

INTERNAL QUALITY ASSURANCE CELL (IQAC)

Annual Quality Assurance Report (AQAR)

2015-16



Hemvati Nandan Bahuguna Garhwal University
(A Central University)
Srinagar (Garhwal) - 246 174, Uttarakhand

Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
Bengaluru - 560 072

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.hnbg@gmail.com
registrar@hnbg.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/aqar201516.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)

2015-16

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 (Phys Edu) ☒

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

UGC-CE

UGC-Special Assistance Programme

☒

DST-FIST

☒

UGC-Innovative PG programmes

Any other (*Specify*)

DBT-HRD

UGC-COP Programmes

2. IQAC Composition and Activities

2.1 No. of Teachers

10

2.2 No. of Administrative/Technical staff

10

2.3 No. of students

01

2.4 No. of Management representatives

02

2.5 No. of Alumni

01

2.6 No. of any other stakeholder and
community representatives

02

2.7 No. of Employers/ Industrialists

-

2.8 No. of other External Experts

02

2.9 Total No. of members

28

2.10 No. of IQAC meetings held

01

2.11 No. of meetings with various stakeholders:

No.

05

Faculty

01

Non-Teaching

Staff Students

Alumni

Others

04

2.12 Has IQAC received any funding from UGC during the year?

Yes

-

No

☒

If yes, mention the amount

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

1. The Hans Foundation, New Delhi sponsored Workshop on 'Personality Development, Mentoring and Career Options' organized by Department of Sociology and Social Work in collaboration with IQAC and Dean Students' Welfare Board at Birla Campus, Srinagar during April 10-12, 2015). **External Expert:** Col. Pradeep Kala (Retd.)
2. Media workshop, VARTALAP-for a Better Flow of Information to Rural Areas was organized by Press Information Bureau (PIB), Dehradun organizes in association with IQAC at Birla Campus, Srinagar on 21st September, 2015. **Experts:** Sh. Charu Chandra Chandola, Veteran Journalist; Sh. Jaiprakash Panwar, New Media Expert; Prof. A.R. Dangwal, Head, Centre for Journalism & Mass Communication, HNBGU; Dr. Prakash Thapliyal, Dy. Director, PIB, Dehradun.
3. Workshop on 'Research Methodology' (For the students of Pre. PhD. Programme and Research Scholars of School of Humanities & Social Sciences) organized in collaboration with IQAC (October 12-15, 2015)
4. Seminar on "Best Practices in Achieving Institutional Excellence in Higher Education" organized by Deptt. of Education in collaboration with IQAC at Srinagar Campus (March 2-3, 2016). **Convener:** Prof. Shashi Kiran Pandey.

2.14 Significant Activities and contributions made by IQAC

- The IQAC in acted as nodal office for preparation of NAAC Self Study Report (SSR) and subsequent Peer Team visit during March 14-17, 2016.
- Conduction of workshops in collaboration with Dean Students' Welfare Office, to familiarize the UG students' with the intricacies of CBCS.
- Conduction of Orientation/ Induction programme for freshers in the departments.
- Formalized the mechanism for obtaining the 'Students Feedback on Teachers', initially off line followed by online. Students' feedback on Teachers is being obtained from PG and Professional Course students from the last academic session.
- Setting up of Academic Audit Cell.
- Involved in preparation of documentary on University.
- Adoption of Green Practices under 'Swachh Bharat Mission' by constructing 02 'Bio-compost Pits', creating solid waste disposal sites, placing dust bins in the buildings, pasting appropriate signage etc.
- Collaboration with departments for organizing Seminars, Workshops etc.
- Updated the data in Association of Indian Universities Handbook 2016.
- Director IQAC was nominated as Nodal Officer of the University for participating in the National Institutional Ranking Framework (NIRF) of the Ministry of Human Resource Development, GOI.
- Identification & strengthening of Best Practices in University by the IQAC Task Groups.

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"> The University conducted meetings and workshops for Principals of Affiliating Colleges, Faculty members and Students to familiarize them with the newly adopted CBCS in UG courses during the academic session 2015-16. 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. Subsequent to the notification of the IQAC recommendations by the University following actions have been taken: <ul style="list-style-type: none"> Norms regarding admission of foreign students have been finalized. The Industry-Academia linkage has been strengthened by regularly organizing <i>Aarohan</i>. Two Newsletters namely <i>The Communique</i> and <i>Yatrika</i> were launched respectively by the department of Management and Centre for Mountain Tourism & Hospitality Studies. A 30 minute documentary about the University was produced and uploaded on the website. The IQAC acted as the nodal office for the NAAC Peer Team visit to the University during March 14-17, 2016.

Academic Calendar of the year (Annexure- i)

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

Management ☐ Syndicate ☐ Any other body ☐ EC ☐

Provide the details of the action taken

Submitted to be placed in the Executive 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	38	-	-	-
PG	53	-	07	-
UG	14	-	05	-
PG Diploma	07	-	-	07
Advanced Diploma	-	-	-	-
Diploma	06	-	06	06
Certificate	05	-	04	05
Others*	03	-	-	03
Total	126	-	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	77
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.

- All UG programmes have introduced the syllabus prescribed by UGC for adopting the CBCS w.e.f. academic session 2015-16.
- The ordinances were duly amended to facilitate generation of results.

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

A **Faculty Development Centre (FDC)** has been established in the university by Ministry of Human Resource and Development under the Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNMTT). The mission, a Central Sector Scheme with All India coverage, envisage to address comprehensively all issues related to teachers and teaching, with the focus to deal holistically with the education sector without fragmenting based on levels as school, higher, technical etc. Thus, the FDC shall organize short and long term courses to accomplish its objective to institutionalize a system of teacher preparation with quality, competency and character. **Director:** Prof. P.K. Joshi, Department of Education

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
290	129	49	104	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	29	Nil	Nil	Nil	186

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	01	34	16
Presented papers	43	114	24
Resource Persons	-	55	06

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

Majority of the departments have adopted ICT enabled teaching and learning methodology. Moreover, beyond classroom approaches like group discussions, quiz, field trips, industrial visits were pursued.

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.	1000		7.2	55.9	18.7	89.7
B.Com.	189		19.5	64.0	0.09	99.5
B.Sc.	833		17.5	60.7	0.08	94.5
M.A.	431					61.0
M.Sc.	444					79.3
M.Com.	45					51.0
LLB	61					75.4
LLM	19					68.4
M. Pharma.	8					100

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

- The regularity in classes was monitored by mid-term review of the percentage of allotted classes held.
- The department submits details of activities undertaken related to teaching and learning to the IQAC

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	11
UGC – Faculty Improvement Programme	-
HRD programmes	-
Orientation programmes	04
Faculty exchange programme	-
Staff training conducted by the university	02
Staff training conducted by other institutions	02
Summer / Winter schools, Workshops, etc.	36
Others	08

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	594	266	01	-

Criterion – III

3. Research, Consultancy and Extension

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

- The recommendations of IQAC have been duly notified by the University thus providing impetus to undertake research activities by faculty members.
- 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.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	12	48	-	-
Outlay in Rs. Lakhs	114.12	848.27	-	-

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	03	-	-
Outlay in Rs. Lakhs	-	7.66	-	-

3.4 Details on research publications

	International	National	Others
Peer Review Journals	213	200	-
Non-Peer Review Journals	-	20	04
e-Journals	08	-	-
Conference proceedings	-	09	-

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	-	05	-	03	-
Sponsoring agencies		MoEFCC, ICSSR, GBPIHED, DST, UCOST,UCB, ISRO, USAC		HNBGU, UGC-SAP	

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

60

3.13 No. of collaborations

International

03

National

07

Any other

-

3.14 No. of linkages created during this year

10

3.15 Total budget for research for current year in lakhs:

From Funding agency

1070.65

From Management of University/College

328.06

Total

1398.71

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	02
	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
15	-	10	05	-	-	-

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

237

551

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

111

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

JRF/SRF

15

Project Fellows

15

Any other

618

3.21 No. of students Participated in NSS events:	University level	1309	State level	-
	National level	-	International level	-
3.22 No. of students participated in NCC events:	University level	333	State level	152
	National level	76	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	07	College forum	-
	NCC	03	NSS	15
			Any other	-

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

- i) **A Community Development Cell (CDC)** has been established in the University which in consultation with the district administration has adopted 04 Gram Panchayats namely Koti, Kathud, Pokhri (Ka) and Doab in District Pauri Garhwal under the *Unnat Bharat Abhiyaan* (UBA). Further, 12 villages were selected under these Gram Panchayats: **Koti:** Koti, Durgakot, Panaloyun urf Naisu, Kameda & Saindul; **Kathud:** Kathud & Saraikhet; **Pokhri** (ka): Pokhri (Ka); **Doab:** Doab, Kaldung, Gadwagad & Radhaballabh Puram. **Coordinator:** Prof. Anpurna Nautiyal, Department of Political Science.

The works done by the CDC were as follows:

- To assess the needs and requirements of the selected villages and to identify the resource availability in these regions, the cell involved the students of Political Science, Economics, Sociology and Forestry departments of the University in the preliminary socio-economic survey during the month of January, 2016.
 - Meeting with local representatives of the adopted Gram Panchayats in January, 2016
 - Meeting with Chief Development Officer, Pauri and District Development Officer, Pauri in February, 2016 and submission for Draft Action Plan Report by the cell to the district administration for seeking their support and cooperation
 - Community Development Cell with the support of Department of Adult, Continuing and Extension Education of the University organized the following programs in the adopted villages:
 - Five Days workshop on 'Career Guidance and Counselling' was organized by the department at Janta Inter College, Jamnakhali, Pauri Garhwal. (02-06 March, 2016).
 - A Three days (Health Management & Care for pre-school children camp was organized by the department at village Kathud and Pokhari, Pauri Garhwal. (27-29 March, 2016).
 - Yoga camp was organized with the support of Yoga Department of the University in the adopted villages (March, 2016).
- ii) Four (04) **DST-INSPIRE Science Camps** in which 1337 (top 1% performer of Class X Board) students from 136 Schools of Garhwal Mandal participated sponsored by DST under INSPIRE Scheme (1st camp- 20th December to 26th December 2015, 2nd camp- 26th December 2015 to 1st January, 2016, 3rd camp- 19th to 25th January 2016, 4th camp- 31st January to 06th February 2016). Grant sanctioned Rs.81.00 Lakh only. Coordinator: Prof. Y.P. Sundriyal
- iii) **INDUCTION WORKSHOP/ TRAINING PROGRAMME** on 'Available propagation and cultivation practices (Agro-technology), post-harvest techniques in terms of harvesting, grading, packaging and marketing of the MAPs produced' organized under National Medicinal Plants Board (NMPB), Govt. of India

funded R&D project No. of participants: 45. Organizer: Dr. V.K. Purohit (March 16, 2016). **High Altitude Plant Physiology Research Centre**

- iv) Department of Law, BGR and SRT Campus organized legal awareness camps in the adjacent villages.
- v) NSS volunteers performed community service in the villages during their annual camps.
- vi) Cleanliness drive and rally organized under *Swachh Bharat Abhiyan*.

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	-	-	179
Laboratories	132	10	UGC	142
Seminar Halls	50	-	-	50
No. of important equipments purchased (≥ 1 -0 lakh) during the current year.	60	14	UGC	74
Value of the equipment purchased during the year (Rs. in Lakhs)	335.43	122.34	UGC	594.69
Others	-	-	-	-

4.2 Computerization of administration and library

Retrospective conversion process of book collection of Central Library at Birla Campus has been initiated. 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	443490	436.03	31261	163.06	474751	599.09
Reference Books	20913	47.31	3615	219.63	42528	266.94
e-Books	139	-	2109	61.66	2248	61.66
Journals	194	5.74	-	-	194	5.74
e-Journals	450	-	-	-	450	-
Digital Database	-	-	-	-	-	-
CD & Video	501	-	-	-	501	-
Others (specify)	-	-	-	-	-	-

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	1040	47	22	03	04	16	40	-
Added	27	04	03	-	-	-	-	-
Total	1067	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:
 - 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	1.50
ii) Campus Infrastructure and facilities	231.47
iii) Equipments	0.80
iv) Others	-
Total:	233.77

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

The Student's Welfare Board on advice of IQAC organized regular practice sessions for students in various sports. All notifications related to scholarships, freeships etc. and other student welfare related information were displayed prominently for students.

5.2 Efforts made by the institution for tracking the progression

The academic departments of the University have been asked to devise mechanism for tracking the progression of the students in association with Alumni Association of the University.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
8985	2503	441	237

(b) No. of students outside the state

1003

(c) No. of international students

-

No	%
5889	48.4

Men

Women

No	%
6277	52.6

Last Year						This Year					
Gen	SC	ST	OBC	Physically Challenged	Total	Gen	SC	ST	OBC	Physically Challenged	Total
8153	1597	272	556	30	10608	9151	1845	231	935	04	12166

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 2015-16 the enrolment was as follows: Remedial Coaching (107), Coaching for Services (218), Coaching for NET & SET (73).
- 1104 students have registered under e-district plan.

No. of students beneficiaries

398

5.5 No. of students qualified in these examinations

NET	29	SET/SLET	03	GATE	14	CAT	-
IAS/IPS etc	-	State PSC	-	UPSC	01	Others	09

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	-	-	-	109
• University Career Counselling and Placement Services	03	310	35	-

5.8 Details of gender sensitization programmes

- The Permanent Cell for Combating Sexual Harassment and Violence against Women conducted the following programmes:
 - Awareness workshop on ‘Sexual Harassment’ for the Research Scholars and PG students (August 17, 2015).
 - One day discussion programme on ‘Women Safety and Empowerment’ on the occasion of International Women’s Day (March 8, 2016).
 - Two Judo Camps for girls (September 10 to October 10, 2015 and February 1 to February 29, 2016).
 - Under the Cell an Internal Complaints Committee has also been recently constituted as per the provision of the Section 4 of the Sexual Harassment of Women at the Workplace.
- Women Studies Centre organized Four Days Workshop on ‘Personality Development Programme’ for the University girls’ students (April 21-24, 2015).
- Prof. Himanshu Bourai, Coordinator of the Centre delivered a special lecture on ‘Women Empowerment’ in the Department of Adult, Continuing and Extension Education, Birla Campus (8th March, 2016).

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	76	2,28,000
Financial support from government	728 Dept. of Social Welfare Govt. of Uttarakhand & Central Govt.	
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

Regular feedback 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

- A reading hall of 150 capacity has been constructed along with separate reference section and UGC-Infonet (INFLIBNET) and e-resource lab with 40 computers for users.
- 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

- The rolling advertisement for recruitment of faculty and staff are widely published in national dailies and employment news.
- Online submission of application forms for recruitment.

6.3.8 Industry Interaction / Collaboration

Industry-Academia Linkage Cell has 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. A MoU was signed with Bal Research Foundation, Bengaluru further strengthening the linkage with industry.

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 board.

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 newly incepted association will open registration with the launch of its website.

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.

- Adoption of Online submission of marks by the Examiners during the session expedited the generation of results. Also, the element of error was almost omitted during data entry.
- 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 Mathematical 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); Zoological Society arranged creative programmes for students (Zoology, BGR Campus).

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

- **University Society Interface:** The University has continued its outreach initiatives by organizing workshops for farmers to disseminate knowledge regarding plantation of medicinal plants, horticultural crops etc.
 - A Community Development Cell (CDC) has been established. Community development programmes have been initiated in the 12 adopted villages of 04 *Gram Panchayats* in Pauri District.
 - Likewise, the Department of Adult Continuing and Extension Education has been organizing literacy, post-literacy, continuing education and science for masses, environmental education, legal literacy and technology transfer by involving students and teachers.
 - The NSS volunteers held camps in villages and participated in rural health and hygiene related works.
- **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. Likewise, 15,000 documents have been entered for the ongoing automation of Central Library.
- Some of the departments have focused on skill-development of students namely communication skills (Economics, BGR Campus), fashion designing & interior decoration (Home Science, Birla Campus); confidence-building (Mathematics, Birla Campus); guidance and counselling (Psychology, Zoology & Biotechnology, Birla Campus).

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 on the anvil becoming Wi-Fi enabled, thereby enhancing the access to e-resources and improving the coordination further.

8. Plan for next year

- 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).
- To encourage the departments to conduct faculty development programmes in association with the Faculty Development Centre (FDC) established under PMMMNMTT.
- To mobilize the departments to apply for special grants viz. UGC-SAP, DST-FIST.
- 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).
- 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).
- To establish new linkages with industry and research institutes (ME, IT, IE, Chemistry, Sociology & Social Work, CMTHS).
- Initiate Academic audit of PG departments.
- Strengthening of the University Career Counselling and Placement Service to make it more effective.
- To make the Alumni Association more proactive.

Name (Prof. O.P. Gusain)

Om Prakash Gusain

27.12.2016

Signature of the Director IQAC

Name (Prof. J.L. Kaul)

JL Kaul 27.12.2016

Signature of the Chairman IQAC

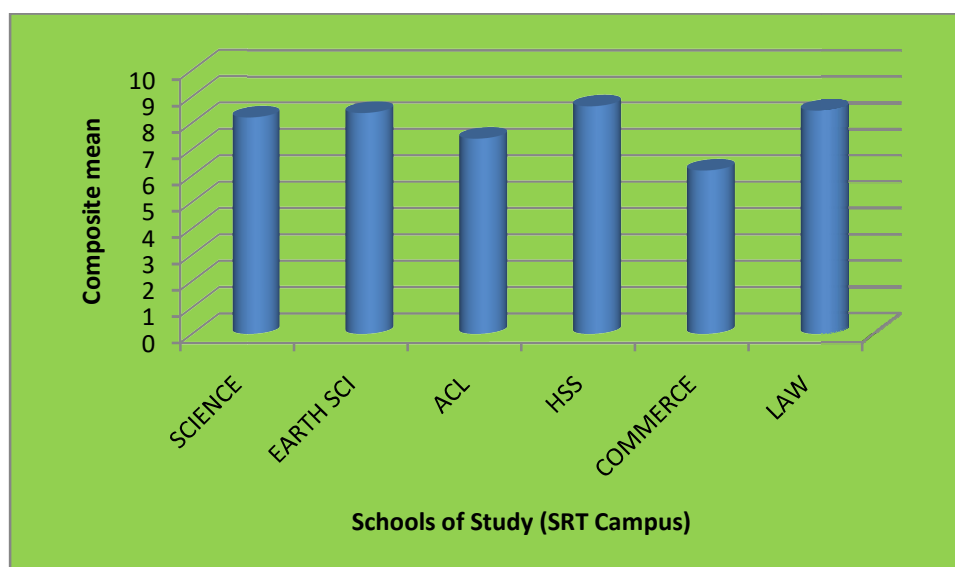
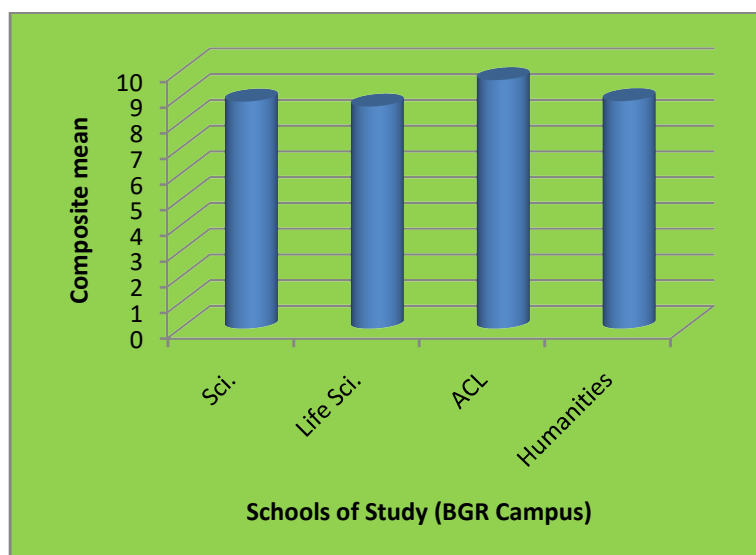
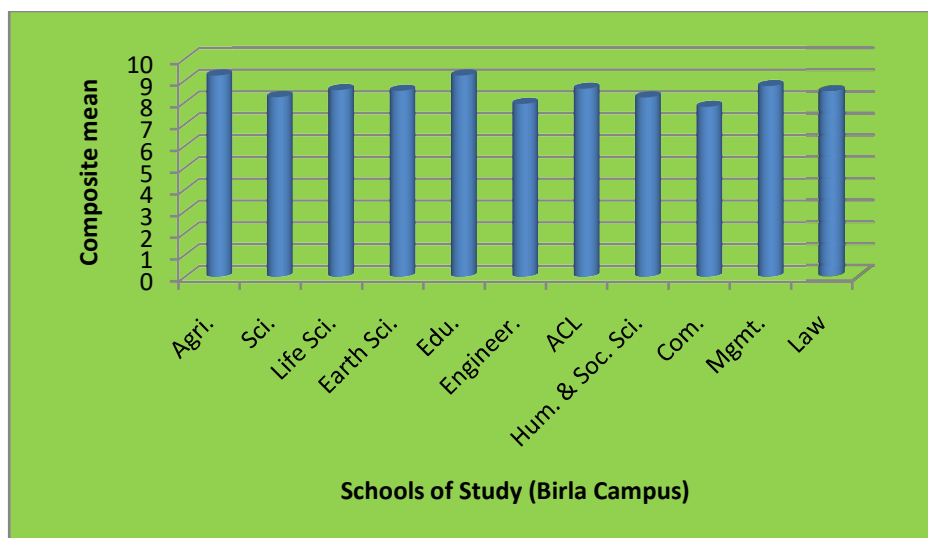
Prospectus 2015-2016

1. ACADEMIC CALENDAR SESSION 2015-16

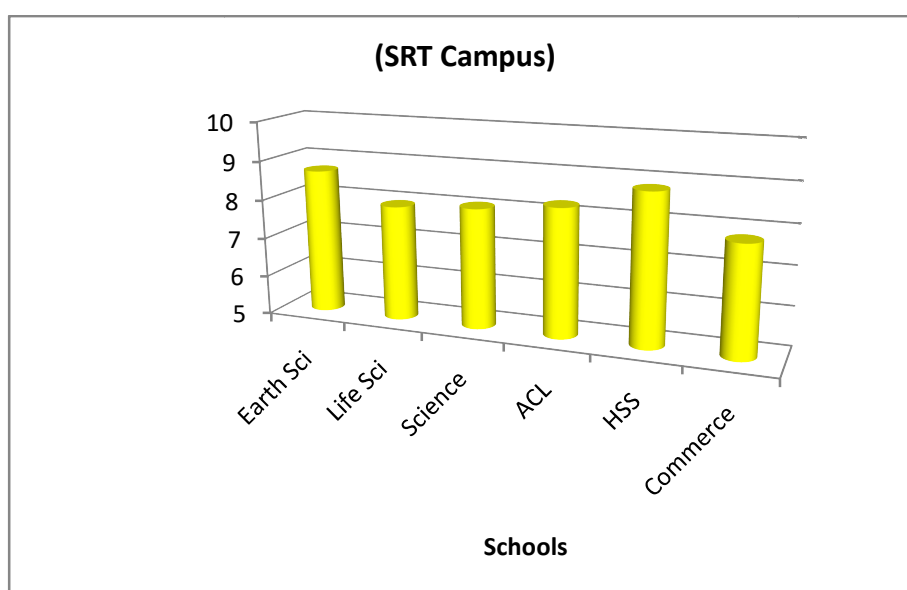
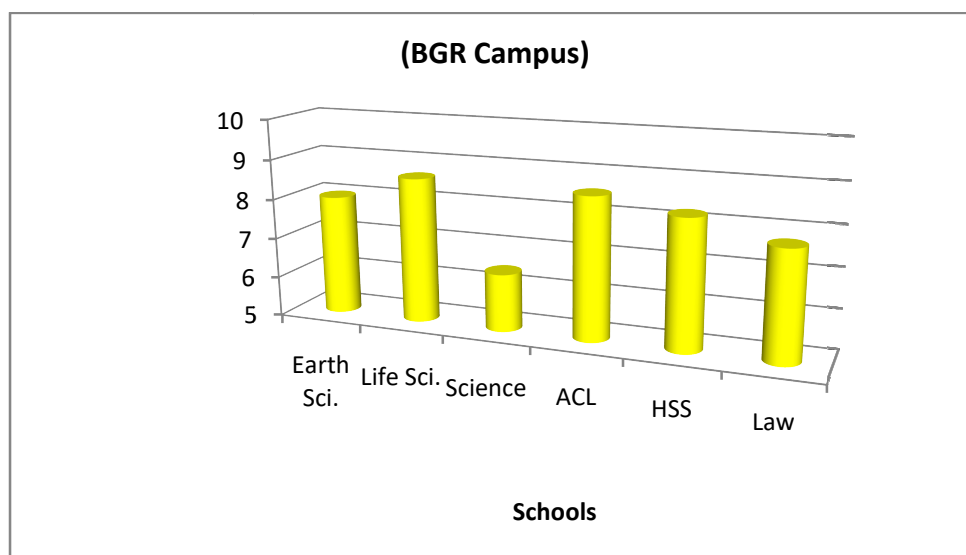
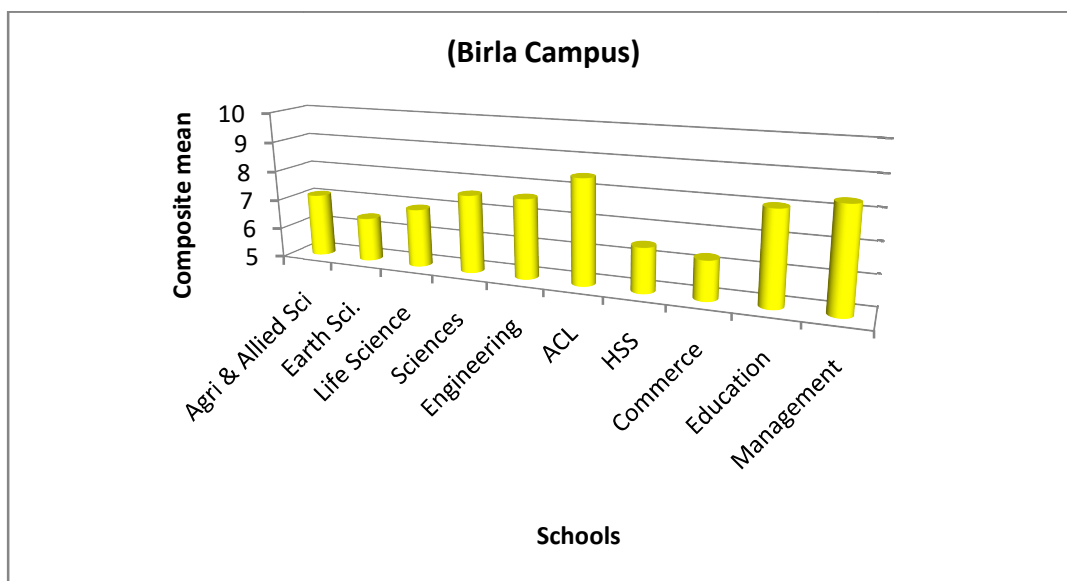
(Approved by the Admission Committee held on 20-03-2015)

- | | |
|--|--------------------------------|
| 1. Sale of admission forms | June 15, 2015-onwards |
| 2. Commencement of the academic session | July 06, 2015 |
| 3 (a) Last date of submitting admission forms for B.A./B.Sc./B.Com. and all UG & PG Courses (only semester system) 1st semester. | July 17, 2015 |
| (b) Last date of admission for all classes | August 08, 2015 |
| (c) Last date of submitting admission forms for students of B.A./B.Sc./B.Com. II & III year (Annual system) | August 08, 2015 |
| OR | |
| Within twenty (20) days of issuing of marksheet of the previous class by the University, whichever is later; | |
| 4. Commencement of classes | July 20, 2015 |
| 5. (a) Dispatch of examination forms (Annual system) to Campuses/Affiliated Colleges/Institutions, | Sept. 14, 2015 |
| (b) Last date for the receipt of the duly completed examinations and other required documents from the campuses/affiliated colleges/ institutions by the University. | Oct. 10, 2015 |
| (c) Last date for the submission of examination forms by the students to their respective Colleges / Institutions upon payment of late fees of Rs.500/- | Nov. 30, 2015 |
| (d) Last date for the submission of examination forms by the students to their respective Colleges / Institutions upon payment with late fees of Rs.1000/- | Dec. 15, 2015 |
| (e) 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, 2015 |
| (f) Conduct of UG annual examination | March 21, 2016 to May 16, 2016 |
| 6. Course duration (including examinations) for UG & PG, Professional & Vocational courses (Semester System) | |
| (a) Odd Semester | 20-07-2015 to 24.12.2015 |
| (b) Even Semester | 11-01-2016 to 31-05-2016 |
| 7. Winter Break | 26.12.2015 to 10.01.2016 |
| 8. Summer Break | 01.06.2016 to 05.07.2016 |
| 9 (I) All U.G., P.G. & P.G. Diploma Courses (Odd Semester) | |
| (a) Commencement of classes | July 20, 2015 |
| (b) Last date for submitting examination forms | Sept. 15, 2015 |
| (c) End semester theory examinations (PG) | Dec. 11, 2015 |
| (d) End semester theory examinations (UG) | Dec. 02, 2015 |
| 9. (II) All U.G., P.G. & P.G. Diploma Courses (Even Semester) | |
| (a) Commencement of classes | Jan. 11, 2016 |
| (b) Last date for submitting admission forms/ registration forms | Jan. 22, 2016 |
| (c) Last date of submitting examination forms | March 15, 2016 |
| (d) End semester theory examinations (PG) | May 16, 2016 |
| (e) End semester theory examinations (UG) | May 02, 2016 |
| 10. University foundation day celebration | Dec. 01, 2015 |
| 11. Birthday ceremony celebration of late Shri Hemvati Nandan Bahuguna | April 25, 2016 |

Students' Feedback on Teachers (Odd Semester 2015-16)



Students' Feedback on Teachers (Even Semester 2015-16)



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

MAJOR RESEARCH PROJECTS				
S. No.	Title of the Project (Name of PI)	Duration	Name of Funding Agency	Total grant sanctioned (Rs. in lakhs)
SCHOOL OF AGRICULTURE AND ALLIED SCIENCES				
Department of Forestry & Natural Resources				
1	All India coordinated project on ecosystem services of sacred groves in Uttarakhand. (Prof. N.P. Todaria; Dr. A.K. Negi & Dr. Sabyasachi Dasgupta)	2012-17	MoEF, New Delhi	31.49
2	Adarsh Paudhshala Pariyojna (Ideal Nursery Project). (Dr. A.K. Negi)	2014-16	HRDI, Gopeshwar	20.00
3	Income generation for rural communities through cultivation and conservation of medicinal plants. (Dr. A.K. Negi)	2013-16	DBT, New Delhi	18.15
High Altitude Plant Physiology & Research Centre				
1	Adarsh Paudhshala Pariyojna (Prof. A.R. Nautiyal)		HRDI, Gopeshwar	20.00
2	Development of model nursery of <i>Hippophae salicifolia</i> and <i>Picrorhiza kurrooa</i> through scientific method. (Prof. M.C.Nautiyal)		HRDI, Gopeshwar	20.00
3	Alpine ecosystem dynamics and impact of climate change in Indian Himalaya (PRACRITI-II) (Prof. M.C.Nautiyal)		SAC, ISRO, Ahmedabad	23.87
4	Promotion of conservation of <i>Nardostachys grandiflora</i> (Jatamansi) by focusing extension of propagation technology and development of clusters with particular reference to higher Himalayan region of Uttarakhand. (Dr. V.K. Purohit)	2015-17	NMPB, New Delhi	48.82
5	Biofortification of rice grains with zinc by the application of plant growth promoting Rhizobacteria as zinc solubilizing agents. (Dr. Babita Patni)	2014-16	UGC, New Delhi (BSR Grant)	6.00
6	Occurrence of aflatoxin producing fungi and aflatoxin in raw herbal materials used for Ayurvedic drug preparation. (Dr. Harish Chandra)	2014-16	UGC, New Delhi (BSR Grant)	6.00
SCHOOL OF EARTH SCIENCES				
Department of Geology				
1	Estimation of Ice depth and surface velocity using GPR & DGPS of Satopanth glacier. (Prof. H.C. Nainwal)	2015-18	SERB-DST, New Delhi	56.00
2	Glaciers of upper Alaknanda Sarsawati basin and climate change (Collaborative project of HNGBU, IMSc Chennai and IISER Pune). (Prof. HC Nainwal)	2014-17	Institute of Mathematical Sciences (DAE-GOI), Chennai	31.50 (HNGBU component)
3	Large scale geological and geotechnical mapping of vulnerable landslide zone along Sonprayag to Kedarnath and to suggest the preventive measure. (Prof. Y.P. Sundriyal)	2016-19	DST, New Delhi	17.00
4	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. (Prof. Y.P. Sundriyal)	May 2013 to April 2016	DST, New Delhi	30.34
5	Strain budget, plate convergence and earthquake occurrence processes in the Garhwal-Kumaun Himalaya (Collaborative project of HNGBU and NGRI Hyderabad), (Dr. S.P.Sati, Co-PI)	2011-16	DST, New Delhi	54.95 (HNGBU component)
SCHOOL OF LIFE SCIENCES				
Department of Botany & Microbiology				
1	Bacterial diversity and community succession in sulfur springs and caves around Sahasradhara. (Dr. Seema Rawat)	2014-16	UGC, New Delhi (Start up Grant)	6.00
2	Screening of thermophilic cyanobacteria containing nonribosomal peptide synthetase gene clusters for their antimicrobial activity. (Dr. Rahul Kunwar Singh)	2014-16	UGC, New Delhi (Start up Grant)	6.00

3	Diversity of microalgae and cyanobacteria across the thermal- and chemical-gradients in geothermal fields of Uttarakhand Himalaya. (Dr. Dhananjay Kumar)	2014-16	UGC, New Delhi (Start up Grant)	6.00
4	Enhancement of anti cancerous compound through different biotechniques in <i>Podophyllum hexandrum</i> . (Dr. Hemlata Bisht, PDF)	2012-17	UGC, New Delhi	PDF
5	Assessment of dominance – diversity and biomass structure of Temperate Grazinglands, Garhwal Himalaya. (Dr. Smriti Kuksal, PDF)	2012-17	UGC, New Delhi	PDF
6	Establishment of Demonstration Unit and Germplasm Resource Centre for Commercial Cultivation of Highly Valuable <i>Stevia rebaudiana</i> , Bertoni. (Dr. Hemlata Bisht)	2012-17	GBPI/IERP/	5.82
7	Preparing chromosome atlas of medicinal plants of Uttarakhand. (Dr. Asha)	2015-17	UGC, New Delhi (Start up Grant)	6.0
Department of Zoology & Biotechnology				
1	Creation of Bioinformatics Facility (BIF) for the promotion of Biological Teaching through Bioinformatics (BTBI) Scheme of BTISnet. (Dr. P.C. Lakhera)	2016	DBT-BIF	13.75
2	Monitoring the self purification capacity of river Alaknanda implementing physical, chemical and biological approaches. (Dr. J.S. Chauhan)	2015-17	BSR GRANT, UGC, New Delhi	6.00
3	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. (Dr. Saurab Yadav)	2015-17	BSR GRANT UGC, New Delhi	6.00
4	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> . (Dr. Sudhir Kumar)	2015-17	BSR GRANT UGC, New Delhi	6.00
5	Evaluation of hormone induced gonadal differentiation in adult gold fish <i>Carassius auratus</i> . (Dr. Indrashish Bhattacharya)	2015-17	BSR GRANT UGC, New Delhi	6.00
Department of Biochemistry				
1	Influence of the ageing on biochemical and physiological changes in plants: Insight into the interlinking of redox regulation. (Dr. Manisha Nigam)	2015-17	BSR GRANT UGC, New Delhi	6.00
2	Identification of phyloquinone role on <i>L. donovani</i> inhibition. (Dr. Nisha Singh)	2015-17	BSR GRANT UGC, New Delhi	6.00
SCHOOL OF SCIENCES				
Department of Chemistry				
1	Herbal anti-diabetic agents from unexplored plants of Garhwal region. (Prof. D.S. Negi)		CSIR, New Delhi	28.00
2	Development of ion sensors for the determination of toxic metals in environmental samples. (Dr. Jitendra Kumar)	2015-17	FRPS,UGC, New Delhi	6.00
3	Optical properties of heterocyclic and aryl based donor-acceptor conjugated systems. (Dr. Prashant K. Hota)	2015-17	FRPS,UGC, New Delhi	6.00
Department of Physics				
1	MoU to 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)	2011-16	Bhabha Atomic Research Centre, Mumbai	48.93
2	Strengthening the infrastructural facility at nodal centre at H.N.B. Garhwal University to pursue Radon/Thoron studies in Northern India. (PI-Prof. R.C. Ramola; Co-PI- Dr. Veena Joshi)	2014-17	BRNS, DAE	85.04
3	A comparative study among different techniques for Radon/Thoron progeny measurements in the normal and high background radiation areas. (Prof. R.C. Ramola)	2011-16	BRNS, DAE	33.78
4	Neutrino masses and mixing in the standard model and beyond. (Prof. S. Dev)	2015-18	CSIR New Delhi	3.66
5	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)	2016-19	SERB-DST, New Delhi	25.68
Department of Mathematics				
1	Numerical investigation of instability of Poiseuille flow in a vertical pipe filled with porous medium.	2014-18	DST- SERB, New Delhi	27.38

	(Dr. Ashok Kumar)			
2	Numerical investigation of linear stability of buoyancy assisted mixed convective flow in a vertical pipe filled with porous medium. (Dr. Ashok Kumar)	2014-16	UGC, New Delhi (BSR Grant)	6.00
Department of Pharmaceutical Sciences				
1	Preparation and evaluation of effective herbal formulations for alopecia (baldness) and identification of chief constituent(s). (Dr. Mona Semalty)	2015-18	UGC, New Delhi	10.95
SCHOOL OF HUMANITIES AND SOCIAL SCIENCES				
Department of Political Science				
1	Gaps between environmental policies and human actions: A study of the impact of natural disaster in Garhwal Himalayas on the women of Rudraprayag district and their coping strategies. (Prof. Annpurna Nautiyal)	2014-17	ICSSR, New Delhi	49.00
Department of History including Ancient Indian History, Culture & Archaeology				
1	Archaeological investigations of upper Satluj valley in the trans-Himalayan region of Kinnaur to study the emergence of burial culture and pyrotechnology. (Prof. Vinod Nautiyal)	2013-16	UGC, New Delhi	10.89
SCHOOL OF MANAGEMENT				
Centre for Mountain Tourism & Hospitality Studies				
1	Planning for community based ecotourism through integrated values and development in Jaunsar region of Uttarakhand. (Prof. S.K. Gupta)	2015-17	ICSSR, New Delhi	5.0
2	Strategies planning and tourist perspective of tourism development of Bhilangana valley of Garhwal Himalayas. (Dr. Rashmi Dhodi)	2014-16	ICSSR, New Delhi	5.00
MINOR RESEARCH PROJECTS				
Department of Home Science				
1	Educating adolescent girls and young women on health and hygiene related issues in district Pauri of Uttarakhand (Dr. Rekha Naithani)	2015-16	UCOST, Dehradun	3.00
Department of Economics				
1	Analysis of the dietary patterns 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. (Dr. Prashant Kandari)	2015-16	NCW, New Delhi	2.25
Department of Law				
1	A study of cyber system: New science and technology input in the developing hill state Uttarakhand. (Dr. Sanjeev Chadda)	2014-16	UCOST, Dehradun	2.41

COMPLETED RESEARCH PROJECTS-2015				
S. No.	Name of the Project (Name of PI)	Duration	Funding Agency	Total grant sanctioned (Rs. in lakhs)
SCHOOL OF AGRICULTURE AND ALLIED SCIENCES				
Department of Forestry & Natural Resources				
1	Rashtriya Aushadi Padap Mission, Chauras campus. (Dr. A.K. Negi)	2013-15	HRDI, Gopeshwar	20.00
2	Networking Project on Non-Timber Forest Products (NTFPs) in Uttarakhand. (Dr. D.S. Chauhan)	2012-15	ICFRE, Dehradun	10.50
3	Carbon stock of Pinus roxburghii in Garhwal Himalaya. (Dr. Munesh Kumar)	2013-15	SERB-DST, New Delhi	12.00
High Altitude Plant Physiology & Research Centre				
1	Alpine ecosystem dynamics and impact of climate change in Indian Himalaya (PRACRITI-II). (Prof. M.C. Nautiyal)	2012-15	Space Applications Centre, ISRO, Ahmedabad	23.87
2	Rashtriya Paudhshala yojna, Amesh Kutki Dr. M.C. Nautiyal	2014-15	HRDI, Gopeshwar	20.00
SCHOOL OF EARTH SCIENCES				
Department of Geology				
1	Geological documentation of the damages in Alaknanda and Mandakini Valley during the flash flood June, 2013 and to suggest geological, geomorphological and geo-technical	2013	DST, New Delhi	13.00

	remedial measures to minimise the losses in future (Prof. Y.P. Sundriyal)			
2	Tectono-geomorphic evolution of the Quaternary terraces of Alaknanda Valley between Devprayag Fault and Main Central Thrust (Prof. Y.P. Sundriyal)		DST, New Delhi	34.50
SCHOOL OF LIFE SCIENCES				
Department of Botany & Microbiology				
1	Identifying the changes in vegetation on ridge tops to predict climate impact and assisted migration (Prof. C.M. Sharma)	2012-15	DST, New Delhi	40.43 Lakhs
Department of Zoology & Biotechnology				
1	Characterization of psychrophilic bacterial diversity of Himalayan region in Uttarakhand. (Dr. G.K. Joshi)	2012-15	USBD, Govt. of Uttarakhand	9.30
SCHOOL OF SCIENCES				
Department of Chemistry				
1	A Comprehensive Study of Natural Radiation Level in Pauri and Udham Singh Nagar Districts of Uttarakhand. (Dr. Veena Joshi)	2012-15	BRNS, Dept. of Atomic Energy, GOI	33.43
Department of Physics				
1	Modeling radon exhalation into soil chambers for continuous flux and soil gas measurements and its validation through multi-parametric measurements: A case study at Garhwal Himalaya region. (PI- Dr. A.A. Bourai; Co-PI- Dr. Veena Joshi)	2011-15	BRNS, Dept. of Atomic Energy, GOI	21.56
Department of Pharmaceutical Sciences				
1	Studies on high altitude antioxidant herbs used by the tribes of Garhwal region. (Dr. Nitin Sati)	2012-15	UGC, New Delhi	9.40

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

- **The University is committed to implement the CBCS in UG programmes in letter and spirit.**
The CBCS in UG courses have been successfully implemented in the academic session 2015-16. Meetings and workshops were conducted to explain the intricacies of the CBCS to the Principals/ Directors of the affiliated colleges, teachers and students of the Campuses (Annexure).
 - i) 03-07-2015: Meeting with Principals/ Directors of affiliated colleges/ Director of Campuses/ Deans of Schools (Birla Campus, Srinagar).
 - ii) 14-08-2015: Workshop for students and faculty members (SRT Campus, Tehri)
 - iii) 07-09-2015: Workshop for students by Campus Director (BGR Campus, Pauri).
 - iv) 12-09-2015: Workshop for students by Campus Director (BGR Campus, Pauri).
 - v) 15-09-2015: Workshop for students (SRT Campus, Tehri)
 - vi) 18-09-2015: Meeting of all faculty members of English/ Hindi/ Sanskrit with Dean Arts, Communication & Languages (Birla Campus, Srinagar).
 - vii) Meeting of Controllers of Examinations and Convener CBCS Committee (Birla Campus, Srinagar).
 - viii) 23-09-2015: Workshop for students and faculty members (Birla Campus, Srinagar).
 - ix) 24-09-2015: Workshop for students (Birla Campus, Srinagar).
 - x) 26-09-2015: Open session-Interaction with students (Birla Campus, Srinagar).
 - xi) 28-09-2015: Workshop for B.Com. students (Chauras Campus).
 - xii) 03-10-2015: Workshop for students by Campus Director (BGR Campus, Pauri).
 - xiii) 29-10-2015: Workshop for Principals/ Directors of affiliated colleges of Dehradun and Haridwar districts. Controller of Examinations (Main & Professional) also attended (SBS Institute, Balawala, Dehradun)
 - xiv) 29-10-2015: Workshop for Principals/ Directors and faculty members of affiliated colleges of Tehri and Uttarkashi districts. Controller of Examinations (Main) also attended (SRT Campus, Tehri)
- **The departments shall be encouraged to organize Seminars, Workshops, Summer Schools etc.**
During the session 05 National Conference/ Seminar, 04 Regional/ Institutional Seminars, 02 National Workshops and 09 Institutional Workshops were organized by different departments (Annexure)
 - i) First NATIONAL CONFERENCE on 'Radiation Awareness and Detection in Natural Environment', jointly organized with Department of Physics SRT Campus, Tehri, HNB Garhwal University and Department of Physics, Govt. PG College New Tehri . **Convener:** Dr. Veena Joshi. (June 15-17, 2015). **Department of Chemistry**
 - ii) NATIONAL CONFERENCE on 'Prevention of Corruption in India: Challenges Ahead (PCICA 2015)', organized by Department of Commerce, SRT Campus (October 16-17, 2015). **Department of Commerce**
 - iii) NATIONAL SEMINAR on 'Climate Change, Resources, Bio-Diversity & Environmental Challenges: Issues and Strategies for Sustainable Development', Sponsored by MoES, ICSSR, IHCAP, GBPIHED, DST, UCOST, UCB, ISRO, USAC at Chauras Campus. **Convener:** Prof. M.S.S. Rawat; Experts: Dr. Rajendra Singh, Waterman of India; Prof. V.S. Manhas, Vice-President NAGI; Prof. Girijesh Pant, Director U-SAC. (October 28-30, 2015). **Department of Geography**
 - iv) Two day NATIONAL CONFERENCE on 'Microbes in Extreme Environment: Diversity and Translational Application (MEEDTA 2015)', Chauras Campus **Experts:** Prof. TM Mohapatra (FRST M&H, FAMS) Pro- Vice Chancellor, KIIT University, Bhubaneswar; Distinguished Professor & Former Director, Institute of Medical Sciences, Banaras Hindu University, Varanasi; Prof. Ashwani K. Rai (FNASc, FNAAS, FBRSI) CSIR-Emeritus Scientist, Centre of Advanced Study in Botany, Banaras Hindu University, Varanasi; Prof. Tulsi Satyanarayana (AMI, FNAAS, FAMI FBRSI,); Department of Microbiology, University of Delhi South Campus; President, Association of Microbiologists of India (AMI). **Convener:** Prof. A.B. Bhatt, Co-organizing Secretary: Dr. Rahul K Singh and Dr. Vineet K. Maurya. (October 30-31, 2015). **Department of Botany & Microbiology**
 - v) REGIONAL SEMINAR on 'Man and Nature' and Annual General Meeting of Society for Himalayan Action Research and Development, BGR Campus Pauri. (28 November, 2015). **Department of Zoology & Biotechnology**
 - vi) SEMINAR was organized on 'Life and Works of Dr. B.R. Ambedkar' at Swami Manmathan Auditorium, Chauras Campus of the University on the Martyr's day of Dr. B.R. Ambedkar. (06 December, 2015). **Department of Adult Continuing Education and Extension**

- vii) SEMINAR on 'Best Practices in Achieving Institutional Excellence in Higher Education' in collaboration with IQAC at Srinagar Campus (March 2-3, 2016). Convener: Prof. Shashi Kiran Pandey. **Department of Education**
 - viii) NATIONAL VEDIC CONFERENCE on "Relevance of Vedic Environmental Ethics in the Conservation of Contemporary Environment" Convener: Prof. Dinesh Prasad Saklani (March 4-6, 2016). **Department of History Including Ancient Indian History, Culture & Archaeology**
 - ix) On the occasion of International Women's Day a one day SEMINAR entitled "Role of Mass Media in Gender Sensitization" was organized in the departmental conference/seminar hall, Birla campus, HNBGU, Srinagar Garhwal. (08 March, 2016). **Department of Adult Continuing Education and Extension**
 - x) WORKSHOP on 'Option for Higher Studies in United States of America', in collaboration with the United States Educational Foundation in India, New Delhi **Organizer:** Annpurna Nautiyal (April 18, 2015). **Department of Political Science**
 - xi) Two days 'PROFESSIONAL TRAINING PROGRAMME on Software Statistica' (May 11-12, 2015). **Department of Statistics**
 - xii) Three days NATIONAL WORKSHOP on "Analysis of Official Statistics Using SPSS", sponsored by Ministry of Statistics & Programme Implementation, Govt. of India, New Delhi. **Department of Statistics**
 - xiii) WORKSHOP on 'Environmental Problems and Issues and their Solutions through People Participation', on the occasion of World Environment Day (5th June) jointly with Garhwal Tech-Mukti-Bodh Sanstha, Srinagar held at Srinagar campus (5th June, 2015). **Department of Education**
 - xiv) WORKSHOP on 'Operation of Adventure Tourism and Water-Based Sports Activities with Special Reference to Himalayan Environment and Awareness on Water Conservation', at Department of Geography, Srinagar. Sponsored by GMVN and Sparsh Ganga Board, Uttarakhand Govt. Experts: Prof. S.C. Bagri, CMTHS; Dr. A.K. Sahani, GBPIHD. (September 09, 2015). **Department of Geography**
 - xv) WORKSHOP on 'Research Methodology' (For the students of Pre. PhD. Programme and Research Scholars of School of Humanities & Social Sciences) organized in collaboration with IQAC (October 12-15, 2015). **Department of Political Science**
 - xvi) University Level WORKSHOP on 'Research Methodology' held at Chauras Campus Number of participants: 22. (November 3-4, 2015). **Department of Commerce**
 - xvii) One Day WORKSHOP on 'Soft Skills Development' on 7th November, 2015. Expert: Ms. Ila Rawat, Assistant Professor, National Institute of Fashion Technology, Patna. **Department of Business Management**
 - xviii) WORKSHOP during 'Swami Vivekanand Jayanti Samaroh' (January 9-11, 2016). **Department of Drawing & Painting**
 - xix) DST sponsored 'FIELD WORKSHOP on Landslides in Lesser and Higher Central Garhwal Himalaya with special reference to their Occurrences along Mandakini and Lower Alaknanda Valleys' Grant sanctioned 5.0 Lakh only. (February 29-March 2, 2016). **Department of Geology**
 - xx) Two Days WORKSHOP on 'Leap to Success: Development of Communication Skills' (March 4-5, 2016). Experts: Ms. Iti Rawat, Managing Director, Think Hall Pvt. Ltd., Bangalore, Captain Mohan Singh Rawat, Supporting Staff, Think Hall Pvt. Ltd. **Department of Business Management**
- **New job oriented certificate, diploma courses shall be introduced.**
Although, no new job oriented course was introduced, however, the process for opening of M.PEd. Programme was completed including the visit and clearance by NCTE for the session 2016-17.
 - **Impetus will be given to extension activities so as to fulfil the institution's social responsibility.**
 - vii) A Community Development Cell (CDC) has been established in the University which in consultation with the district administration has adopted 04 Gram Panchayats namely Koti, Kathud, Pokhri (Ka) and Doab in District Pauri Garhwal under the *Unnat Bharat Abhiyaan* (UBA). Further, 12 villages were selected under these Gram Panchayats: **Koti:** Koti, Durgakot, Panaloyun urf Naisu, Kameda & Saindul; **Kathud:** Kathud & Saraikhet; **Pokhri (ka):** Pokhri (Ka); **Doab:** Doab, Kaldung, Gadwagad & Radhaballabh Puram. **Coordinator:** Prof. Annpurna Nautiyal, Department of Political Science
The work done by the CDC during the year are as follows:
 - To assess the needs and requirements of the selected villages and to identify the resource availability in these regions, the cell involved the students of Political Science, Economics, Sociology and Forestry departments of the University in the preliminary socio-economic survey during the month of January, 2016.

- Meeting with local representatives of the adopted Gram Panchayats in January, 2016
- Meeting with Chief Development Officer, Pauri and District Development Officer, Pauri in February, 2016 and submission for Draft Action Plan Report by the cell to the district administration for seeking their support and cooperation
- Community Development Cell with the support of Department of Adult, Continuing and Extension Education of the University organized the following programs in the adopted villages:
 - Five Days workshop on 'Career Guidance and Counselling' was organized by the department at Janta Inter College, Jamnakhali, Pauri Garhwal. (02-06 March, 2016).
 - A Three days (Health Management & Care for pre-school children camp was organized by the department at village Kathood and Pokhari, Pauri Garhwal. (27-29 March, 2016).
 - Yoga camp was organized with the support of Yoga Department of the University in the adopted villages (March, 2016).
- viii) INDUCTION WORKSHOP/ TRAINING PROGRAMME on 'Available propagation and cultivation practices (Agro-technology), post-harvest techniques in terms of harvesting, grading, packaging and marketing of the MAPs produced' organized under National Medicinal Plants Board (NMPB), Govt. of India funded R&D project No. of participants: 45. Organizer: Dr. V.K. Purohit (March 16, 2016). **High Altitude Plant Physiology Research Centre**
- ix) Four (04) DST-INSPIRE Science Camps in which 1337 (top 1% performer of Class X Board) students from 136 Schools of Garhwal Mandal participated sponsored by DST under INSPIRE Scheme (1st camp- 20th December to 26th December 2015, 2nd camp- 26th December 2015 to 1st January, 2016, 3rd camp- 19th to 25th January 2016, 4th camp- 31st January to 06th February 2016). Grant sanctioned Rs.81.00 Lakh only. **Coordinator:** Prof. Y.P. Sundriyal

• **More linkages shall be developed with the industry for facilitating student placement.**

- i) 'AAROHAN' an ambitiously conceived, meticulously planned and carefully executed Industry Academia Interface event was organized by the Department of Business Management at HAPPRC auditorium, Srinagar Campus.
 - 'Aarohan' held on 2nd & 3rd April 2015 focussed on the themes: Innovation & Enterprise-Exploring Talents; Role of Industry in enriching academic inputs; and Changing paradigms of recruitment policies in Business Houses. **Resource Persons:** Sh. Prasanna Reddy, CEO, GVK, Hydropower Project, Srinagar Garhwal; Prof. S.P. Kala, formerly Head, Department of Business Management; Shri Vikram Sharma, Head Tata Motors, Pantnagar, Nainital; Mr. Pankaj Gupta, President, Industries Association of Uttarakhand; Dr. Mohandas, Senior Manager, IIFCO, New Delhi; Mr. Mahipal Singh Rawat, Branch Head, Jet Fleet Noida; Prof. V.K. Singh, Head & Dean, FMS, Gurukul Kangri University, Haridwar; Mr. Rajan Kumar Singh, CEO, Infratech India Ltd. Texplas Group, Haridwar; Mr. Vijay Bhandari, Head HR, Sharon Bio Medicine, Mumbai; Ms. Neena Sangeeta Sharma, Proprietor, Synergy Consultants, Dehradun; Col (Dr.) D.P. Dimri, Soft Skill Trainer; Shri S.C. Nautiyal, Additional Director, Department of Industries, Govt. of Uttarakhand
 - 'Aarohan' held on 6th November 2015 deliberated on the themes: Waves of Change: Ocean of opportunities; Negotiating the Sea of Opportunities with professional Skills; and Connect, Collaborate, Differentiate. **Resource Persons:** Dr. Ramesh Pokhriyal 'Nishank', Member of Parliament and Former Chief Minister of Uttarakhand; Shri Mohan Kala, Director Sharon Bio Medicine; Shri Virendra Rawat, Founder-Green School Movement in India; Smt. Anita Goel, Associate Professor, Delhi University; Shri Rupesh Shah, CEO-InOpen Technologies, Mumbai; Shri Ajay Goel, Wadhvani Foundation Group & Executive Vice President, Academia-Government Linkages Govt. of India; Ms. Rekha Verma, University of Petroleum and Energy Studies, Dehradun; Shri Mahipal Rawat, Business Head Jet Fleet New Delhi; Shri Puran Singh Bisht, Accounts Manager, Jet Fleet New Delhi.

Outcomes: Both these events succeeded in bringing in corporate houses to the university and deepened the industry academia linkages. As a result of these, the department of Business Management successfully signed an MoU with Cello Group, Haridwar and establishment of Entrepreneurship Development Cell is in pipeline. **Coordinator:** Prof. S.C. Bagri, **Convenor:** Dr. Monika Kashyap, **Co-Convenor:** Mr. Mahendra Babu Kuruva (Department of Business Management)

- ii) MoU has been signed between Hemvati Nandan Garhwal University and **Bal Research Foundation, Bengaluru** on 21 October 2015 to foster research collaboration enabling joint industry and research activities, exchange of visiting experts, exchange of facilities and equipments, exchange of scholarly information etc.

7.4 Contribution to environmental awareness/ protection

- The University celebrated the Swachhta Pakhwada.
- Faculty members, non-teaching staff and students of all the departments regularly undertook cleanliness drive in their premises.
- Some of the departments took initiatives like: creation of general awareness about environmental protection through plantation work in the campus (Horticulture, Chauras Campus); students were motivated to do the field trips in the disasters hit areas of Uttarakhand for on the spot study (Geology, Birla Campus); poster making competition was organised to celebrate the 'National Science day' on the topic SAVE PLANET EARTH (Biochemistry, Birla Campus); students prepared charts, posters & flash cards to create environmental awareness among rural people (Home Science); environment awareness lectures were organized for students (Pharmaceutical Sciences); production of short documentaries on environmental issues by the students to conduct environment awareness programme for community (Centre for Journalism & Mass Communication, Chauras Campus); organized seminar & workshop on environment and undertook plantation in campus (Sociology & Social Work, Birla Campus); (Adult Continuing Education & Extension, Birla Campus); plantation in campus and delivering public lectures (Geography, BGR Campus); Conducted awareness programme for adolescent girls about sanitation and hygienic practices, and about disposing household and personal waste (sanitary products) in a proper way (Home Science, BGR Campus); students are assigned dissertation work in hydrology, hydrochemistry of springs so as to detect anomalies (Geology, SRT Campus); organize legal awareness camp (Law, SRT Campus).
- NSS volunteers participated in the Cleanliness drives organized at Birla Campus, Srinagar; Plantation Programme on Independence Day in the BGR Campus, Pauri (August 15, 2015); Swachhta Programme conducted on Gandhi Jayanti (October 02, 2015) at SRT Campus, Tehri.
- All NCC cadets and ANO participated in the plantation programmes organized at SRT Campus, Tehri.
- A workshop has been jointly organized on 'Environmental problems and issues and their Solutions through people participation' on the occasion of World Environment Day by Deptt. of Education, HNBGU, Srinagar-Garhwal and Garhwal Tech-Mukti-Bodh Sanstha, Srinagar at HNBGU, Srinagar Garhwal (5th June, 2015).