

INTERNAL QUALITY ASSURANCE CELL (IQAC)

ANNUAL QUALITY ASSURANCE REPORT (AQAR) 2017-18



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.hnbggu@gmail.com
registrar@hnbggu.ac.in

Contact Nos.

01346-252143

Name of the Head of the Institution:

Prof. Annpurna Nautiyal
Vice Chancellor

Tel. No. with STD Code:

01346-250260

Mobile:

+91 9412079300

Name of the IQAC Director:

Prof. O.P. 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/userfiles>

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)

2017-18

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 2016-17: 21.12.2017
- ii. 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)

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

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

Autonomy by State/Central Govt. / University

University with Potential for Excellence UGC-CPE

DST Star Scheme UGC-CE

UGC-Special Assistance Programme	<input type="text" value="√"/>	DST-FIST	<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. IQAC Composition and Activities

2.1 No. of Teachers	<input type="text" value="09"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="10"/>
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="30"/>
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

- Two Days ‘*Training Program for Faculty Members on Ethics and Values in Public Governance*’ at Academic Activity Centre, Chauras, HNBGU (28-29 May, 2017).
- ‘*Workshop on Process of Recommendation for Inclusion of Additional Peer-Reviewed Journals in the existing UGC Approved List of Journals*’ at Senate Hall, Birla Campus, Srinagar (April 2017).

2.14 Significant Activities and contributions made by IQAC

- A meeting of IQAC was held on 15th December 2017.
- The AQAR for the academic year 2016-17 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 21.12.2017.
- Student’s Feedback on Teachers obtained through offline mode was analysed.
- Student’s Feedback on Curriculum was obtained and analysed for the first time.
- Director IQAC acted as the Nodal Officer for submitting the data to NIRF 2017. The University was placed in the Rank Band 151-200.
- Director IQAC acted as Nodal Officer submitted data to NIRF 2018 on December 07, 2017.
- Additional charge of Director, Faculty Development Centre (PMMMNMST) was given to Director IQAC (14.07.2017 to 07.02.2018).
- Director IQAC attended the ‘*Orientation & Training Workshop for Nodal Officers of the Central University Portal of UGC*’ at Jamia Millia Islamia, New Delhi (September 06, 2017). The data was successfully uploaded on the portal on 29.09.2017.
- IQAC facilitated the uploading of University data on Central University Portal.
- Organized lecture on ‘*New Technology of Teaching Excellence*’ by Prof. D.S. Negi, Head, Department of Mathematics for Faculty Members and Research Scholars in ACL Hall, Birla Campus on 01-04-2017.
- Organized Two Days ‘*Training Program for Faculty Members on Ethics and Values in Public Governance*’ at Academic Activity Centre, Chauras, HNBGU (28-29 May, 2017). Mr. Krishna Mohan Rtd. IAS, a National trainer/facilitator on Ethics was the Resource Person. 32 faculty members from the 3 campuses attended the programme.
- IQAC coordinated the data collection for tripartite MoU between the University, UGC and MHRD.
- Director IQAC acted as member in Committee for scrutiny of the API scores for CAS.

2.15 Plan of Action by IQAC/Outcome

Plan of Action	Achievements
<ul style="list-style-type: none"> Quality Assurance 	<ul style="list-style-type: none"> Induction/ Orientation programme for the 1st Semester students were organized by the teaching departments. Feedback was obtained from students' on teachers & Curriculum. Convened a meeting of faculty members of Schools of Science, Life Sciences, Agriculture & Allied Sciences and Earth Sciences and Pls of projects to discuss the ways and means to facilitate running of research projects in the University. The Industry-Academia linkage has been strengthened by organizing <i>Aarohan</i>, an Industry-Academia linkage event.
<ul style="list-style-type: none"> Beyond Curriculum Initiatives 	<p>The IQAC recommended the following to the University for implementation:</p> <ul style="list-style-type: none"> The suggestions of the NAAC Peer team were duly forwarded for action. A committee to be constituted to finalize the modalities for including the 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. Conduction of Academic Audit of teaching departments of the University by the Internal Academic Audit Cell.

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	08	-	-	08
Advanced Diploma	-	-	01	-
Diploma	06	-	04	06
Certificate	05	-	02	05
Others*	04	-	-	04
Total	133	-	19	23**
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	89
Trimester	-
Annual	07

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.

The departments have revised the syllabi of the programmes as follow:

Seed Science & Technology: A new paper 'Research Methodology & Computer Applications' introduced in syllabus of Pre-Ph.D. course in Seed Science and Technology. M.Sc. (Ag.) Seed Science & Technology: The course on 'Seed Quality Testing' is included in place of 'Seed deterioration in II Semester; 'Agriculture Research', 'Research Ethics' and 'Rural Development Programmes' added in place of Biostatistics as a self study course in IV Semester.

Defence & Strategic Studies: Updated the syllabus by including courses on Defence Journalism, Terrorism, Disaster Management etc.

Chemistry: Physical chemistry in MSc I semester revised.

Physics: Additional Practical in B.Sc. V & VI Semester and M.Sc. IV Semester.

Pharmaceutical Science: PCI approved B. Pharm. and M. Pharm. syllabus adopted w.e.f. academic session 2017-18.

Electronics & Communication Engineering: Syllabus updated for 2018 batch onwards.

Computer Science & Engineering: The syllabus modified with the aim to include courses based on latest technology and subject area popular in industry.

Instrumentation Engineering: The syllabus updated to acquaint students with new and current knowledge as well as to enhance their practical skills like Power Plant Instruments, Renewable Energy Engineering, Virtual Instrumentation, Industrial Drives and Controls etc.

Philosophy: Minor changes in terms of optional suitable to contemporary requirement.

Sociology & Social Work: 'Sociology of Sanitation' was introduced at Post Graduate level for M.A. and M.S.W. programme.

Commerce: Course on 'Goods and Service Tax (GST)' introduced in UG programme.

Adult Continuing Education & Extension: Revised the Pre-Ph.D. Course work syllabus of Extension Education by including Social Research & Computer Application and Statistics in Social Research as Paper III and Paper IV.

Education: Revision of M.Ed. curriculum and Pre-Ph.D. course in Education as per norms specified by the regulatory body.

Naturopathy & Yoga: Syllabus of M.A. in Yogic Science and B.Sc. in Yogic Science were revised including the Credits of Practical papers.

Law: Updated the syllabus according to changes in New Company Law & GST related laws etc.

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
	288	91	76	99	22

2.2 No. of permanent faculty with Ph.D.

227

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	121	Nil	50	Nil	31	Nil	Nil	Nil	202

2.4 No. of Guest and Visiting faculty and Temporary faculty

-	-	165
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2.5 Faculty participation in conferences and symposia

No. of Faculty	International level	National level	State level
Attended	09	06	01
Presented papers	60	49	06
Resource Persons	11	28	01

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 Multiple Choice 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.	1995		42.6	39.5	15.1	97.2
B.Com.	496		51.6	39.1	7.0	98.5
B.Sc.	1788		54.1	40.3	3.3	97.7
M.A.	554					88.62
M.Sc.	608					95.23
M.Com.	40					87.5
Other Programmes	199					81.4

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

- IQAC regularly seek information on the activities related to teaching and learning undertaken by the departments.
- Feedback obtained from students is analyzed and forwarded to the departments for action.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	02
UGC – Faculty Improvement Programme	14
HRD programmes	03
Orientation programmes	14
Faculty exchange programme	-
Staff training conducted by the university	-
Staff training conducted by other institutions	-
Summer / Winter schools, Workshops, etc.	18
Others	-

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	553	307	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/ conferences/ training programmes etc. among faculty members.
- IQAC facilitated the uploading of additional Journals to the UGC List of Approved Journals. A 'Workshop on Process of Recommendation for Inclusion of Additional Peer-Reviewed Journals in the existing UGC Approved List of Journals' was conducted (April 2017).
- Convened a meeting of PIs of research projects and University Officials for ensuring smooth conduct of projects.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	24	33	-	-
Outlay in Rs. Lakhs	281.2	1055.14	-	-

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	03	03	-	-
Outlay in Rs. Lakhs	7.25	8.48	-	-

3.4 Details on research publications

	International	National	Others
Peer Review Journals	158	188	-
Non-Peer Review Journals	-	-	-
e-Journals	02	01	-
Conference proceedings	03	03	-

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 CPE 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	01	-	-	-
Sponsoring agencies	CMTHS organized three days <i>International Conference cum Workshop on Entrepreneurship Development in Tourism and Hospitality Sector in the Himalayan States</i> , Sponsored by Ministry of Tourism, GOI.	CMTHS organized Two days <i>National Seminar on Adventure Tourism Promotion in Uttarakhand</i> held during 26 & 27 March, 2018 at Ganga Resorts (GMVN) Rishikesh.			

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

3.13 No. of collaborations International National Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs:

From Funding agency From Management of University/College
Total

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
	01	04	01	-	-	-

3.18 No. of faculty from the Institution who are Ph.D. Guides and students registered under them

227

392

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

126

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

JRF/SRF

48

Project Fellows

Any other

448

3.21 No. of students Participated in NSS events:

University level

1850

State level

-

National level

-

International level

-

3.22 No. of students participated in NCC events:

University level

211

State level

75

National level

53

International level

-

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

-

International level

-

3.25 No. of Extension activities organized

University forum

04

College forum

-

NCC

01

NSS

19

Any other

-

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

- a) **Community Development Cell (CDC):** Under the *Unnat Bharat Abhiyan* (UBA), a sponsored social flagship program of MHRD, Govt of India the University adopted villages under the cluster of 04 Gram Panchayats in Pauri District. As, these villages were adopted earlier by the CDC, its activities were merged with UBA Cell of the University. MoU was signed between the University and IIT Delhi (National level coordinating institute of Unnat Bharat Abhiyan) in month of December, 2017 and subsequently, an extensive household and village survey in the adopted villages was conducted from 17th February, 2018 to 22nd February, 2018 and uploaded in the UBA portal.
- b) **UMANG (University Mission of Awareness on Namami Gange):** The University became Regional and Outreach Partner under Namami Gange Programme in Garhwal with the signing up of MoU between State Programme Management Group, Namami Gange (SPMG-NG), Dehradun and HNBGU on 11th September, 2017. For the execution of MoU UMANG was constituted in the University. 'UMANG' organized a Workshop on "Public Awareness of Ganga Protection and Hygiene" on September 13, 2017. The mission of the workshop was to spread the awareness among mass population through direct stakeholders such as Hoteliers, Pandit, Maulvi and Drivers etc. The workshop deliberated on mass publicity of the initiatives on Ganga cleanliness and protection vis-a-vis information, education and communication under Namami Gange. Regular Clean Ganga awareness programmes were conducted during the year.
- c) **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. During 2017-18, under *Sair Saleeka* awareness campaign at Garzia Devi and Nainital during Kumaun Himalaya tour (November 6-12, 2017); and awareness campaign on Clean India and Clean Ganga Missions at Jaipur, Jaisalmer and Bikaner during Rajasthan Tour (March, 2018) were conducted.
- d) **Dialogue with the Society:** The Centre for Journalism and Mass Communication 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 newspaper *Sanchar Tatva*. The Department of Adult, Continuing and Extension Education interacts with neo-literates by *Prasar*, a monthly news bulletin.
- e) **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.
- f) **Inspire Internship Science Camps:** DST-Gol sponsored 05 **INSPIRE** Internship Science Camps were organized during 2017-18. The camps were attended by 1510 students of Class 11th (Science) from 123 schools of Uttarakhand.
- g) **Transfer of Technology:** Training programmes for cultivation of Medicinal and Aromatic Plants (MAPs) organized though out the year by the High Altitude Plant Research Centre.
- h) **Horticulture:** Educational Training Tour to Horticultural Research Centre, Chauras for the students of various inter colleges of Uttarakhand state and time to time delivered lectures in field visit under ISPIRE programme sponsored by DST New Delhi.
- i) **Pharmaceutical Science:** Pharmacist Day (September 25, 2017) and National Pharmacy week (3rd Week of Nov, 2017) was celebrated at Chauras Campus. Students and faculty participated in the event and worked together to increase awareness of health-system pharmacists' contributions to public health, emphasized the role of health-system pharmacists in public health planning and promotion, and

through deliberation new opportunities for health system pharmacists' involvement in future public health initiatives was identified.

- j) **Naturopathy & Yoga:** Yoga Training Camp in Srinagar Region from 01 to 07 May 2017; 'Swachhta Hi Seva' Programme on 24th September 2017.
- k) **Political Science (SRT):** Organised Political awareness programme (Bimonthly) for the rural women in the nearby villages; sanitary awareness programme for the nearby school going children.
- l) **Education (BGR):** Two week Society Visits by B.Ed. I & II semester students conducted Awareness Programmes on Health & Hygiene, women safety, Environmental problems, & *Beti Bachao Beti Pado* through street plays, rally, slogans etc.

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	181	-	-	181
Laboratories	147	02	UGC	149
Seminar Halls	50	01	UGC	51
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	102	14	UGC/ NMHS	83.71
Value of the equipment purchased during the year (Rs. in Lakhs)	565.31	99.63	UGC/NMHS	664.94
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	501997	727.26	13778	62.75	515687	790.01
Reference Books	25857	503.63	3540	261.12	29397	764.75
e-Books	3386	151.16	4542	128.78	7928	279.94
Journals	194	5.74	0	0	194	5.74
e-Journals	450	-	0	0	450	0
Digital Database	-	-	0	0	0	0
CD & Video	501	-	0	0	501	0
Others (specify)	-	-	0	0	0	0

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	1104	51	25	03	04			
Added	53	03	20	-	-	-	-	-
Total	1135	54	45	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:
 - 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.
 - Online Pay Slip System:** This module enables employees to view and download their salary slip anytime in a paperless way.
 - 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.
 - Online Entrance Examination:** This system was developed to reduce the time and effort required for conducting entrance examinations, short listing for admissions.
 - 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	73.14
ii) Campus Infrastructure and facilities	29.71
iii) Equipments	40.77
iv) Others (Books and Journals)	-
Total:	143.62

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
8888	3154	369	875

(b) No. of students outside the state

2121

(c) No. of international students

-

	No.	%		No.	%
Men	6672	50.02	Women	6614	49.78

Last Year						This Year					
Gen	SC	ST	OBC	Physically Challenged	Total	Gen	SC	ST	OBC	Physically Challenged	Total
9460	1893	225	1055	36	12669	9550	1993	304	1434	16	13,297

Demand ratio: up to 1:8 Dropout %: < 5%

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

- Guidance is provided to the students appearing for competitive examinations at departmental level by the subject teachers. Reference books and related study materials are provided to the students by subject teacher. In addition to departmental guidance and help, the students are assisted by DSW Board, Women Cell and Placement Cell of the University. Few of the departments have also initiated preparatory classes for competitive examinations.
- UGC sponsored Remedial Coaching Classes are held for SC/ST/OBC and weaker section of the society for providing guidance and assistance to the students appearing in competitive examinations. In addition, the students of general category also avail the facility of the Cell. During 2017-18 the enrolment was as follows: Remedial Coaching (30), Coaching for Services (32), Coaching for NET & SET (36).

5.5 No. of students beneficiaries

98

5.5 No. of students qualified in these examinations

NET	23	SET/SLET	11	GATE	14	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

1175

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	-	-	-	81
• University Career Counselling and Placement Services	01	196	09	-

5.8 Details of gender sensitization programmes

The University promotes gender sensitive environment by organising various programmes for gender sensitization and awareness among students through **Permanent Cell for Combating Sexual Harassment and Violence against Women**. The cell also provides training in Judo and Karate for self-defence to instil self confidence in female students. **Women Studies Centre** organizes invited lectures on regular basis to generate awareness about women issues, especially reproductive health and hygiene, legal issues and adolescent health.

5.9 Students Activities

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

State/ University level	230	National level	153	International level	-
No. of students participated in cultural events					
State/ University level	90	National level	30	International level	-

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

Sports: State/ University level	06	National level	-	International level	-
Cultural: State/ University level	-	National level	-	International level	-

5.10 Scholarships and Financial Support

	Number of students	Amount(Rs)
Financial support from institution	53	2,31,000
Financial support from government	375	NA
Financial support from other sources	27	NA
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	2	National level	-	International level	-

5.12 No. of social initiatives undertaken by the students

33

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 subject experts regarding their requirements are duly considered by the BoS. Syllabus designing and other academic programmes are learner-centric with the objective to acquaint students with the recent developments in the subject.

6.3.3 Teaching and Learning

- Use of ICT is encouraged amongst the faculty members; Smart classrooms make teaching interactive and lectures are delivered by power point presentation; Providing NPTEL Lectures to the students.
- The faculty members are encouraged to attend faculty development programmes to update their knowledge. The Faculty Development Centre (PMMMNMTT) is organizing FDPs on regular basis.
- The students are informed about the various open learning e-resources available, further relevant assignments are also given to students; Computer software are also used to demonstrate some practical (Pharmaceutical Science).
- Remedial classes and extra classes are conducted.
- Field/Industrial visits for the students are organized by most of the departments to gain hands on experience; Rural Surveys (Geography, BGR); Final year project carried out on the new composite materials development and their application in industry (ME); PG students carried out the nutritional survey of some families for the paper Community Nutrition (Home Science, BGR); Field visit to local handloom unit to observe weaving & knitting as techniques of fabric construction & the mechanics of a handloom, knitting machine and Bageshwari Charkha for spinning yarn (Home Science, SRT); 16 weeks Internship Programme, 2 weeks Society visits, Exhibition of total work done by the student in the end of semester (Education); Legal Literacy Camps in the Campus and nearby Villages conducted (Law).
- 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.
- To motivate the students, occasions like birthdays of eminent mathematicians Srinivas Ramanujan (22 December) & David Hilbert (23 January) are celebrated (Mathematics); Celebration of World Consumer Day (Home Science, SRT); International Forestry Day (Botany, BGR Campus), World Water Day & World DNA Day (Zoology & Biotechnology); World Ozone day (Physics); World Environment Day (Environmental Science); National Sports Day (Physical Education).

6.3.3 Examination and Evaluation

Online submission of examination forms by all students under CBCS is being done. Central evaluation undertaken in selected subjects to facilitate timely declaration of results.

6.3.4 Research and Development

- The faculty members are encouraged to participate in Workshops, Seminars and Conferences etc. so as to update themselves with the developments in their respective field of research.
- Faculty members are encouraged to submit research projects to the funding agencies. Also, patent filling is encouraged. Setting up of Research Corpus Fund is also proposed.

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 addition/ up-gradation of ICT and physical infrastructure is being done.
- The USIC serves as a common facility and is regularly strengthened by procuring instruments.
- 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.
- Faculty members are regularly attending the FDPs organized by the Faculty Development Centre (PMMMNMTT) of the University.

6.3.7 Faculty and Staff recruitment

Recruitment of teaching positions has been withheld due to pending direction on reservation by the UGC.

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.
- The Department of Commerce signed MoU/ Agreement for the ICSI Signature Award with the Institute of Company Secretaries of India, New Delhi.

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 are displayed on the university website besides the notice boards of respective departments.

6.4 Welfare schemes

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	Yes	UGC	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' registered on 03.03.2016, will soon be open with its website becoming operational. In addition, some of the departments have active Alumni Associations while, alumni of many extend their support as and when required.
- Alumni Meet organized by Centre for Mountain Tourism & Hospitality Studies (March 2017) & Dept. of Physical Education (May 2018).
- Dept. of Instrumentation Engineering holds alumni meet every two years.
- Created 'WhatsApp' alumni group 'DOPSHNBGU'; database of alumni is being prepared (Pharmaceutical Science).
- Facebook group 'Department of Home Science, SRT Campus, Badshahithaul' created (Home Science).

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 regularly undertakes 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 and cleanliness drives under *Swachh Bharat Abhiyan* in the campus. Proper maintenance of the plants is done by the trained staff.

Other initiatives are as follows:

- SAMADHAN (Self Motivated Development of the Nation) is a group of students, teachers, officials and security persons formed on Gandhi Jayanti (2nd October, 2017) by Director, Chauras Campus for making Campus- clean, green and beautiful through rendering selfless monthly voluntary service for two hours.
- Paper free-soft notes distribution to students; information dissemination through facebook page (Biochemistry).
- Proper disposal of Hazardous chemicals and waste materials (Chemistry, Birla Campus).
- Promoting solvent free reactions (Chemistry, SRT Campus).
- Set up four big bin system as per characteristics of the waste (Pharmaceutical Chemistry).

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.

- Undertook Mushroom Cultivation and Preservation, Off Seasonal Vegetable through Poly-house and Nursery of Medicinal Plants by active participation of research scholars and students (Rural Technology).
- To improve rapport between students and faculty members beyond curriculum activities were initiated, it resulted in increased presence of students in the classes (Botany, BGR Campus).
- Introduced the concept of virtual class rooms and also initiated the preparatory classes for competitive examinations (Biochemistry).
- Introduced self learning package for the quality improvement of students; Extra classes were conducted for students towards GPAT exams; Remedial teaching for weak students (Pharmaceutical Science).
- Field Survey of Medicinal Plants of Uttarakhand; Field Survey of Traditional Health Care system (Vaidyas) of Uttarakhand (Pharmaceutical Chemistry).
- Final year live project given to the students related to industry problems (ME).
- A Foundation Programme on Data Science Using TIBCO STATISTICA was organized for students (Statistics).
- Information and instructions to students delivered via email to make them ICT friendly; Formal Uniform for students were made along with blazer and tie to be worn by the students on selected occasions; Faculty and students collectively designed the department logo for the uniform, mementos and prizes (Physical Education).
- Organised 02 Value based Departmental Yoga Programme for Yoga Students; Value added Yoga Training program in various schools of Srinagar (Naturopathy & Yoga).

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

I. Strong Interface between University and Society

The University with the vision to undertake research on mountain specific problems has established a strong interface with the society. Some of the outreach programmes conducted by the University are:

- **Lab to Land Programme:** The University has an Alpine Research Station at Tungnath (Rudraprayag district) at an elevation of 3,700 m above msl, and a sub-station Pothibasa (2,200 m above m.sl.). High Altitude Plant Physiology Research Centre has transferred agro-technology to farmers for commercial cultivation of high altitude medicinal plants. The Centre regularly imparts training on cultivation of selected medicinal plants for farmers. The Centre has also established a Nature Interpretation Site for ex-situ conservation of endangered medicinal plants, which will also serve as spot for educating the school children.
- **People's Biodiversity Register (PBR):** The preparation of the People's Biodiversity Register (PBR) at *Gram Panchayat* and block level is an important step under the Biological Diversity Act 2002 and Biodiversity Rules 2004.
- **Low Cost Earthquake Resistant Buildings:** The entire area of Uttarakhand is prone to seismicity and falls under the seismic zones IV and V. The Department of Rural technology of the University has organized a seven day intensive training programme for masons (*Raj Mistri*) on low cost earthquake resistant building technology in July 2009.
- **Preservation and Promotion of Traditional Arts & Culture:** The University has established a Centre for Folk Performing Arts and Culture for preserving, promoting the folk arts, folk lores, folk music, instrument and culture of Uttarakhand. The Centre regularly conducts programmes on the promotion of traditional arts and culture.

The University has a famous Museum of Himalayan Archaeology, Ethnology Cultural Heritage, which was established in 1980. It has 14 galleries for displaying of antiquities, excavation findings, terracotta art, bronze sculptures, coins, painting, inscriptions and rich ethnographic artifacts. The 'Museum of Himalayan Cultural Heritage' in the Department of Anthropology houses artefacts depicting different dimensions of tribal culture of the region. Initiative has been taken by the university to document the rich cultural traditions of the region.

- **Dialogue with the Society:** The Centre for Journalism and Mass Communication communicates with the society through its monthly Newspaper SANCHAR TATVA. PRASAR is a monthly news bulletin circulated among neo-literates by the Department of Adult, Continuing and Extension Education.

University has done baseline household survey in the adopted villages under *Unnat Bharat Abhiyan*.

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.

The Department of Political Science regularly conducts orientation programmes for the newly elected members of the *Panchayati Raj* institution of the Garhwal region.

The University has recently introduced the concept of community colleges of the university. Under this programme, the University has started two skill oriented mechanical engineering programs of 04 Semesters (24 months) in machining and welding.

The University has also used its expertise in skill development of local community for ensuring their livelihood. Centre for Mountain Tourism and Hospitality Studies (CMTHS) has conducted an intensive skill development training of local craftsmen, tourists guide programme for unemployed youths, training programmes for managers of guest houses. Department of Business Management has also organized a program on capacity building through packaging for group of farmers.

The Centre for Women Studies of the University has been instrumental in raising gender related issues and sensitizing the community.

II. Innovative Teaching-Learning

- **Use of ICT:** Promoting the use of ICT in teaching has been a thrust area of the University. Smart classrooms have been set up in some of the departments. The faculty deliver the lectures with power point presentations. Students give weekly seminars by power point presentations. Use of multimedia in teaching & demonstration of Pharmacology practical is done (Pharmaceutical Science); Virtual Classroom has been introduced (Biochemistry).
- **Hands on Training:** Emphasis is given to provide practical exposure to students. Field visits/ Educational tours for data collection and survey are integral part of many programmes. Students raised 1 lac seedlings of various trees species in the state-of-the-art forestry nursery (Forestry); Students are involved in different activities of department and Horticultural Research Centre such as general maintenance of labs, class rooms, general cleanliness, plantation etc. (Horticulture); Mushroom cultivation is being done by students and research scholars (Rural Technology); Provide first hand practical experience to students in handling modern statistical software in the analysis of such data (Statistics); Students undergo training in Hospitals and Pharma industries (Pharmaceutical Science); Students undertake field survey of medicinal plants and Traditional Health Care System (Pharmaceutical Chemistry); AV presentations of Asanas, Pranayama and Cleansing Process for the students; Students actively participate in Yoga camps & health awareness programmes organized by the department (Naturopathy & Yoga); Software development by students (CSE).
- **Mentorship:** Teacher advisor is assigned to each class for taking care of all academic requirements of the students. Off-class interaction with students is encouraged (English). Strong Industry-Academia linkage is established for facilitating internship and placement (CMTHS). Remedial classes/ extra classes for preparing students for competitive exams are taken (Pharmaceutical Science, Biochemistry, Economics-SRT).

Beyond Curriculum Activities: Students actively participate in extension programmes like *Swachh Bharat Abhiyan*. Students have set up Commerce Club, Economics Association, Departmental Facebook/ WhatsApp groups for interaction; Cultural activities, competitions, sports and yoga camp are organized to train students for team spirit and healthy lifestyles (Education, Physical Education); Students conduct awareness programme in the villages (Sociology & Social Work); Students conduct awareness on societal issues through musical programmes (Music); Faculty participation in the students' initiatives of organising literary/music evenings (English).

Indian Association of Physics Teachers, IAPT and Association of Chemistry Teachers, ACT; help HBCSE (a unit of TIFR, Mumbai) organize an annual event called National Concept Test in the respective subject. Students from the University have been participating in this event for the past 3 years.

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.

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.

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

- To fill up vacant teaching positions on priority basis, so that the permanent faculty members contribute in enhancing the teaching and research outcome of the University.
- **To open new programmes/ courses:** P.G. Diploma in Remote Sensing & GIS, P.G. Diploma in Disaster Management, Certificate Course in Natural Resource Management, Geo-Hazards and Disaster Management (Geography); MOOC through SWAYAM (Pharmaceutical Science); Course in Sanskrit Samhoshan (Sanskrit); B.Com Honours (Commerce); 2 Year MBA program in Hospitality Management.
- **To establish new research/ laboratory facility:** Biometric Lab (Anthropology); Automobile Lab, FSW Lab, Mechanical Vibration Lab (ME); Geographical Resource Centre (Geography); Entrepreneurial Cell (CMTHS); Demo unit and Rural Museum (Rural Technology); Community Radio (CJMC);
- To run major research project sponsored by various funding agencies.
- To organize Seminars/ Conferences/ Workshops/ Literary Fest for Writers and Poets/ Invited lectures/ Memorial lecture etc.
- To enhance the use of ICT in teaching.
- To develop strong alumni network.

Name (Prof. O.P. Gusain)

Amrakesh Gusain
17.12.2018

Signature of the Director IQAC

Name (Prof. Annpurna Nautiyal)

Annpurna Nautiyal
17.12.2018

Signature of the Chairperson IQAC

PROSPECTUS 2017-2018

1

ACADEMIC CALENDAR SESSION 2017-18

(Approved by the Admission Committee held on 12.04.2017)

1. Sale of admission forms
2. Commencement of the academic session
- 3 (a) Last date of submitting admission forms for B.A./B.Sc./B.Com. and all UG & PG Courses Ist semester.
- (b) Last date of admission for all classes (All semester classes) & filling of exam form for I semester
- (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 mark sheet of the previous class by the University, wh

4. Commencement of classes
5. **Annual System**
 - (a) Commencement of Offline Examination Forms (Wherever applicable)
 - (b) Last date of submission of Online Examination Forms
 - (c) Submission of examinations Online Forms and other required documents from the camp institutions to the University.
 - (d) Last date for the submission of examination forms by the students to their respective Co Institutions upon payment of late fees of Rs.500/-
 - (e) Last date for the submission of examination forms by the students to their respective Co Institutions upon payment with late fees of Rs.1000/-
 - (f) Last date for the receipt of the duly completed examination forms along with the late fees from Affiliated Colleges / Institutions by the University
 - (g) Conduct of UG annual examination
6. **Semester System**

Course duration (including examinations) for UG & PG, Professional & Vocational cou

 - (a) Odd Semester 20
 - (b) Even Semester 16
 7. Winter Break 01
 8. Summer Break 01
- 9 (I) **All U.G., P.G. & P.G. Diploma Courses (Odd Semester)**
 - (a) Commencement of classes
 - (b) Date for submitting examination online forms (Except first semester) 1st
 - (c) End semester examinations (UG/PG)*
9. (II) **All U.G., P.G. & P.G. Diploma Courses (Even Semester)**
 - (a) Commencement of classes
 - (b) Date of submitting examination online forms 1st M

1.3 Feedback from Stakeholders

STUDENTS FEEDBACK ON TEACHERS (2017-18)**BIRLA CAMPUS, SRINAGAR**

SCHOOLS	NAME OF DEPARTMENTS						Composite Mean
Agriculture and Allied	Forestry 4.2	HAPPRC 3.62	Horticulture 4.0	Rural Tech. 4.95	Seed Sci. 4.81		4.29
Earth Sciences	Defence Stds. 4.64						4.64
Life Sciences	Botany 3.74	Microbiology 3.66	Zoology 3.6	Biochemistry 4.75	-	-	3.82
Sciences	Chemistry 4.2	Maths 3.96	Physics 4.76	Pharm. Science 3.71	Pharma. Chem. 4.49	-	4.17
Engineering & Tech.	ECE 4.33	IT 4.47	IE 4.8	ME 4.32	-	-	4.08
Arts, Com. & Languages	CJMC 4.38	Drawing 4.32	English 4.51	Hindi 4.91	Sanskrit 4.60	-	4.51
Humanities & Soc. Sci.	Anthropology 3.12	Economics 4.7	History 3.9	Pol. Science 4.19	Psychology 4.84	Sociology 4.38	4.03
Commerce	Commerce 4.73		-	-	-	-	4.73
Education	Yoga 4.75	Phy. Edu. 4.58	-	-	-	-	4.71
Management	Business Mgmt 3.88	-	-	-	-		3.88

BGR CAMPUS, PAURI

SCHOOLS	NAME OF DEPARTMENTS				Composite Mean
Earth Sciences	Geography (5.0)	-	-	-	5.00
Life Sciences	Botany (3.97)	-	-	-	3.90
Sciences	Chemistry (4.80)	Mathematics (4.17)	Physics (4.4)		4.45
Arts, Comm. & Languages	English (4.65)				4.65
Humanities & Soc. Sci.	History (4.38)	Economics (4.06)	Pol. Sci. (4.58)		4.37
Law	Law (4.07)				4.07

SRT CAMPUS, TEHRI

SCHOOLS	NAME OF DEPARTMENTS				Composite Mean
Earth Sciences	Geology (4.60)	Geography (4.81)	-	-	4.60
Sciences	Chemistry (4.54)	Physics (3.92)	Home Sci. (5.0)	-	4.50
Arts, Comm. & Languages	English (4.01)	Hindi (5.0)	Sanskrit (5.0)	-	4.67
Humanities & Soc. Sci.	History (5.0)	Economics (4.47)	Pol. Sci. (5.0)	Sociology (4.63)	4.74
Commerce	Commerce (5.0)	-	-	-	5.00
Education	Education (4.87)	-	-	-	4.87
Law	Law (5.0)	-	-	-	5.00

Rating Scale: 1 = Below Average; 2 = Average; 3 = Good; 4 = Very Good; 5 = Excellent

STUDENT FEEDBACK ON CURRICULUM 2017-18

SCHOOLS	CRITERIA 1		CRITERIA 2		CRITERIA 3		CRITERIA 4		CRITERIA 5		CRITERIA 6		CRITERIA 7		CRITERIA 8	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Agriculture & Allied Sciences	3.67 Hort/HAPPRC	4.69 Rural Tech	3.44 HAPPRC	5.0 Rural Tech	3.44 HAPPRC	5.0 Rural Tech	3.4 Horti	5.0 Rural Tech	3.53 Horti	4.9 Rural Tech	3.53 Horti	5.0 Rural Tech	1.78 HAPPRC	5.0 Rural Tech	3.73 Horti	5.0 Rural Tech
Arts, Communication & Languages	4.0 Drawin g	4.13 English	3.57 CIMC	4.4 English	3.53 CIMC	4.44 Drawing	3.6 Drawing	4.5 Sanskrit	3.92 Drawing	4.3 Sanskrit	3.27 CIMC	4.3 Sanskrit	3.1 Sanskrit	4.33 English	4.0 CIMC	4.44 Drawing
Earth Science Defence & Strategic Studies	-	4.8	-	4.4	-	4.0	-	4.4	-	4.6	-	4.2	-	4.6	-	4.4
Humanities & Social Sciences	3.4 Anthro	4.28 Pol. Sci	2.6 Psych o	5.0 History	2.0 Psycho	3.71 Pol. Sci	2.6 Psycho	4.09 Pol. Sci	2.3 History	4.0 Eco/ Pol. Sci	2.0 History	3.95 Pol. Sci	1.8 History	3.9 Pol. Sci	1.87 Sociology	5.0 History
Life Sciences	2.25 Biotech	4.3 Biochem	1.75 Biotech	4.2 Biochem	2.0 IBT	4.8 Biochem	2.0 IBT	3.63 Microbi o	2.25 IBT	4.2 Biochem	2.5 Biotech	4.1 Biochem	2.25 IBT	4.8 Biochem	1.5 IBT	4.8 Biochem
Sciences	3.3 Chem.	3.69 Maths	2.7 Chem	4.12 Pharm Sci	3.3 Chem	4.3 Pharm Sci	3.2 Chem	3.4 Pharm Sci	3.2 Chem	3.62 Pharm Sci	3.15 Maths	3.75 Pharm Sci	2.66 Maths	4.97 Pharm Sci	3.1 Chem	3.8 Pharm Sci
Commerce	-	4.75	-	4.62	-	4.62	-	4.72	-	4.55	-	4.79	-	4.55	-	4.75
Education	3.82 Phy Edu	5.0 Yoga	3.57 Phy Edu	4.75 Yoga	2.72 Phy Edu	4.88 Yoga	3.49 Phy Edu	4.92 Yoga	3.54 Phy Edu	4.79 Yoga	3.64 Phy Edu	4.54 Yoga	3.77 Phy Edu	4.92 Yoga	3.74 Phy Edu	4.71 Yoga
Law	-	4.5	-	4.4	-	4.8	-	4.8	-	4.8	-	4.5	-	00	-	4.4
Management	3.45	-	3.15	-	2.63	-	3.19	-	3.21	-	3.06	-	2.48	-	-	3.13
Criteria 1: Emphasis on fundamentals Criteria 2: Coverage of recent and advanced topics Criteria 3: Availability of text books Criteria 4: Organisation of course curriculum Criteria 5: Relevance of the unit in curriculum to the course Criteria 6: Employability of the course Curriculum Criteria 7: Practical exposure Criteria 8: Overall rating of the course																
Rating Scale: 1 = Below Average; 2 = Average; 3 = Good; 4 = Very Good; 5 = Excellent																

HOSTEL FEEDBACK (2017-18)

HOSTELS	CRITERIA 1		CRITERIA 2		CRITERIA 3		CRITERIA 4		CRITERIA 5	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
BIRLA CAMPUS BOYS HOSTELS	3.08 Chaukhamba	4.82 Swami Vivekanand	2.71 BJR	4.51 Swami Vivekanand	1.93 Swami Vivekanand	4.93 BJR	1.46 Aryabhata	3.12 Swami Vivekanand	1.93 BJR	4.71 Swami Vivekanand
BIRLA CAMPUS GIRLS HOSTELS	5.04 Alaknanda	6.51 Nanda Devi	4.95 Bhagirathi	7.18 Alaknanda	5.39 Yamuna	8.15 Mandakini	2.65 Alaknanda	6.45 Mandakini	3.61 Bhagirathi	6.75 Mandakini
PAURI CAMPUS HOSTELS	4.81 BGR Boys Hostel	5.08 BGR Girls Hostel	5.71 BGR Girls Hostel	5.72 BGR Girls Hostel	5.54 BGR Girls Hostel	5.54 BGR Boys Hostel	2.48 BGR Boys Hostel	3.32 BGR Girls Hostel	3.80 BGR Boys Hostel	4.68 BGR Girls Hostel
TEHRI CAMPUS HOSTELS	4.65 SRT Boys Hostel	4.65 SRT Girls Hostel	6.46 SRT Boys Hostel	6.46 SRT Girls Hostel	5.53 SRT Boys Hostel	5.53 SRT Girls Hostel	1.87 SRT Boys Hostel	1.87 SRT Girls Hostel	3.55 SRT Boys Hostel	3.55 SRT Girls Hostel
CRITERIA 1: HOSTEL FACILITIES CRITERIA 2: MESS FACILITIES CRITERIA 3: WARDEN AND STAFF CRITERIA 4: CO-CURRICULAR ACTIVITIES CRITERIA 5: OVERALL RATING										
Rating Scale: 0-2 = Very Poor; 2-4 = Poor; 4-6 = Average; 6-8 = Good; 8-10 = Very Good.										

Birla Campus, Srinagar (Boys Hostel)				
S. No.	Hostel	Good Points	Weak Points	Suggestions
1.	Trishul	Regular electricity & water supply	Low quality furniture bed/ Mess Management needs important/ No Wi-Fi	Provide Science Management & Hindi News Paper Outsiders should not be allowed
2.	Aryabhata		Low level of cleanliness/	Beautification of Hostel premises
3.	Swami Vivekanand		Improper Mess Kitchen water disposal/ High Mess Charges/Poor electric maintenance	Medical + Sports facilities
4.	Chaukhabha		Study Chairs not comfortable/ Internet/ Drinking water/ electricity	There should be NO PG student in UG Hostel
Birla Campus, Srinagar (Girls Hostel)				
1.	Sarsawati	Good facilities	No TV/ Lack of medical/First Aid facilities	ATM in Chauras campus required
2.	Ganga	Good infrastructure	Poor medical facilities/ Surrounding not maintained	Caretaker required Canteen/Tuck shop required/ Almirah for all be available
3.	Bhagirathi	Good secured environment	Toilets not clean/ Drinking water facilities not proper	Food quality needs improvement/ Medical and Sports facilities needs improvement
4.	Yamuna	Good Internet Service	Poor Quality of food/ Poor maintenance of washroom/ Poor Sports facilities	Reopen library/ CP to be chosen by voting
5.	Alaknanda	Safe and secure/ Good food	No TV, No Wifi/ No medical facilities	Warden should also visit hostel day & night
6.	Mandakini		No internet facility/ Clean drinking water facilities not available	Gardner required
BGR Campus, Pauri				
1.	BGR Girls	Good Hostel environment	NO TV, No Internet Poor cleanliness of Toilets	Quality of food needs improvement/ Warden should visit hostel regularly
2.	BGR Boys	Cordial behaviour between students and Staff	Poor water and sanitation management	Wifi should be available
SRT Campus, Tehri				
1.	Bal Ganga Girls	Good mess facilities	week General maintenance No medical/Sports facilities	ATM in the campus/ Wifi facilities/ Change caretaker
2.	Trihari Boys	Good staff behaviour/ Good furniture	Monkey menace/ Wifi required	Ensure 24 hours water supply

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

RESEARCH PROJECTS (2017-18)

ONGOING

S. No.	Name of the Project (Name of PI)	Funding Agency	Amount (INR in lakhs)
SCHOOL OF AGRICULTURE AND ALLIED SCIENCES			
Department of Forestry & Natural Resources			
1	Assessing & monitoring climate change effects on tree line species in Garhwal Himalaya. 2016-19 (Dr. Sabyasachi Dasgupta)	MoEF, New Delhi	26.84
2	Networking projects on Non Timber Forest Products (NTFP). 2015-2017 (Dr. D. S. Chauhan)	ICFRE, Dehradun	10.50
3	Developing a strategy for Fibre based Livelihood Enterprises through <i>Grewia oppositifolia</i> (Bhimal) for SC and ST communities in Narendranagar Block of Tehri Garhwal. 2016-19 (Dr. Munesh Kumar)	NRDMS-DST	10.54
4	Seed dispersal and seed persistence potential of alpine plants – A case study of Tungnath Timberline. 2017-20 (Dr. S. S. Phartyal)	GBPNIHESD, Almora	14.00
High Altitude Plant Physiology & Research Centre			
5	Promotion and conservation of <i>Nadostachys grandiflora</i> (Jatamansi) by focusing extension of propagation technology and development of clusters with particular reference to higher Himalayan region of Uttarakhand. 2015-17 (PI- Dr. V.K. Purohit; Co-PI- Prof. A.R. Nautiyal)	National Medicinal Plant Board, GoI, New Delhi	48.82
6	Establishment of Gene Pool, Propagation and Ex- Situ Conservation of selected sensitive high altitude Medicinal and Aromatic plant species and Nature Interpretation Site (NIS) for Creating Awareness among the various stakeholders. 2016-19 (PI- Dr. V.K. Purohit, Co-PI-Prof. M.C. Nautiyal, Prof. A.R. Nautiyal, Prof. P. Prasad)	National Mission on Himalayan Studies (NMHS), GBPNIHESD, Almora	2,07.96
7	Establishment of Model Nursery of Tagar/Samewa (<i>Valeriana jatamansi</i>) and Pushkarmool (<i>Inula racemosa</i>) under Rashtriya Aushdiya Padap Mission (2017-19) (PI- Dr. V.K. Purohit, Co-PI- Prof. A.R. Nautiyal)	SMPB/HRDI Govt. of Uttarakhand	20.00
8	Development of a model nursery of <i>Hippophae salicifolia</i> and <i>Picrorhiza kurroa</i> through scientific method. 2015-17 (PI- Dr. M.C. Nautiyal, Co-PI- Dr. V.K. Purohit)	Herbal Research and Development Institute, Gopeshwar (Uttarakhand)	20.00
Department of Seed Science & Technology			
9	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 EARTH SCIENCES			
Department of Geology			
10	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 August 2017 (Prof. Y.P. Sundriyal)	DST, New Delhi	30.34
11	Glaciers in Upper Alaknanda-Sarswati Basin and Climate Change.	Department of	52.00

	2014-19 (Prof. H. C. Nainwal)	Atomic Energy, GOI, Chennai	
12	Estimation of Ice thickness and surface velocity using GPR & DGPS of Satopanth glacier – 2015-2018, (Prof. H.C. Nainwal)	SERB-DST, New Delhi	62.00
13	Large scale Geological-Geotechnical Mapping of vulnerable landslide zones along Sonprayag to Kedarnath and to suggest the preventive measures 2015-17 (Prof. Y.P. Sundriyal)	DST, New Delhi	17.60
14	Understanding of hydrological process in Upper Ganga Basin by using Isotopic technique. 2017-22 (Prof. H.C. Nainwal)	National Institute of Hydrology, Roorkee (Under NMSHE of DST)	16.75
15	Maintenance, monitoring and collecting of field data related to Monitoring of Kunjethi Landslide in Kali Valley in Central Garhwal Himalaya. 2016-19 (PI: Prof. YP Sundriyal).	DST, New Delhi	15.00
16	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 with NGRI Hyderabad and SASE Chandigarh)	3.50 HNBGU component
SCHOOL OF LIFE SCIENCES			
Department of Botany & Microbiology			
17	Wild edible mushrooms of Uttarakhand Himalaya: Diversity, distribution, nutritive value and medical potential. 2016-19 (Prof. R.P. Bhatt)	NMHS, GBPNIHESD, Almora	13.20
Department of Zoology & Biotechnology			
18	Creation of Bioinformatics Facility (BIF) for the promotion of Biological Teaching through Bioinformatics (BTBI) Scheme of BTISnet. (Dr. P.C. Lakhera)	DBT-BIF	45.00
19	Physicochemical and microbiological assessment of some selected water springs of central Himalayan region) 2016-19 (Dr. G.K. Joshi)	NMHS, GBPNIHESD, Almora	14.63
20	Population Dynamics and Biogeography of Himalayan Mouse hare Ochotona royalii in relation to their impact on the medicinal flora of Western Himalaya 2016-19 (Prof. S.N. Bahuguna)	NMHS, GBPNIHESD, Almora	26.54
21	Ecological monitoring and status of fish fauna in hydropower affected Alaknanda River 2016-19 (Prof. Prakash Nautiyal)	NMHS, GBPNIHESD, Almora	21.32
SCHOOL OF SCIENCES			
Department of Chemistry			
22	A comprehensive study of natural radiation level in Pauri and Udham singh Nagar District of Uttarakhand (Prof. Veena Joshi) 2015-17	BRNS, DAE	33.44
Department of Physics			
23	Strengthening the Infrastructural Facility at Nodal Centre at H.N.B. Garhwal University to pursue Radon/Thoron Studies in Northern India. 2014-2018 (Prof. R.C. Ramola)	Board of Research in Nuclear Science (BRNS), Dept. of Atomic Energy	85.04
24	MoU for setting up DAE Technologies Display and Dissemination facility at SRT Campus, Badshahi Thaul. 2017 onwards (Prof. R.C. Ramola)	BARC, Mumbai	40.00
25	Neutrino Masses and Mixing in the Standard Model and Beyond. 2015-19	CSIR New Delhi	18.00

	(Prof. S. Dev)		
26	Formation Mechanism and Characteristics of Aerosols in Different Seasons and its impact on Cloud formation, Processes and Climate at Himalayan region Uttarakhand. 2016-20 (Dr. Alok Sagar Gautam)	SERB-DST, New Delhi	25.68
27	What impacts do aerosols have on cloud condensation nuclei, clouds and rainfall over a pristine Himalayan region. 2018-21 (Dr. Alok Sagar Gautam)	SERB-DST, New Delhi	62.37
Department of Mathematics			
28	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			
29	Preparation and evaluation of effective herbal formulations for alopecia (baldness) and identification of chief constituent(s). 2015-18 Dr Mona Semalty (PI), Dr Ajay Semalty (Co-PI)	UGC, New Delhi	11.34
30	Small angle Neutron scattering study of the interaction between drug and cyclodextrins in drug-cyclodextrin complexes. 2017-19, Dr Ajay Semalty (PI), Dr Mona Semalty (Co-PI)	UGC-DAE CSR, Mumbai in collaboration with BARC, Mumbai	10.95
SCHOOL OF HUMANITIES AND SOCIAL SCIENCES			
Department of Political Science			
31	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 Economics			
32	Pattern of female work participation in Hill Rural Areas of Uttarakhand: Analysis of its Determinants Barriers and Prospects in context of Chamoli, Rudraprayag and Pauri Garhwal District. 2017-2018 (Dr. Prashant Kandari)	ICSSR, New Delhi	2.00
SCHOOL OF MANAGEMENT			
Centre for Mountain Tourism & Hospitality Studies			
33	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
34	Strategies, planning and tourist perspective of tourism development of Bhilanga valley of Garhwal Himalayas. 2015-2017. (Dr. Rashmi Dhodi)	ICSSR, New Delhi	5.00
35	Status of Tourism and Hospitality Education in Garhwal Region of Uttarakhand: A Critical Appraisal. 2016-17 (Prof. S.K. Gupta)	Directorate of Economic & Statistics, Govt. of Uttarakhand under SSS program	2.98
Department of Business Management			
36	Evaluating the role of Bank and other financial institutions in rehabilitation of affected people by natural calamity occurred at Uttarakhand in 2013. 2016-18 (Dr. Pradeep Mamgain)	Directorate of Economics & Statistics, Govt. of Uttarakhand under SSS program	3.00
TOTAL (INR in Lakh)			10,63.62

COMPLETED

SCHOOL OF AGRICULTURE AND ALLIED SCIENCES			
Department of Forestry and Natural Resources			
S. 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. (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. (Dr. A.K. Negi)	DBT, New Delhi	18.15
3	Networking projects on Non timber forest products. (Dr. D. S. Chauhan)	ICFRE,	5.05
High Altitude Plant Physiology and Research Centre			
4	Alpine ecosystem dynamics and impact of climate change in Indian Himalaya (PRACRITI-II). (Prof. M.C. Nautiyal)	SAC, ISRO, Ahmedabad	23.87
5	Rashtriya Paudhshala yojna, Amesh Kutki; (Prof. M C Nautiyal)	HRDI, Gopeshwar	20.00
6	Biofortification of rice grains with zinc by the application of plant growth promoting Rhizobacteria as zinc solubilizing agents. BSR GRANT (Dr. Babita Patni)	UGC, New Delhi	6.00
7	Occurrence of aflatoxin producing fungi and aflatoxin in raw herbal materials used for Ayurvedic drug preparation. BSR GRANT (Dr. Harish Chandra)	UGC, New Delhi	6.00
SCHOOL OF LIFE SCIENCES			
Department of Botany & Microbiology			
8	Diversity of microalgae and cyanobacteria across the thermal- and chemical-gradients in geothermal fields of Uttarakhand Himalaya. (Dr. Dhananjay Kumar)	UGC, New Delhi	6.00
9	Bacterial diversity and community succession in sulfur springs and caves around Sahasradhara. (Dr. Seema Rawat)	UGC, New Delhi	6.00
10	Screening of thermophilic cyanobacteria containing nonribosomal peptide synthetase gene clusters for their antimicrobial activity. (Dr. Rahul Kunwar Singh)	UGC, New Delhi	6.00
11	Establishment of Demonstration Unit and Germplasm Resource Centre for Commercial Cultivation of Highly Valuable <i>Stevia rebaudiana</i> , Bertoni. (Dr. Hemlata Bisht)	GBPI-IERP	5.82
12	Preparing chromosomes atlas of medicinal plants of Uttarakhand. (Dr. Asha)	UGC, New Delhi (Start up Grant)	6.0
Department of Zoology & Biotechnology			
13	Monitoring the self purification capacity of river Alaknanda implementing physical, chemical and biological approaches, BSR GRANT (Dr. J.S. Chauhan)	UGC, New Delhi	6.00
14	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 (Dr. Saurab Yadav)	UGC, New Delhi	6.00
15	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 (Dr. Sudhir Kumar)	UGC, New Delhi	6.00

16	Evaluation of hormone induced gonadal differentiation in adult gold fish <i>Carassius auratus</i> BSR GRANT (Dr. Indrashish Bhattacharya)	UGC, New Delhi	6.00
Department of Biochemistry			
17	Influence of the Ageing on Biochemical and Physiological changes in Plants: Insight into the interlinking of Redox Regulation BSR GRANT (Dr. Manisha Nigam)	UGC, New Delhi	6.00
18	Identification of Phylloquinone role on <i>L. donovani</i> inhibition. BSR GRANT (Dr. Nisha Singh)	UGC, New Delhi	6.00
SCHOOL OF SCIENCES			
Department of Chemistry			
19	Herbal Anti diabetic agents from Unexplored Plants of Uttarakhand Himalaya (Prof. D.S. Negi)	CSIR, New Delhi	27.00
20	Development of ion sensors for the determination of toxic metals in environmental samples. BSR GRANT (Dr. Jitendra Kumar)	UGC, New Delhi	6.0
21	Optical properties of heterocyclic and aryl based donor-acceptor conjugated systems. BSR GRANT (Dr. Prashant K Hota)	UGC, New Delhi	6.0
Department of Physics			
22	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. (Prof. R.C. Ramola)	Bhabha Atomic Research Centre, Mumbai	48.93
23	Neutrino Masses and Mixing in the Standard Model and Beyond. (Prof. S. Dev)	CSIR New Delhi	3.66
Department of Home Science			
24	Educating adolescent girls and young women on health and hygiene related issues in district Pauri of Uttarakhand 2014-16 (Dr. Rekha Naithani)	UCOST, Dehradun	3.00
Department of Mathematics			
25	Numerical investigation of linear stability of buoyancy assisted mixed convective flow in a vertical pipe filled with porous medium. BSR GRANT (Dr. Ashok Kumar)	UGC, New Delhi	6.00
SCHOOL OF HUMANITIES & SOCIAL SCIENCES			
Department of History & Archaeology			
26	Archaeological investigations of upper Sutlej valley in the trans-Himalayan region of Kinnaur to study the emergence of burial culture and pyrotechnology. (Prof. Vinod Nautiyal)	UGC, New Delhi	10.89
27	Ramayana Tradition in Garhwal Himalaya: A Historical Study. (Prof. DP Saklani)	ICHR	0.59
TOTAL (INR in Lakh)			2,88.45

CONSULTANCY

1.	The Ecological Survey for three seasons (Monsoon, Pre monsoon and Post monsoon) for Luhri HEP Stage I in Dist. Shimla & Kullu. 2017 (Prof. R.C. Sharma, Environmental Science)	Satluj Jal Vidyut Nigam Ltd. Shimla, HP	2.50
2.	Preparing Comprehensive Biodiversity Plan for Jhelum Tamak HEP located in Chamoli Dist. of Uttarakhand. 2017 (Prof. R.C. Sharma, Environmental Science)	THDC India Ltd	9.98
3.	Biodiversity Plan as per the Expert Body constituted by Hon'ble Supreme Court of India. 2017 (Dr. S. Dasgupta, Forestry & Natural Resources)	NHPC & NTPC	17.04
4.	Assessment of minimum flow requirements for key stone species in Karnali River Nepal. 2017 (Prof. Prakash Nautiyal, Zoology & Biotechnology)	GMR Upper Karnali Hydropower Ltd, India	4.80
5.	Study for Sustenance of Fishes in river Tons in respect of Naitwar Mori Hydro Electric Project. 2017-18 (Prof. Prakash Nautiyal, Zoology & Biotechnology)	Sutlej Jal Vidyut Nigam Ltd.	9.62
6.	Study on "Updated Distribution Data on IUCN Fish Fauna of Uttarakhand" 2017-2018	WWF India	4.94
Total (INR in Lakh)			48.88

7.2 Action Taken Report (ATR) based on the plan of action decided upon at the beginning of 2017-18.

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.

Action Taken: Efforts have been put in this direction and the professional courses are in the process of revising their syllabi in accordance with the industry needs and professionals from corporate sector are also actively being engaged in the activities of these departments.

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.

Action Taken: The campus has become partially Wi-fi enabled, and students are being encouraged to make use of the e-learning resources. On the other hand, the Faculty Development Centre is also continuously putting its efforts in imparting training to the faculty members on the usage of MOOCs and e-learning resources. A committee has been constituted to finalize the modalities for including MOOCs and SWAYAM courses by the University.

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.

Action Taken: Filling up of the vacant teaching positions has been kept on hold as a direction on reservation of seats is yet to be finalized by the UGC.

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.

Action Taken: This year, a total of 13,778 text books, 3,540 reference books and 4,542 e-journals have been added as a part of the efforts to improve the availability of new books and journals to students. However, the budgetary provision for the same is yet to be finalized.

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.

Action Taken: Entrepreneurship Cell shall be established after the receipt of the funds from the Ministry of Skill Development, Government of India.

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*. The University has an Alpine Research Station at Tungnath (Rudraprayag district) at an elevation of 3,700 m above msl, and a sub-station Pothibasa (2,200 m above msl.). High Altitude Plant Physiology Research Centre 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). *Sair Saleeka* is an initiative to spread awareness among the tourists about the cleanliness of the environment of the destinations.
- ❖ The University became the Regional and Outreach Partner in Garhwal region under Namami Gange Programme with the signing up of MoU between State Programme Management Group, Namami Gange (SPMG-NG), Dehradun and HNBGU on 11th September, 2017. **UMANG** (University Mission of Awareness on Namami Gange) was launched under the MoU.
- ❖ The University is spearheading the campaign of **Swachh Bharat Abhiyan** with regular cleanliness drives in and around campuses by students, NSS volunteers and NCC cadets.
- ❖ Household survey in the adopted villages has been done under *Unnat Bharat Abhiyan* after signing MoU with IIT Delhi, Eco camps, Health Camps have been organized in these villages.
- ❖ Awareness events are organized on World Environment Day, World Water Day, International Ozone Day, Earth Day, Mountain Day etc.
- ❖ The University has a Policy to ensure **Green & Clean Campus**. As a part of it the University had taken efforts towards energy conservation through replacing mercury and sodium vapor street light by energy efficient Light Emitting Diodes (LEDs).
- ❖ Rain harvesting systems (roof water & storm waters) for various uses and recharging ground water in Chauras Campus (4 Major underground tanks) are established.