

INTERNAL QUALITY ASSURANCE CELL (IQAC)

ANNUAL QUALITY ASSURANCE REPORT (AQAR) 2016-17



Hemvati Nandan Bahuguna Garhwal University
(A Central University)
Srinagar (Garhwal), 246174 Uttarakhand

Submitted to
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
Bengaluru-560072

The Annual Quality Assurance Report (AQAR) of the IQAC

Part – A

I. Details of the Institution

1.1 Name of the Institution

Hemvati Nandan Bahuguna Garhwal University
(A Central University)

1.2 Address Line 1

NH-58, Badrinath Road

Address Line 2

City/Town

Srinagar (District: Pauri Garhwal)

State

Uttarakhand

Pin Code

246174

Institution e-mail address

registrar.hnbgu@gmail.com
registrar@hnbgu.ac.in

Contact Nos.

01346-252143

Name of the Head of the Institution:

Prof. Jawahar Lal Kaul
Vice-Chancellor

Tel. No. with STD Code:

01346-250260

Mobile:

+91 9412079544

Name of the IQAC Co-ordinator:

Prof. Om Prakash Gusain

Mobile:

+91 9412960926

IQAC e-mail address:

iqac.hnbgu@gmail.com
director.iqac@hnbgu.ac.in

1.3 NAAC Track ID(For ex. MHCOGN 18879)

UAUNGN10078

1.4 NAAC Executive Committee No. &Date:

EC(SC)/14, Dated 29.03.2016

1.5 Website address:

hnbgu.ac.in

Web-link of the AQAR:

[http://www.hnbgu.ac.in/writereaddata/AQAR%202016-17\(1\).pdf](http://www.hnbgu.ac.in/writereaddata/AQAR%202016-17(1).pdf)

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

1.6 Accreditation Details

Sl.No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	B ⁺⁺	-	2003	2002-2007
2	2 nd Cycle	A	3.11	2016	2016-2021
3	3 rd Cycle	-	-	-	-
4	4 th Cycle	-	-	-	-

1.7 Date of Establishment of IQAC: DD/MM/YYYY

18.02.2010

1.8 AQAR for the year(for example 2010-11)

2016-17

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC (for example AQAR 2010-11 submitted to NAAC on 12-10-2011)

i. AQAR 2015-16: 27.12.2016

1.10 Institutional Status

University State ☐ Central ☒ Deemed ☐ Private ☐

Affiliated College Yes ☐ No ☐

Constituent College Yes ☐ No ☐

Autonomous college of UGC Yes ☐ No ☐

Regulatory Agency approved Institution Yes ☒ No ☐

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education ☒ Men ☐ Women ☐

Urban ☐ Rural ☒ Tribal ☐

Financial Status Grant-in-aid ☒ UGC 2(f) ☐ UGC 12B ☐

Grant-in-aid + Self Financing ☐ Totally Self-financing ☐

1.11 Type of Faculty/Programme

Arts ☒ Science ☒ Commerce ☒ Law ☒ PEI(PhysEdu) ☒

TEI (Edu) ☒ Engineering ☒ Health Science ☒ Management ☒

Others (Specify)

Agriculture & Allied Science

1.12 Name of the Affiliating University (*for the Colleges*)

Not applicable

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

Central

University with Potential for Excellence

UGC-CPE

DST Star Scheme	<input type="text"/>	<input type="text"/>
UGC-Special Assistance Programme DST-FIST	<input type="text" value="√"/>	<input type="text" value="√"/>
UGC-Innovative PG programmes	<input type="text"/>	Any other (<i>Specify</i>) <input type="text" value="DBT-HRD"/>
UGC-COP Programmes	<input type="text"/>	

2.IQACComposition and Activities

2.1 No. of Teachers	<input type="text" value="09"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="12"/>
2.3 No. of students	<input type="text" value="01"/>
2.4 No. of Management representatives	<input type="text" value="01"/>
2.5 No. of Alumni	<input type="text" value="03"/>
2.6 No. of any other stakeholder and community representatives	<input type="text" value="01"/>
2.7 No. of Employers/ Industrialists	<input type="text" value="02"/>
2.8 No. of other External Experts	<input type="text" value="03"/>
2.9 Total No. of members	<input type="text" value="32"/>
2.10 No. of IQAC meetings held	<input type="text" value="01"/>
2.11 No. of meetings with various stakeholders:	
No.	<input type="text" value="02"/>
Faculty	<input type="text" value="01"/>
Non-Teaching <input type="text"/>	Staff Students <input type="text"/>
Alumni <input type="text"/>	Others <input type="text" value="01"/>
2.12 Has IQAC received any funding from UGC during the year?	
Yes	<input type="text" value="-"/>
No	<input type="text" value="√"/>
If yes, mention the amount	<input type="text" value="NA"/>

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. International National State Institution Level

(ii) Themes

- Organized events like quiz, poster competition and lectures on the 'World Water Day' (22 March 2017) in collaboration with the Department of Zoology & Biotechnology' at Chauras Campus. Prizes were distributed to the winners.
- IQAC conducted workshop for the faculty members and research scholars of the university on How to add the additional journals to the UGC List of Journals and encouraged them to publish in those journals (April 2017).

2.14 Significant Activities and contributions made by IQAC

- Director IQAC was the Nodal Officer for submitting data to NIRF 2017. HNB Garhwal University was placed in the Rank Band 151-200.
- The AQAR for the academic year 2015-16 was prepared on the basis of the information and data collected from the teaching departments and different Sections of the University and was subsequently submitted to NAAC on 27.12.2016.
- Student's Feedback on Teachers obtained through online mode was analysed. The format for obtaining Student's Feedback on Teachers was also modified as per the suggestions of NAAC Peer Team members.
- On the recommendation of IQAC, University Scientific Instrumentation Centre (USIC) has extended its facilities to all the Affiliated Colleges/ Institutes in addition to the faculty members, research scholars and students of campuses.
- On the recommendations of IQAC, the admission form for academic session 2017-18 was modified by the Dean Student's Welfare to include other required details.
- Director IQAC acted as member in Committee for scrutiny of the API scores of the candidates who applied for promotion under CAS.
- Prof. O.P. Gusain, Director, IQAC participated in three days Conference on 'Benchmarking Procedures and Practices for Quality Enhancement in Higher Education' organized by Centre of Education Beyond Curriculum, Christ University, Bengaluru, Karnataka (November 22-24, 2016).
- Dr. Nitin Sati, Assistant Director, IQAC attended NAAC Sponsored National Conference on 'Transforming Higher Education through Academic and Administrative Audit' organized by NMKRV College for Women, Bengaluru, Karnataka (February 2-4, 2017).

2.15 Plan of Action by IQAC/Outcome

Plan of Action	Achievements
<ul style="list-style-type: none"> Quality Assurance Beyond Curriculum Initiatives 	<ul style="list-style-type: none"> Induction/ Orientation programme for the 1st Semester students were organized by the teaching departments. Online feedback was obtained from students' on teachers. Monitoring the regularity in classes. The Industry-Academia linkage has been strengthened by regularly organizing <i>Aarohan</i>, an Industry-Academia linkage event. <p>The following recommendations of the IQAC were duly notified by the University for implementation:</p> <ul style="list-style-type: none"> The suggestions of the NAAC Peer team were duly notified for action. A committee was constituted to finalize the modalities for including MOOCs and SWAYAM courses by the University. To devise an internal ranking system for the departments of the University and identify top three departments that can be given incentives in the form of additional financial grants. For increasing placements, prospective departments are to be identified and steps be taken to increase participation of students in such events in coordination with the Placement Cell of the University. Conduction of Academic Audit of teaching departments of the University by the Internal Academic Audit Cell (Efforts are in pipe line to undertake the exercise in 2017-18)

Academic Calendar of the year (Annexure-i)

2.15 Whether the AQAR was placed in statutory body Yes ☐ No ☐

Management ☐ Syndicate ☐ Any other body ☒

Provide the details of the action taken

To be placed in the Academic Council

Part – B

Criterion – I

I. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added/ Career Oriented programmes
PhD	43	-	-	-
PG	55	-	07	-
UG	14	-	05	-
PG Diploma	07	-	-	07
Advanced Diploma	-	-	-	-
Diploma	06	-	06	06
Certificate	06	-	04	05
Others*	02	-	-	03
Total	133	-	22	21**
Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

*M.Phil. (02), Integrated Programme (01)

**excluding UG/PG Professional Courses

1.2 (i) Flexibility of the Curriculum: **CBCS/Core/Elective** option / Open options

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	78
Trimester	-
Annual	08

1.3 Feedback from stakeholders* Alumni ☐ Parents ☐ Employers ☐ Students ☒
(On all aspects)

Mode of feedback: Online ☒ Manual ☐ Co-operating schools (for PEI) ☐

Annexure ii

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

- **B.Sc. Chemistry:** Revised the syllabus of Skill Enhancement Course for III Semester.
- **M.Sc. Environment Science:** Made Remote Sensing & Computer Application a core course; added a new Self Study Course, and revised elective papers.
- **MBA:** Made Industry visit mandatory for the students.
- **B.Ed.:** The syllabus of B.Ed. Programme updated according to NCTE Regulation 2014, and modified in year 2016. Internship is introduced in B.Ed II & III Semester.

- **B.Tech. Instrumentation Engineering:** Modified the syllabus as per the CBCS and updated to acquaint students with new and current knowledge as well as to enhance their practical skills.
- **Deptt. of Botany & Microbiology:** Addition and deletion of some genera in the syllabi was made on the basis of their availability locally and economic importance. Dissertation in M.Sc. IV Sem (Botany) was made optional. In M.Sc. IV Sem (Microbiology) only dissertation work will be carried out.
- **Deptt. of Physical Education:** Designed syllabus for Pre-PhD Course for PhD Programme in Physical Education; modified B.P.Ed. & M.P.Ed. syllabus according to the needs of the students and experience of the faculty.
- **Centre for Mountain Tourism and Hospitality Studies:** Revised the syllabus of one year PG Diploma in Tourism & Elementary Hoteliering in order to make the students to go for lateral entry in MBA (Tourism) III Semester.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

Nil

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
281	104	77	100	08

2.2 No. of permanent faculty with Ph.D.

237

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
Nil	108	Nil	49	Nil	30	Nil	Nil	Nil	187

2.4 No. of Guest and Visiting faculty and Temporary faculty

-

-

165

2.5 Faculty participation in conferences and symposia

No. of Faculty	International level	National level	State level
Attended	09	27	07
Presented papers	37	89	06
Resource Persons	28	24	13

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- The Department of Business Management had adopted new teaching methods by encouraging students to undertake activities like \$1 activity where the students are required to produce a product and market it. As a result the students will be exposed to the practical problems that will be faced at the ground level of marketing. This method of teaching got a very good response from the students.
- *Sair Saleeka* (A Movement for Responsible Journey on Planet Earth): Centre for Mountain Tourism and Hospitality Studies of HNB Garhwal University is the first higher education institution in the country to include an innovative concept of *Sair Saleeka* programme in the curriculum of two year MBA (Tourism) from the academic session 2017-18 onwards. *Sair Saleeka* is an initiative to spread awareness among the tourists about the cleanliness of the environment of the destinations.

2.7. Total No. of actual teaching days during this academic year

180

2.8 Examination/ Evaluation Reforms initiated by the Institution(for example: Open Book Examination,Bar Coding, Double Valuation, Photocopy, Online MultipleChoice Questions)

- Online submission of marks by the examiners.
- Adoption of Central Evaluation in selected programmes to expedite the declaration of results.

2.9 No. of faculty members involved in curriculum Restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

The BoS constitutes 90% of the faculty members.

2.10 Average percentage of attendance of students

80-85%

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.A.	1087		4.59	50.87	27.7	83.16
B.Com.	268		14.17	67.91	8.20	90.28
B.Sc.	1153		16.73	57.50	7.45	81.68
M.A.	365					68.67
M.Sc.	499					73.54
M.Com.	30					46.60
Other Programmes	196					94.80

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes

- IQAC regularly seeks information on the activities undertaken related to teaching and learning by the departments.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	32
UGC – Faculty Improvement Programme	01
HRD programmes	01
Orientation programmes	07
Faculty exchange programme	-
Staff training conducted by the university	06
Staff training conducted by other institutions	05
Summer / Winter schools, Workshops, etc.	29
Others	04

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff/ Technical Staff	581	280	Nil	-

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- Dissemination of information related to research programmes among faculty members.
- PG departments have been mobilized to apply to special grants like UGC-SAP, DST-FIST etc.
- IQAC conducted workshop for the faculty members and research scholars of the university to facilitate uploading of additional journals to include in the UGC List of Journals, and encouraged them to publish in those journals.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	04	54	-	-
Outlay in Rs. Lakhs	168.49	978.34	-	-

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	02	06	-	-
Outlay in Rs. Lakhs	4.46	22.29	-	-

3.4 Details on research publications

	International	National	Others
Peer Review Journals	210	198	-
Non-Peer Review Journals	-	-	-
e-Journals	01	03	-
Conference proceedings	03	07	-

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Annexure iii

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP CAS DST-FIST
DPE DBT Scheme/funds

3.9 For colleges Autonomy DPE DBT Star Scheme
INSPIRE CE Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	-	01	-	-	-
Sponsoring agencies		Vijnana Parishad of India; Organized Department of Mathematics, BGR Campus, Pauri, HN BGU			

3.12 No. of faculty served as experts, chairpersons or resource persons

48

3.13 No. of collaborations

International

03

National

02

Any other

-

3.14 No. of linkages created during this year

03

3.15 Total budget for research for current year in lakhs:

From Funding agency

1025.70

From Management of University/College

305.16

Total

1330.86

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	Nil
	Granted	Nil
International	Applied	Nil
	Granted	Nil
Commercialised	Applied	Nil

3.17 No. of research awards/ recognitions received by faculty and research fellows of the institute in the year

Total	International	National	State	University	Dist	College
09	01	03	05	-	-	-

3.18 No. of faculty from the Institution

237

who are Ph.D. Guides

and students registered under them

244

3.19 No. of Ph.D. awarded by faculty from the Institution

104

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF/SRF

59

Project Fellows

Any other

385

3.21 No. of students Participated in NSS events:	University level	1294	State level	-
	National level	-	International level	-
3.22 No. of students participated in NCC events:	University level	834	State level	187
	National level	137	International level	01
3.23 No. of Awards won in NSS:	University level	-	State level	-
	National level	--	International level	--
3.24 No. of Awards won in NCC:	University level	-	State level	-
	National level	03	International level	-
3.25 No. of Extension activities organized				
University forum		02	College forum	-
NCC		03	NSS	27
			Any other	-

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

1. Community Development Cell (CDC), in March, 2017, with the support of Department of Adult Continuing & Extension Education, HNB Garhwal University started two libraries for the students and villagers of the adopted villages under the *Unnat Bharat Abhiyaan*. Libraries were started at Janta Inter College, Jamnakhil and Janta Inter College, Dhamkeshwar. In the opening ceremony of the library an essay competition was conducted for the student's of the concerned villages and school on the topic "importance of good books for the students". To initiate the library more than 500 books were donated to both the centres. The books related to General Knowledge, Self employment, competitive examination preparations etc. were donated to the centres. To manage the library, local committee headed by the principal and two teachers and students of the respective school was constituted.

2. Sair Saleeka (A Movement for Responsible Journey on Planet Earth): Centre for Mountain Tourism and Hospitality Studies (CMTHS) of HNB Garhwal University is the first higher education institution in the country to include an innovative concept of *SairSaleeka* programme in the curriculum of two year MBA (Tourism) from the academic session 2017-18 onwards. *SairSaleeka* is an initiative to spread awareness among the tourists about the cleanliness of the environment of the destinations.

3. Dialogue with the Society: The Centre for Journalism and Mass Communication of the University has been doing excellent work in establishing dialogue with the society. The centre also organizes several programmes in environmental communication and reporting and highlighting the burning issues faced by the people of the Uttarakhand. The Centre's major tool of communication with the society is the publication of a monthly journal SANCHAR TATVA, which has wide circulation. PRASAR is a monthly news bulletin circulated among neo-literates by the Department of Adult, Continuing and Extension Education.

4. Active Participation of University in Social Works: The Department of Sociology and Social Works (DOSSW) of the University has been very active in sensitizing the society on contemporary social issues and promoting public awareness for ensuring their active participation in addressing these social issues

5. Four Inspire Internship Science Camps during 2016-17 sponsored by DST-GOI. Prof. D. C Srivastava, FNA was outstanding participant (17/01/17 to 24/01/17; 27/01/17 to 03/02/17; 07/02/17 to 14/02/17 and 15/03/17 to 21/03/17.)

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	267.93 acres	-		267.93 acres
Class rooms	179	02	-	181
Laboratories	142	05	UGC	147
Seminar Halls	50	-	-	50
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	74	28	UGC/University	102
Value of the equipment purchased during the year (Rs. in Lakhs)	457.77	107.54	UGC/University	565.31
Others	-	-	-	-

4.2 Computerization of administration and library

Retrospective conversion process of book collection of Central Library at Birla Campus is on - going. A collection of more than one lakh books has been classified, catalogued and made inventory available in machine readable form.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	474751	599.09	27246	128.17	501997	727.26
Reference Books	24528	266.94	5329	236.69	25857	503.63
e-Books	2248	61.66	1138	89.50	3386	151.16
Journals	194	5.74	-	-	194	5.74
e-Journals	450	-	-	-	450	-
Digital Database	-	-	-	-	-	-
CD & Video	201	-	-	-	501	-
Others (specify)	-	-	-	-	-	-

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	1067	47	22	03	04	16	40	-

Added	37	04	03	-	-	-	-	-
Total	1104	51	25	03	04			

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- **ICT enabled functioning:e-Governance cell** is an initiative of H.N.B Garhwal University to make whole university services available to students and staffs via electronic media. One of the important goals of e-Governance cell is to implement transparency in the system. Currently e-Governance cell is maintaining a web application which is hosted on www.hnbguedrp.in. This web application is one kind of ERP specially developed for university system. Currently this web application has following modules:
 - i. **Online Recruitment System:** This system is developed for recruitment process of university staff. It helps university to collect applications, to screen profiles and to prepare data for conducting test if needed.
 - ii. **Online Pay Slip System:** This module enables employees to view and download their salary slip anytime in a paperless way.
 - iii. **Online Student Feedback System:** Devised for the IQAC, this system enables to collect student's feedback in a transparent way where student log in through his/her own user name and password.
 - iv. **Online Entrance Examination:** This system was developed to reduce the time and effort required for conducting entrance examinations, short listing for admissions.
 - v. **Online Examination Management System:** It facilitates student to fill online examination form for end semester/yearly examinations. With help of user id and password colleges verify online filled examination forms, generate roll list and admit cards of students. It also enables students to download their own admit card and grade sheet with the help of own user id and password. This system also facilitates examiners feeding of internal and external examination marks online.
- Departments have adopted ICT enabled teaching to a greater extent during the session.
- Computer literacy Program (CLP) is being used to train UG students in Computerized Accounting and imparting practical training to B.Com. and B.Sc. Computer Science students.

4.6 Amount spent on maintenance in lakhs:

i) ICT	102.12
ii) Campus Infrastructure and facilities	184.53
iii) Equipments	305.16
iv) Others (Books and Journals)	454.49
Total:	1046.30

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

All notifications related to scholarships, freeships etc. and other student welfare related information were displayed prominently for students.

The Student's Welfare Board on advice of IQAC organized regular practice sessions for students in various sports.

5.2 Efforts made by the institution for tracking the progression

The academic departments of the University have been asked to keep an update of the passed out students by means of e-mail or social media. Also, the departments have been advised to form alumni associations. The Alumni Association of the University has been requested to finalize its website for the purpose.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
8878	2617	244	930

(b) No. of students outside the state

1079

(c) No. of international students

-

Men	No.	%	Women	No.	%
	6114	48.25		6519	51.45

Last Year						This Year					
Gen	SC	ST	OBC	Physically Challenged	Total	Gen	SC	ST	OBC	Physically Challenged	Total
1068	9151	231	935	04	12166	9460	1893	225	1055	36	12669

Demand ratio: - Dropout %: < 5%

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- The University has a UGC supported SC, ST and Minorities Remedial Coaching Cell that contributes towards social equity and mobility of the under privileged sections of the society through various schemes. In addition, the students of general category also avail the facility of the Cell. During 2016-17 the enrolment was as follows: Remedial Coaching (134), Coaching for Services (222), Coaching for NET & SET (80).

5.5 No. of students beneficiaries

436

5.5 No. of students qualified in these examinations

NET	57	SET/SLET	01	GATE	15	CAT	-
IAS/IPS etc	-	State PSC	03	UPSC	-	Others	05

5.6 Details of student counselling and career guidance

The University Career Counselling and Placement Service and the Admission Committee guide the students towards subject selection. Further, final year students are guided by their respective departments in selection of their prospective career. In addition, Employment Information and Guidance Bureau also extend support in this regard.

No. of students benefitted

100

5.7 Details of campus placement

	<i>On campus</i>			<i>Off Campus</i>
	Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
• Department level	-	-	-	-
• University Career Counselling and Placement Services	05	355	22	-

5.8 Details of gender sensitization programmes

- The Permanent Women Cell for Combating Sexual Harassment and Violence against Women conducted the following programmes:
- Induction Programme for girl students at Birla Campus, HN BGU (1-2 August 2016).
- Awareness creation programme for girls hostellers was conducted in the month of October, 2016. Coordinated by Prof. Annapurna Nautiyal

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports: State/ University level National level International level

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	51	2,44,000
Financial support from government	424 (Centre and different states)	NA
Financial support from other sources	-	-
Number of students who received International/ National recognitions	-	-

5.11 Student organised/ initiatives

Fairs: State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed: Nil

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision: To achieve excellence by empowering all stakeholders through promotion of innovations in the field of higher education by imparting training and education, and encouraging research for the development of the country with specific attention to the mountain region.

Mission: To stimulate the academic environment for promotion of holistic learning and research and to contribute to the nation's growth. To inculcate values and impart skills for shaping able and responsible individuals committed towards the intellectual, academic and cultural development of society.

6.2 Does the Institution has a management Information System

The University do not have a MIS.

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

Feedback received from faculty members and students is put before the BoS for incorporating in the syllabi after due deliberations in presence of external experts. Also, inputs by visiting experts regarding the requirements of the industries are duly considered by the BoS.

6.3.2 Teaching and Learning

- Use of ICT is encouraged amongst the faculty members.
- The faculty members are encouraged to attend faculty development programmes to update their knowledge.
- The students are informed about the various open learning e-resources available, further relevant assignments are also given to students.
- Field/Industrial visits for the students are organized to gain hands on experience.
- For improving soft skills and confidence building, the students are encouraged to participate in class seminars, group discussions etc. Besides, special sessions/ workshops are also held for personality development of the students.

6.3.3 Examination and Evaluation

Online submission of examination forms by PG and UG students under CBCS is being done.

6.3.4 Research and Development

- The faculty members are encouraged to participate in Workshops, Seminars, Conferences etc. so as to update themselves with the developments in their respective field of research.
- Newly recruited faculty members are encouraged to avail the start up grants for research by the funding agencies.

6.3.5 Library, ICT and physical infrastructure / instrumentation

- The departments provide list of reference books, journals etc. on a yearly basis for purchase by Central Purchase Committee.
- Regular upgradation of ICT and physical infrastructure is being done.
- The USIC serves as a common facility and is regularly strengthened by procuring instruments. Besides, the departments annually submit their requirements to the University for approval and subsequent purchase.

6.3.6 Human Resource Management

- The faculty members are encouraged to take various assignments besides teaching to enhance their overall qualities so as to benefit the institution and the society.
- The young faculty members are assigned relevant administrative works so as to expose them to the functioning of the University.
- The personality development, decision making and stress management workshops are organized for students and support staff.

6.3.7 Faculty and Staff recruitment

Nil

6.3.8 Industry Interaction / Collaboration

Industry-Academia Linkage Cell organized 'AAROHAN' – an industry-academia interface, bringing the prospective employers from the industry and the students face to face. Besides, interaction with the industry is sought through collaborative programmes like seminars, workshops, internships and research projects. University also encourages inviting experts/resource persons from industries to interact with students.

An MoU was signed with SIDCUL, Haridwar.

6.3.9 Admission of Students

Admission to all PG courses, PhD programmes and Professional courses is done through an All India entrance test conducted by the University. The entrance exam forms are submitted online and the candidates generate their hall tickets online. The final selection for PhD programmes is made after interview of the shortlisted candidates. Admissions to UG courses are on merit basis of qualifying examination. The lists of selected students is displayed on the university website besides the notice boards of respective departments.

6.4 Welfare schemes for

Teaching	Contributory health scheme in the pattern of CGHS is in place for employees.
Non teaching	Employee Welfare fund
Students	Scholarships, Freeships etc.

6.5 Total corpus fund generated

Establishment of Corpus Fund is under process.

6.6 Whether annual financial audit has been done Yes

☒

No

☐

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	NA	No	NA
Administrative	No	NA	No	NA

6.8 Does the University/ Autonomous College declare results within 30 days?

For UG Programmes

Yes

☒

No

☐

For PG Programmes

Yes

☒

No

☐

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

Continuous evaluation of students is in place in all PG programs under CBCS.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

The University extends support to the affiliated colleges for all academic purposes.

6.11 Activities and support from the Alumni Association

'H.N.B. Garhwal University Alumni Association' was registered on 03-03-2016. The registration will be open, with the website becoming operational soon.

6.12 Activities and support from the Parent – Teacher Association

A formal Parent – Teacher Association do not exists in the University. However, the Dean Students' Welfare interacts with parents whenever required. Also, the parents and the Head of the Departments interact with each other in case of any need.

6.13 Development programmes for support staff

Meetings and discussions are held regularly for the development of support staff.

6.14 Initiatives taken by the institution to make the campus eco-friendly

The University has done plantation, adopted energy efficient measures and established rain water harvesting system in pursuit of making the campus eco-friendly. Proper waste disposal system is at place. Appropriate sign boards have been displayed inside and outside the buildings. Bio-composting pits have also been constructed on experimental basis. NSS, NCC and the departments also regularly undertake plantation in the campus. Proper maintenance of the plants is done by the trained staff.

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- Department of Commerce, Chauras Campus had formed a Commerce Club, where they conduct academic and extracurricular activities throughout the year and it is a convenient place for both parties i.e. faculty and students to hold regular and constructive interaction.
- Department of Botany, Pauri Campus took initiatives to improve rapport between students and faculty members, which resulted in the increase of students presence in the classes as well as in Extra-curricular activities.
- Department of Biochemistry introduced the concept of virtual class rooms and also initiated the preparatory classes for competitive examinations.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

Please see Annexure iv

7.3 Give two Best Practices of the institution

- The Department of Business Management had adopted new teaching methods by encouraging students to undertake activities like \$1 activity where the students are required to produce a product and market it.
As a result the students will be exposed to the practical problems that will be faced at the ground level of marketing. This method of teaching got a very good response from the students.
- *Sair Saleeka* (A Movement for Responsible Journey on Planet Earth): Centre for Mountain Tourism and Hospitality Studies (CMTHS) of HNB Garhwal University is the first higher education institution in the country to include an innovative concept of *Sair Saleeka* programme in the curriculum of two year MBA (Tourism) from the academic session 2017-18 onwards. *Sair Saleeka* is an initiative to spread awareness among the tourists about the cleanliness of the environment of the destinations.
A short film, developed by CMTHS, on *Sair Saleeka* was awarded the *Certificate of Excellence* by the Ministry of Information and Broadcasting, Government of India and National Film Development Corporation Limited at the Swachh Bharat Short Film Festival Competition held in New Delhi on 2nd October 2016 (<https://www.youtube.com/watch?v=6sFdGBVOB6c>).

7.4 Contribution to environmental awareness / protection

Please see Annexure v

7.5 Whether environmental audit was conducted?

Yes

☐

No

☒

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

Being located in the Himalaya, the University has an added advantage for pursuing research in as diverse fields as floral and faunal biodiversity; rivers, lakes and glaciers; mountain ecosystem and services; hill society and culture; polity and local governance and the like. The relatively remoteness of the region and connectivity depending on roads certainly limits the visits by experts from other parts of the country. Nonetheless, the faculty members and students pursue their task with zeal and dedication to overcome such hindrances. All the three campuses of the University are about to become Wi-Fi enabled, thereby enhancing the access to e-resources and improving the coordination further.

8. Plan for next year

1. To enhance diversity and flexibility ensuring skill development in the curriculum, so as to make it an outcome based curriculum. Efforts are on to incorporate the Industry requirements into the curriculum by inviting professionals from the industry as experts in Board of Studies. Special emphasis would be laid on departments of Engineering Schools, Pharmaceutical Sciences, Tourism & Hoteliering, and Journalism & Mass Communication.
2. To upgrade the learning resources by creating more ICT supported classrooms in all the departments. Once the campuses are wi-fi enabled, e-learning courses (SWAYAM) would be incorporated in the academic curriculum.
3. To fill up of the vacant teaching positions on priority basis, so that the permanent faculty members contribute in enhancing the teaching and research outcome of the University. Already scrutiny of the applications received in response to the advertisement made earlier is under process.
4. To establish a state-of-the-art library adopting best practices into library management, thereby improving access of the students for digital learning. The ongoing library automation will be expedited. The University library with INFLIBNET needs to be upgraded further so that the available e-resources.
5. To establish a functional Entrepreneurship Cell in the university with an aim to turning job seekers into job givers by inculcating entrepreneur abilities in the interested students, and also to guide them about the funding agencies to support their Start-Ups. Already the university is in collaboration with the PMYUVA Yojana in this regard and chalking out the plans to start an e-Cell from the next academic session.

Name (Prof. O.P. Gusain)

Ambrakash Gusain

15.12.17

Signature of the Director IQAC

Name (Prof. J.L. Kaul)

JL 15/12

Signature of the Chairman IQAC

1. ACADEMIC CALENDAR SESSION 2016-17

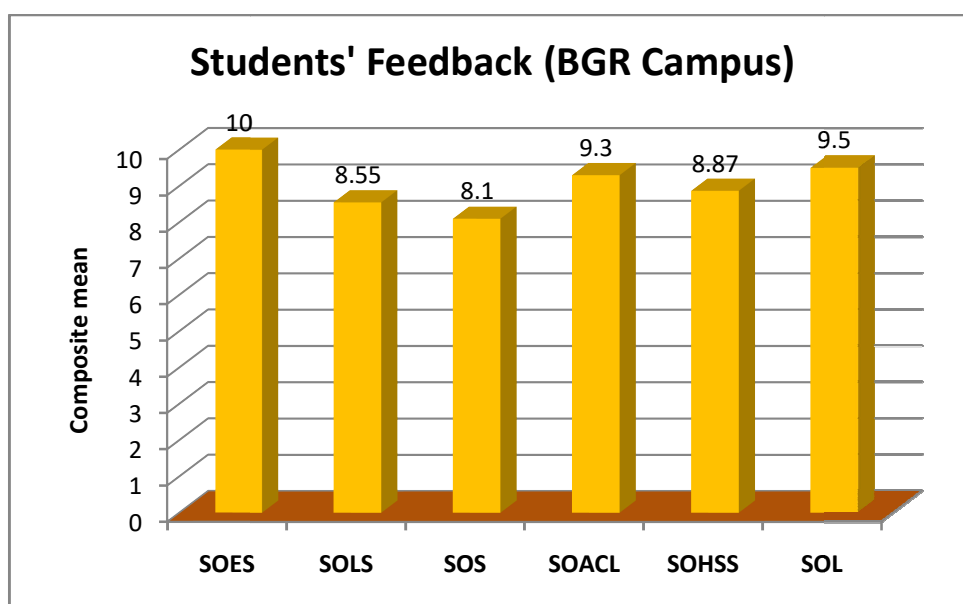
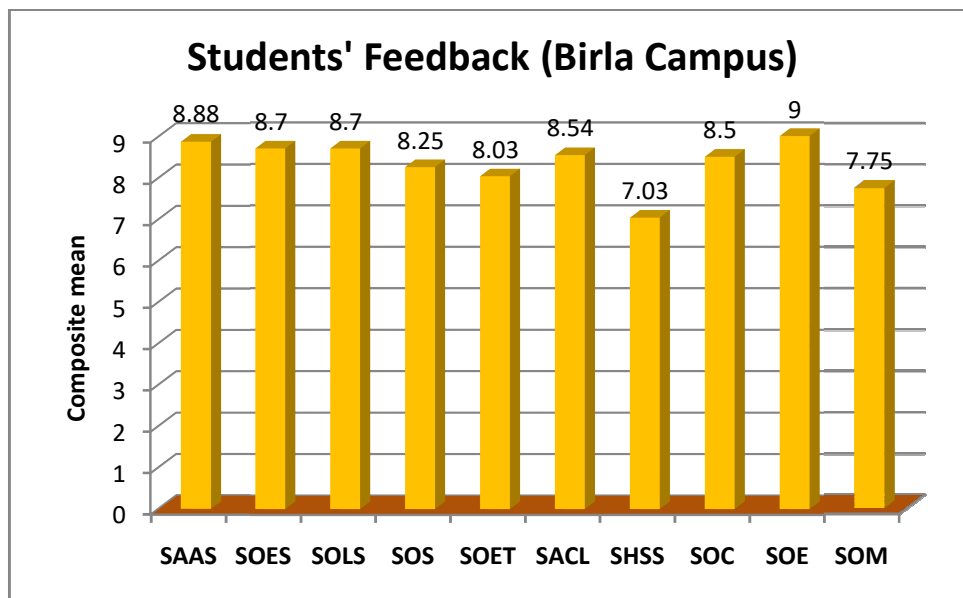
(Approved by the Admission Committee held on 18.04.2016)

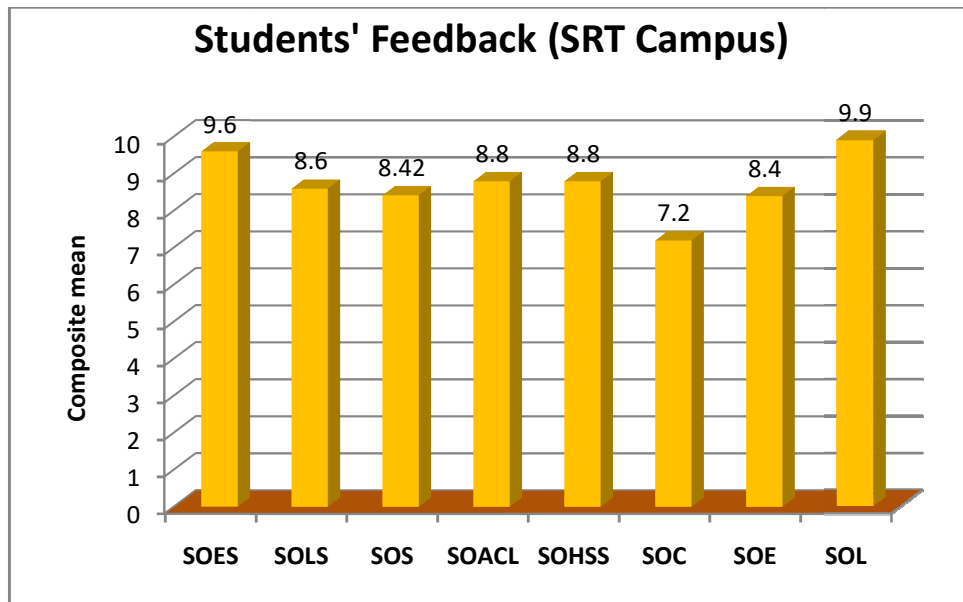
- | | |
|--|---|
| 1. Sale of admission forms | June 10, 2016-onwards |
| 2. Commencement of the academic session | July 07, 2016 |
| 3 (a) Last date of submitting admission forms for B.A./B.Sc./B.Com. and all UG & PG Courses (only semester system) is | July 12, 2016 |
| semester. | August 01, 2016 |
| (b) Last date of admission for all classes (All semester classes) | August 08, 2016 |
| (c) Last date of submitting admission forms for students of B.A./B.Sc./B.Com. III year (Annual system) | |
| OR | |
| Within twenty (20) days of issuing of marksheets of the previous class by the University, whichever is later; | |
| 4. Commencement of classes | July 20, 2016 |
| 5. For Courses under Annual System | |
| (a) Commencement of online examination forms | Sep. 14, 2016 |
| (b) Last date of submission of online examination forms | Sep. 30, 2016 |
| (c) Submission of examinations online forms and other required documents from the campuses/affiliated colleges/institutions to the University. | Oct. 5, 2016 |
| (d) Last date for the submission of examination forms by the students to their respective colleges/institutions upon payment of late fees of Rs. 500/- upto 15 days. | Oct. 20, 2016 |
| (e) Last date for the submission of examination forms by the students to their respective colleges/institutions upon payment with late fee upto 30 days is Rs.1000/- | Nov. 04, 2016 |
| (f) Last date for the receipt of the duly completed examination forms along with the late fees from affiliated colleges/institutions by the University | Dec. 31, 2016 |
| (g) Conduct of UG annual examination | April 10, 2017 Onwards |
| 6. For Courses under Semester System | |
| (i) Course duration (including examinations) for UG & PG, professional & vocational courses | 20-07-2016 to 30.12.2016 |
| (a) Odd Semester | 16-01-2017 to 31-05-2017 |
| (b) Even Semester | 31.12.2016 to 14.01.2017 |
| 7. Winter Break | 01.06.2017 to 10.07.2017 |
| 8. Summer Break | |
| 9 (I) All U.G., P.G. & P.G. Diploma Courses (Odd Semester) | |
| (a) Commencement of classes | July 20, 2016 |
| (b) Date for submitting examination online forms | Sept. 1 st to Sept. 15, 2016 |
| (c) End semester examinations (UG/PG)* | Dec. 12, 2016 |
| 9 (II) All U.G., P.G. & P.G. Diploma Courses (Even Semester) | |
| (a) Commencement of classes | Jan. 17, 2017 |
| (b) Date for submitting examination online forms | March 1 st to March 15, 2017 |
| (c) End semester examinations (UG/PG)* | May 10, 2017 |
| 10. University foundation day celebration | Dec. 01, 2016 |
| 11. Birthday ceremony celebration of late Shri Hemvati Nandan Bahuguna | April 25, 2017 |

*Note: All the sessionals / internals will be completed before one week of commencement of the end semester examination



1.3 STUDENTS' FEEDBACK ON TEACHERS (EVEN SEMESTER 2017)





Annexure –III

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations.

ONGOING RESEARCH PROJECTS (2016-17)

SCHOOL OF AGRICULTURE AND ALLIED SCIENCES			
Department of Forestry and Natural Resources			
Sr. No.	Name of the Project (Name of PI)	Funding Agency	Amount (INR in lakhs)
1	All India coordinated project on Ecosystem services of sacred groves in Uttarakhand. 2012-2017 (Prof. N.P. Todaria; Dr. A.K. Negi & Dr. Sabyasachi Dasgupta)	MoEF, New Delhi	31.49
2	Income generation for rural communities through cultivation and conservation of medicinal plants. 2013-2016 (Dr. A.K. Negi)	DBT, New Delhi	18.15
3	Assessing & monitoring climate change effects on tree line species in Garhwal Himalayas (Dr. Sabyasachi Dasgupta)	MoEF, New Delhi	26.84
4	Networking projects on Non timber forest products, 2012-2016 (Dr. D. S. Chauhan)	ICFRE,	5.05
5	Developing a strategy for Fiber based Livelihood Enterprises through <i>Grewia oppositifolia</i> (Bhimal) for SC and ST communities in Narendranagar Block of Tehri Garhwal (Dr. Munesh Kumar) 2016-17	NRDMS	10.54
High Altitude Plant Physiology and Research Centre			
6	Alpine ecosystem dynamics and impact of climate change in Indian Himalaya (PRACRITI-II). (Prof. M.C. Nautiyal)	SAC, ISRO, Ahmedabad	23.87
7	Rashtriya Paudhshala yojna, Amesh Kutki; (Prof. M C Nautiyal)	HRDI, Gopeshwar	20.00
8	Promotion and conservation of <i>Nadostachys grandiflora</i> (Jatamansi) by focus extension of propagation technology and development of clusters with particu reference to higher Himalayan region of Uttarakhand. 2015-17 (Dr. V.K. Purohit)	NMPB, New Delhi	48.82
9	Biofortification of rice grains with zinc by the application of plant growth promoting Rhizobacteria as zinc solubilizing agents. BSR GRANT 2014-16 (Dr. Babita Patni)	UGC, New Delhi	6.00
10	Occurrence of aflatoxin producing fungi and aflatoxin in raw herbal materials used for Ayurvedic drug preparation. BSR GRANT 2014-16 (Dr. Harish Chandra)	UGC, New Delhi	6.00
11	Adarsh Paudhshala Pariyojna (Prof. AR Nautiyal) 2014-16	HRDI, Gopeshwar	20.00
Department of Seed Science & Technology			
12	Germplasm Collection of Fresh Bean from Garhwal Hills and Its Screening for Anthracnose Resistance Using Morphological and Molecular Markers. (Dr. Deepti Prabha) 2016-17	UCB, Uttarakhand	5.90
SCHOOL OF SCIENCES			
Department of Chemistry			
13	A Comprehensive Study of Natural Radiation Level in Pauri and Udham Singh Nagar Districts of Uttarakhand. 2012-15 (Dr. Veena Joshi)	Board of Research in Nuclear Science (BRNS), DAE	33.43
14	Herbal Anti diabetic agents from Unexplored Plants of Uttarakhand Himalaya	CSIR, New Delhi	27.00

	(Prof. D.S. Negi)		
15	Development of ion sensors for the determination of toxic metals in environmental samples. FRPS-2015-17 BSR GRANT 2015 (Dr. Jitendra Kumar)	UGC, New Delhi	6.0
16	Optical properties of heterocyclic and aryl based donor-acceptor conjugated systems. FRPS-2015-17 BSR GRANT 2015 (Dr. Prashant K Hota)	UGC, New Delhi	6.0
Department of Physics			
17	Establish Radon Calibration Centre at Department of Physics and to strengthen radon studies in states of Delhi, Uttar Pradesh, Uttarakhand, Himachal Pradesh and Jammu & Kashmir. 2011-2016 (Prof. R.C. Ramola)	Bhabha Atomic Research Centre, Mumbai	48.93
18	Strengthening the Infrastructural Facility at Nodal Centre at H.N.B. Garhwal University to pursue Radon/Thoron Studies in Northern India. 2014-2017 (Prof. R.C. Ramola)	Board of Research in Nuclear Science (BRNS), Dept. of Atomic Energy	85.04
19	Modeling of radon exhalation into soil chambers for continuous flux & soil gas measurements and its validation through multiparametric measurements: A case study of Garhwal Himalaya region. (PI: Dr. A.A. Baurai; Co-PI: (Dr. Veena Joshi, Chemistry)	BRNS, DAE	21.56 4.69
20	Neutrino Masses and Mixing in the Standard Model and Beyond. (Prof. S. Dev)	CSIR, New Delhi	3.66
21	Formation Mechanism and Characteristics of Aerosols in Different Seasons and its impact on Cloud formation, Processes and Climate at Himalayan region Uttarakhand. (Dr. Alok Sagar Gautam) 2016-17	SERB-DST, New Delhi	25.68
Department of Home Science			
22	Educating adolescent girls and young women on health and hygiene related issues in district Pauri of Uttarakhand (Dr. Rekha Naithani)	UCOST, Dehradun	3.00
Department of Mathematics			
23	Numerical investigation of linear stability of buoyancy assisted mixed convective flow in a vertical pipe filled with porous medium. BSR GRANT 2015 (Dr. Ashok Kumar)	UGC, New Delhi	6.00
24	Numerical investigation of instability of Poiseuille flow in a vertical pipe filled with porous medium. 2014-18. (Dr. Ashok Kumar)	DST- SERB, New Delhi	27.38
Department of Pharmaceutical Sciences			
25	Preparation and evaluation of effective herbal formulations for alopecia (baldness) and identification of chief constituent(s), 2015-2018 Dr Mona Semalty (PI), Dr Ajay Semalty (Co-PI)	UGC, New Delhi	10.95
26	Small angle Neutron scattering study of the interaction between drug and cyclodextrins in drug-cyclodextrin complexes, 1st Jan. 2017 to 31 Dec 2019, Dr Ajay Semalty (PI), Dr Mona Semalty (Co-PI)	UGC-DAE CSR, Mumbai in collaboration with Bhabha Atomic Research Centre (BARC) Mumbai	10.74
SCHOOL OF EARTH SCIENCES			
Department of Geology			

27	Risk zonation mapping of Mandakini valley with special reference to geological and geotechnical analysis of Byung subsidence zone and Jaggi-Bagwan landslide, Central Garhwal Himalaya. May 2013 to April 2016 (Prof. Y.P. Sundriyal)	DST, New Delhi	30.83
28	Glaciers in Upper Alaknanda-Sarwati Basin and Climate Change. 2014-17 (Prof. H. C. Nainwal)	Dept. of Atomic Energy, GOI, Chennai	20.00
29	Estimation of Ice depth and surface velocity using GPR & DGPS of Satopanth glacier – 2015-2018, (Prof. H.C. Nainwal)	SERB-DST, New Delhi	62.00
30	Large scale Geological and Geotechnical mapping of vulnerable landslide zone along Sonprayag to Kedarnath and to suggest the preventive measure (Prof. Y.P. Sundriyal)	DST, New Delhi	17.00
31	Integrated Hydrological Studies for Upper Ganga Basin up to Rishikesh under National Mission for Sustaining the Himalayan Ecosystem – NMSHE (Prof. H.C. Nainwal)	National Institute of Hydrology, Roorkee	16.75
32	Maintenance, monitoring and collecting of field data related to Monitoring of Kunjethi Landslide in Kali Valley in Central Garhwal Himalaya (PI: Prof. YP Sundriyal).	DST, New Delhi	15.00
33	Deformation across the Karakoram Fault and Kaurik Chango Rift and its implications on the NW Himalayan Tectonics (2016-20) (Co-PI- Dr. S.P. Sati)	Ministry of Earth Science, New Delhi, (Collaborative project of HNBGU, NGRI Hyderabad & SASE Chandigarh)	3.50 HNBGU component
SCHOOL OF LIFE SCIENCES			
Department of Botany and Microbiology			
34	Diversity of microalgae and cyanobacteria across the thermal- and chemical-gradients in geothermal fields of Uttarakhand Himalaya. 2014-2015 (Dr. Dhananjay Kumar)	UGC, New Delhi	6.00
35	Bacterial diversity and community succession in sulfur springs and caves around Sahasradhara. 2014-2015 (Dr. Seema Rawat)	UGC, New Delhi	6.00
36	Screening of thermophilic cyanobacteria containing nonribosomal peptide synthetase gene clusters for their antimicrobial activity. 2014-2015 (Dr. Rahul Kunwar Singh)	UGC, New Delhi	6.00
37	Enhancement of Anti Cancerous Compound through Different Biotechniques in Podophyllum hexandrum. 2012-2017. (Dr. Hemlata Bisht, PDF)	UGC, New Delhi	
38	Assessment of dominance – diversity and biomass structure of Temperate Grazinglands, Garhwal Himalaya. 2012-2017. (Dr. Smriti Kuksal, PDF)	UGC, New Delhi	
39	Establishment of Demonstration Unit and Germplasm Resource Centre for Commercial Cultivation of Highly Valuable <i>Stevia rebaudiana</i> , Bertoni 2012-2017 (Dr. Hemlata Bisht)	GBPI-IERP	5.82
40	Preparing chromosomes atlas of medicinal plants of Uttarakhand. 2015-2017 (Dr. Asha)	UGC, New Delhi (Start up Grant)	6.0
41	Wild edible mushrooms of Uttarakhand Himalaya Diversity distribution nutritive value and medical potential. 2016-17 (Prof. RP Bhatt)	NMHS, GBPIHED	13.20

Department of Zoology and Biotechnology			
42	Creation of Bioinformatics Facility (BIF) for the promotion of Biological Teaching through Bioinformatics (BTBI) Scheme of BTISnet. (Dr. P.C. Lakhera)	DBT-BIF	13.75
43	Monitoring the self purification capacity of river Alaknanda implementing physical, chemical and biological approaches, BSR GRANT 2015-17 (Dr. J.S. Chauhan)	UGC, New Delhi	6.00
44	To study the oxidative stress response on enzymatic, non-enzymatic antioxidants and analysis of Physio-morphological changes of <i>Cicer arietinum</i> , under the Heat-stress, BSR GRANT 2015-17. (Dr. Saurab Yadav)	UGC, New Delhi	6.00
45	Biochemical and structural characterization of the peroxiredoxins(s) involved in anti-oxidative defense in protozoan parasites <i>Entamoeba histolytica</i> and <i>Trichomonas vaginalis</i> BSR GRANT 2015-17. (Dr. Sudhir Kumar)	UGC, New Delhi	6.00
46	Evaluation of hormone induced gonadal differentiation in adult gold fish <i>Carassius auratus</i> BSR GRANT 2015-17. (Dr. Indrashish Bhattacharya)	UGC, New Delhi	6.00
47	Physicochemical and microbiological assessment of some selected water springs of central Himalayan region) 2016-17 (Dr. GK Joshi)	NMHS, GBPIHED	41.63
48	Population Dynamics and Biogeography of Himalayan Mouse hare <i>Ochotona royalii</i> in relation to their impact on the medicinal flora of Western Himalaya 2016-17 (Prof. SN Bahuguna)	NMHS, GBPIHED	26.54
49	Ecological monitoring and status of fish fauna in hydropower affected Alaknand River 2016-17 (Prof. Prakash Nautiyal)	NMHS, GBPIHED	21.32
Department of Biochemistry			
50	Influence of the Ageing on Biochemical and Physiological changes in Plants: Insight into the interlinking of Redox Regulation BSR GRANT 2015-17 (Dr. Manisha Nigam)	UGC, New Delhi	6.00
51	Identification of Phylloquinone role on <i>L. donovani</i> inhibition. BSR GRANT 2015-17. (Dr. Nisha Singh)	UGC, New Delhi	6.00
SCHOOL OF HUMANITIES AND SOCIAL SCIENCES			
Department of Political Science			
52	Gaps between Environmental Policies and Human Actions: A Study of the Impact of Natural Disaster in Garhwal Himalayas on the Women of Rudra Prayag District and their Coping Strategies. 2014-2017 (Prof. Annpurna Nautiyal)	ICSSR, New Delhi	49.00
Department of History & Archaeology			
53	Archaeological investigations of upper Sutlej valley in the trans-Himalayan region of Kinnaur to study the emergence of burial culture and pyrotechnology; 2013- 2016 (Prof. Vinod Nautiyal)	UGC, New Delhi	10.89
54	Ramayana Tradition in Garhwal Himalaya: A Historical Study 2016-17 (Prof. DP Saklani)	ICHR	0.59
SCHOOL OF MANAGEMENT			
Centre for Mountain Tourism & Hospitality Studies			
55	Planning for community based ecotourism through integrated values and development in Jaunsar region of Uttarakhand. 2015-2017. (Prof. S.K. Gupta)	ICSSR, New Delhi	5.00
56	Strategies planning and tourist perspective of tourism development of Bhillanga valley of Garhwal Himalayas. 2014-2016. (Dr. Rashmi Dhodi)	ICSSR, New Delhi	5.00

COMPLETED RESEARCH PROJECTS (2016-2017)

Sr. No.	Title of Project	Funding Agency	Budget (INR)	Duration/ Year	PI/Coordinator
SCHOOL OF AGRICULTURE AND ALLIED SCIENCES					
Department of Forestry & Natural Resources					
1	Adarsh Paudshala Pariyojana (Ideal Nursery Project)	HRDI, Gopeshwar	20.00	2014-16	Dr. A.K. Singh
SCHOOL OF SCIENCES					
Department of Chemistry					
2	Strengthening the Infrastructural Facility at Nodal Centre at H.N.B. Garhwal University to pursue Radon/Thoron Studies in Northern India.	Board of Research in Nuclear Science (BRNS), Department of Atomic Energy	85.04 (In Physics)	2014-17	Dr. Veena Joshi
Department of Physics					
3	A comparative study among different techniques for radon/thoron progeny measurements in the normal and high background irradiation areas	BRNS, Mumbai	8.50		Prof. R.C. Ramola
SCHOOL OF EARTH SCIENCES					
Department of Geology					
4	Strain budget, plate convergence and earthquake occurrence processes in the Garhwal-Kumaun Himalaya (Collaborative project of HNBGU and NGRI Hyderabad)	DST, New Delhi	54.95 (HNBGU component)	2011-16	Dr. S.P. Sati, Co-PI
SCHOOL OF HUMANITIES AND SOCIAL SCIENCES					
Department of Economics					
5	Analysis of the dietary pattern and Nutritional status of females and factors affecting them in the Hill Rural Areas of Uttarakhand: A study of district Pauri Garhwal, Tehri Garhwal and Rudraprayag	National Commission for Women, New Delhi	2.25	2015-16	Dr. Prashant Kandari
SCHOOL OF LAW					
Department of Law					
6	A study of cyber system: New science and technology input in the developing hill state Uttarakhand 2014-2016	UCOST, Dehradun	2.41	2014-16	Dr. Sanjeev Chadda

7.2 Action Taken Report 2016-17

- 1. Proposed:** To conduct workshops/ Training programmes: Hands-on-training for students (Biochemistry); for farmers and rural artisans for sustaining livelihood (HAPPRC, Horticulture & Rural Technology); neuro-linguistic workshops for confidence building of students (Mathematics, Birla Campus).

Action Taken: Many of the departments held thematic lectures by the visiting experts thus benefiting the students. Besides, few of the departments also introduced innovations—A WAR Room has been set up for facilitating the practical work of the students (Defence & Strategic Studies, Birla Campus); Neuro-linguistic programmes for the students to sharpen their mental skills were organized (Mathematics, Birla Campus); Extra classes were conducted for helping the students to prepare for GPAT exams (Pharmaceutical Sciences, Birla Campus); Students and faculty members made live working mechanical models for better understanding the actual working of the machinery (Mechanical Engineering, Birla Campus); Student's own platform viz. Commerce Club set up, where they performed beyond curriculum and extracurricular activities along with regular interaction with the faculty members (Commerce, Birla Campus).

High Altitude Plant Physiology Research Centre(HAPPRC) of the University has transferred agrotechnology, commercial cultivation of high altitude medicinal plants especially *Picrohiza kurroa* (*Kutki*) at villages under the 'Lab to Land' approach. HAPPRC has initiated establishment of *ex-situ* backup under National Mission on Himalayan Studies Programme of MoEFCC, Govt. of India. This *ex-situ* site will be strengthened as *Nature Interpretation Site*. Department of Horticulture and Rural Technology conducted training programmes for farmers and local people.

- 2. Proposed:** To encourage the departments to conduct faculty development programmes in association with the Faculty Development Centre (FDC) established under PMMMNMTT.

Action Taken: The Faculty Development Centre (FDC) established under PMMMNMTT conducted two faculty development programmes during 2016-17. Teaching departments were encouraged to conduct Refresher Courses with FDC.

- 3. Proposed:** To set up advance laboratories: Fungal Culture, Molecular Biology & Proteomics, Bioinformatics (Botany & Microbiology, Birla Campus); Statistical lab (Statistics, Birla Campus); Community Radio (CJMC); Graphics & High End Terminals lab (CSE); Museum & Herbarium (Botany, SRT Campus); Insect & Coldwater fish Museum, Bioinformatics lab (Zoology, SRT Campus, Tehri).

Action Taken: The efforts are in pipe line.

- 4. Proposed:** To introduce new courses: M.Sc. Biostatistics (Statistics, Birla Campus); 2 year MBA in Hospitality Management (CMTHS); 3 year Bachelor degree programme in Culinary Arts (CMTHS); B.Com. Honours (Commerce, Birla Campus); PG Diploma in Guidance & Counselling (Psychology).

Action Taken: The proposal to launch B.Com (Honours) has been approved by the Board of Studies of the Commerce Department. Efforts are on to work out on the modalities to open the other proposed courses.

- 5. Proposed:** To establish new linkages with industry and research institutes (ME, IT, IE, Chemistry, Sociology & Social Work, CMTHS).

Action Taken: Department of Business Management signed MoU with State Industrial Development Corporation of Uttarakhand Limited (SIDCUL), Haridwar for Industry-Academia Linkage programme, 'Aarohan' (2016).

- 6. Proposed:** Initiate Academic audit of PG departments.

Action Taken: The Audit could not be done. Efforts are being made to ensure that it would be completed in the current academic year.

7. **Proposed:** Strengthening of the University Career Counselling and Placement Service to make it more effective.

Action Taken: The University Placement Cell is becoming more active by working in collaboration with the other departments of the University, instead being a centralized entity.

8. **Proposed:** To make the Alumni Association more proactive.

Action Taken: The web link to bring together all the Alumni of HN BGU is under process.

9. **Proposed:** To mobilize the departments to apply for special grants viz. UGC-SAP, DST-FIST.

Action Taken: The departments are being encouraged to apply for special grants viz. UGC-SAP, DST-FIST.

7.4 Contribution to environmental awareness / protection

- ❖ **High Altitude Plant Physiology Research Centre (HAPPRC)** has initiated establishment of *ex-situ* backup under National Mission on Himalayan Studies Programme of MoEFCC, Govt. of India This *ex-situ* site will be strengthened as *Nature Interpretation Site*. HAPPRC of the University has transferred agrotechnology, commercial cultivation of high altitude medicinal plants especially *Picrohiza kurroa* (*Kutki*) at villages under the ‘Lab to Land’ approach.
- ❖ **Sair Saleeka** (A Movement for Responsible Journey on Planet Earth): Centre for Mountain Tourism and Hospitality Studies (CMTHS) of HNB Garhwal University is the first higher education institution in the country to include an innovative concept of *Sair Saleeka* programme in the curriculum of two year MBA (Tourism) from the academic session 2017-18 onwards. *Sair Saleeka* is an initiative to spread awareness among the tourists about the cleanliness of the environment of the destinations.
- ❖ Recently the University has been associated with ‘**Namami Gange**’ to conduct awareness programme in the capacity of Collaborating Institution for Namami Gange Project with Govt. of Uttarakhand.
- ❖ The University is spearheading campaign of **Swatch Bharat Abhiyaan**. Regular cleanliness drives by NSS, NCC and Youth Club were organized.
- ❖ Department of Forestry & Natural Resources received INR 3.70 lakh for the supply of 50,000 seedlings from Uttarakhand Forest Department in 2016-17.