed in top 2 list of global lists of Scientists published by Stanford University. One of our faculty members has also been nominated as top 1 of highly cited researchers published by Clarivate analytics.

Weblink of the institution

Weblink given by the institution was also verified.

<https://shooliniuniversity.com/pdf/Institutional%20Distinctiveness%20for%202019-20.pdf>

Overall recommendations by the committee

1. More emphasis should be given on virtual teaching pedagogy to meet the global standards so as 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 on commercialisation 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