

**DOLPHIN (PG) INSTITUTE OF BIOMEDICAL &
NATURAL SCIENCES,
DEHRA DUN 248 007**

**Annual Quality Assurance Report
(AQAR) of the IQAC
(Year of Report: 2013-14)**

Submitted to



NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grant Commission
P.O. Box No. 1075, Nagarbhavi, Bangalore- 560 072

The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. (Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)

Part – A

1. Details of the Institution

1.1 Name of the Institution

Dolphin (PG) Institute of Biomedical and Natural Sciences

1.2 Address Line 1

Manduwala, near Suddhowala

Address Line 2

Chakrata Road, P.O. Manduwala

City/Town

Dehra Dun

State

Uttarakhand

Pin Code

248 007

Institution e-mail address

mail@dolphininstitute.in

Contact Nos.

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Name of the Head of the Institution:

Dr. Shailja Pant

Tel. No. with STD Code:

0135-2694547

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Name of the IQAC Coordinator:

Dr. Shruti Sharma

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9568004557

IQAC e-mail address:

coordinatoriqac@dolphininstitute.in1.3 NAAC Track ID (For ex. MHC0GN 18879) **10412****NAAC Executive Committee No. & Date:***(For Example EC/32/A&A/143 dated 3-5-2004.**This EC no. is available in the right corner- bottom of your institution's Accreditation Certificate)*EC/56/A&A/018; dated
16/09/2011.

1.4 Website address:

www.dolphininstitute.in

Web-link of the AQAR:

<http://dolphininstitute.in/hpanel/iqac/aqar2013-14.pdf>

1.5 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	B	2.81	2011	5 years
2	2 nd Cycle				
3	3 rd Cycle				
4	4 th Cycle				

1.6 Date of Establishment of IQAC:

09/05/2011

1.7 AQAR for the year:

2013-14

1.8 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 (211-12) submitted on-line to NAAC on (29/09/2012)
- ii. AQAR (212-13) submitted on-line to NAAC on (30/09/2013)
- iii. AQAR _____ (DD/MM/YYYY)
- iv. AQAR _____ (DD/MM/YYYY)

1.9 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

1.10 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

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

HNB Garhwal Central University,
Srinagar-Garhwal (U.K.)

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

Autonomy by State/Central Govt. / University	N/A		
University with Potential for Excellence	N/A	UGC-CPE	Nil
DST Star Scheme	Nil	UGC-CE	Nil
UGC-Special Assistance Programme	Nil	DST-FIST	Nil
UGC-Innovative PG programmes	Nil	Any other (<i>Specify</i>)	Nil
UGC-COP Programmes	Nil		

2. IQAC Composition and Activities

2.1 No. of Teachers	09
2.2 No. of Administrative/Technical staff	02
2.3 No. of students	02
2.4 No. of Management representatives	01
2.5 No. of Alumni	02
2.6 No. of any other stakeholder and Community representatives	02
2.7 No. of Employers/ Industrialists	02
	02

2.8 No. of other External Experts

2.9 Total No. of members

2.10 No. of IQAC meetings held

2.11 No. of meetings with various stakeholders:

No.	<input type="text" value="03"/>	Faculty	<input type="text" value="04"/>
Non-Teaching Staff/ Students	<input type="text" value="03"/>	Alumni	<input type="text" value="01"/>
		Others	<input type="text" value="02"/>

2.12 Has IQAC received any funding from UGC during the year? Yes No

If yes, mention the amount

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

- Conducted a one-day seminar for the faculty to prepare research project proposals to be submitted to various Central & State Govt. funding agencies.
- A one day orientation programme for the parents of the first year students.

2.14 Significant Activities and contributions made by IQAC.

- Established linkages with Govt. of India Research Institutes with State of art technology in the field of Molecular genetics and biotechnology.
- Arranging 'hands-on' training and workshop in the field of Molecular genetics & biotechnology in collaboration with Wildlife institute of India & Zoological Survey of India, Ministry of Environment, Forests and Climate Change for the skill development of students of the State.
- Career Guidance and Placement Cell strengthened.
- Implemented value added certificate courses & pre- placement training program for the students.
- Strengthened the Entrepreneurship Development Cell by conducting Entrepreneurship training workshop for the youth of the State in collaboration with Uttarakhand State Biotechnology Department .
- Upgraded library by subscription to e-journals.
- More avenues for students to engage in community services in the form of health camps, physiotherapy centers, etc. in the neighbouring districts.
- Sensitizing students to ecological and environmental issues through celebrations of Environment & Biodiversity Day, and Wildlife week.
- Encouraged Publication of a number of books and e-books by faculty.
- Seminars and invited talks arranged on contemporary topics.
- Conduction of Faculty development programme every year.
- Encouraged the faculty members to pursue research in their respective field of study.
- IQAC meeting held on a regular basis with members of the various committee as a part of Academic Review activity.

2.15 Plan of Action by IQAC/Outcome The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

Plan of Action	Achievements
* To encourage all the departments to conduct seminars, hands-on trainings and workshops, Industrial and educational visits as part of continuous up gradation of the skills of the students .	The PG Department of Biotechnology is organising a 03 days ' <i>Hands-on training programme on DNA Bar-coding and its Applications</i> ' and a ' <i>Workshop on advances in Biotechnology and its applications in Conservation Biology</i> ' in collaboration with Wildlife Institute of India and Zoological Survey of India, both premier Scientific organizations of MOEF & Climate Change, GOI, New

	<p>Delhi. A total of 16 outstanding scientists and professors will deliver the specialized lectures.</p> <p>The entrepreneur cell organised one week training on “Entrepreneurship based programme on Biotech industries”.</p>
To encourage the Organising Committee to generate funding from various GO’s & NGO’s to minimize the Registration fee for the students.	Funding has so far been granted by DBT, DST, DRDO & ZSI, Kolkata. It is in pipeline with DRDO, ICAR, INSA, CSIR, ICMR & MOEF.
Enhancing employability by introducing additional interdisciplinary programmes	MOU with Drug Manufacturers Association, Uttarakhand and Association of Industries, Uttarakhand to provide internship to students.
To publish a compilation of research papers, books and conference proceedings of the teachers belonging to various disciplines.	Published a compilation of research articles, chapters in books, e-books and text books of the faculty belonging to various disciplines.
To conduct inter-collegiate tournaments under the auspices of affiliating University.	The college conducted Inter-College Volley ball tournament both for boys and girls and similarly inter-college basket ball tournament for boys & girls.
Encourage the students to participate in various Inter-University games tournaments.	<p>1. Girl Students participated in inter-University Basket ball tournament for girls at Jalandhar as part of University team.</p> <p>2. Boy students participated in inter-University Basket ball tournament for boys at Murthal, Haryana as part of University team.</p>
Alumni Association	The Alumni association of the Institute was Registered under Societies Act

	during the current year.
Academic Review activity	Management council meeting of the College is held regularly on monthly basis to review academic performance of various departments.
To encourage various departments to apply for major and minor projects.	Various departments have submitted their proposals for major and minor projects. A number of which have been sanctioned by various Central & State Govt. funding agencies.
To encourage the students to participate in the college, university level sports and games events.	Students actively participated in the College, university level sports and games events and bagged several medals and awards.
To encourage the students to participate in the District/ State level sports and games events.	01 student was selected in Inter District selection trial for Volley ball (boys) and was selected for the State team.

** Attach the Academic Calendar of the year as Annexure.*

2.16 Whether the AQAR was placed in statutory body Yes No
 Management Syndicate any other body

Provide the details of the action taken.

The management approved the plan of action and gave consent to implement them.

Part – B

Criterion – I

1. 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
Ph.D.	03	----	03	--
PG	08	---	08	--
UG	03	----	03	---
PG Diploma	00	---	----	----
Advanced Diploma	00	----	----	---
Diploma	00	----	----	---
Certificate	00	-----	---	----
Others (Paramedical Sciences)	05 (02 PG & 03 UG)	-----	05	---
Total	19	-----	19	---
Interdisciplinary	17		17	---
Innovative	---		--	---

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

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	14
Trimester	00
Annual	05

1.3 Feedback from stakeholders* Alumni Parents Employers Students
(On all aspects)Mode of feedback : Online Manual Co-operating schools (for PEI)

*Please provide an analysis of the feedback in the Annexure

Annexure.....1 (attached)

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

The affiliating University did not revise the Syllabus in the current year.

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

NO

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
70	49	17	04	---

2.2 No. of permanent faculty with Ph.D.

38

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
10	09	0	01	0	0	0	0	10	10

2.4 No. of Guest and Visiting faculty and Temporary faculty

04

06

08

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	03	10	35
Presented papers	04	07	01
Resource Persons	----	01	02

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

*Establishing the session plan for every subject well before the commencement of each semester along with the course hand outs which are made available to all students on the start of the academic year.

* Preparation of teacher's diary with complete details of the weekly teaching plan and day to day progress of syllabi.

* Educational tours for the students to Industries and Research Institutes to apprise them about the application of technology they study in class rooms.

* Use of ICT in teaching learning process, both in the class rooms and labs. Also through video conferencing with outside faculty as well.

*Teacher's study materials [soft copy-power point/PDF presentation] are shared

with students.

*Teaching faculty and students are encouraged to use latest technology such as smart class rooms, LCD, internet, etc., for the teaching and learning process. Over head LCD have been provided in class

*Faculty members are provided with DESKTOPS with internet connectivity by the management to support the ICT.

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

227

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

Examinations conducted as per University rules.

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

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2.10 Average percentage of attendance of students

90.1%

2.11 Course/Programme wise distribution of pass percentage:

University Result at a Glance: Session 2012-2013 (U.G.)

S.No.	Title of the programme	Total no. of students appeared	Division				
			Distinction %	I %	II%	III%	Pass %
1.	B.Sc. Biotechnology-1 st Year	31	9.68	32.25	29.03	9.68	80.64
2.	B.Sc. Biotechnology-2 nd Year	43	2.33	25.58	65.12	6.97	100.00
3.	B.Sc. Biotechnology-3 rd Year	31	6.45	41.93	51.61	-	100.00
4.	B.Sc. Medical Lab Technology-1 st Year	49	16.33	79.59	4.08	-	100.00
5.	B.Sc. Medical Lab Technology-2 nd Year	48	16.66	47.92	35.42	-	100.00
6.	B.Sc. Medical Lab Technology-3 rd Year	40	7.50	75.00	17.50	-	100.00
7.	B.Sc. Medical Microbiology-1 st Year	31	32.26	54.84	12.90	-	100.00
8.	B.Sc. Medical Microbiology-2 nd Year	33	18.18	72.73	9.09	-	100.00
9.	B.Sc. Medical Microbiology-3 rd Year	22	27.27	72.73	-	-	100.00
10.	Bachelor of Physiotherapy-1 st Year	34	-	64.70	32.35	-	97.05
11.	Bachelor of Physiotherapy-2 nd Year	31	-	51.61	45.16	-	96.77
12.	Bachelor of Physiotherapy-3 rd Year	25	-	64.00	32.00	-	96.00
13.	Bachelor of Physiotherapy-4 th Year	37	5.40	89.18	2.70	-	97.29

14.	B.Sc. Forestry-1 st Year (I Sem)	98	13.26	56.12	23.47	-	92.85
15.	B.Sc. Forestry-1 st Year (II Sem)	93	15.05	61.29	20.43	-	96.77
16.	B.Sc. Forestry-2 nd Year (III Sem.)	79	25.32	64.56	10.12	-	100.00
17.	B.Sc. Forestry-2 nd Year (IV Sem)	79	35.44	60.76	2.53	-	98.73
18.	B.Sc. Forestry-3 rd Year (V Sem.)	55	36.36	61.82	1.82	-	100.00
19.	B.Sc. Forestry- 3 rd Year (VI Sem.)	55	23.64	65.45	10.91	-	100.00
20.	B.Sc. Forestry- 4 th Year (VII Sem.)	43	30.23	60.47	9.30	-	100.00
21.	B.Sc. Forestry-4 th Year (VIII Sem.)	43	20.93	55.81	23.25	-	100.00
22.	B.Sc. Agriculture- 1 st year (I Sem.)	60	30.00	68.3	1.67	-	100.00
23.	B.Sc. Agriculture- 1 st year (II Sem.)	60	20.00	73.34	6.66	-	100.00
24.	B.Sc. Agriculture- 2 nd year (III Sem.)	55	23.64	76.36	-	-	100.00
25.	B.Sc. Agriculture- 2 nd year (IV Sem.)	55	41.82	54.54	1.81	-	98.18

University Result at a Glance: Session 2012-2013 (P.G.)

S.No.	Title of the programme	Total no. of students appeared	Out standing	Middle First	Lower First	High Second	Middle Second	Pass %
			8.5	7.5 - 8.5	6.5 – 7.5	5.5 – 6.5	4.5– 5.5	
1.	M Sc Microbiology-1 st Year (I Sem.)	30	3.33	56.66	40.00	-	-	100.00
2.	M Sc Microbiology-1 st Year (II Sem.)	30	3.33	63.33	26.66	6.66	-	100.00
3.	M Sc Microbiology-2 nd Year (III Sem)	29	-	24.13	65.51	10.34	-	100.00
4.	M Sc Microbiology-2 nd Year (IV Sem)	29	-	27.58	72.41	-	-	100.00
5.	M.Sc. Biochemistry-1 st Year (I Sem.)	23	-	52.17	47.82	-	-	100.00
6.	M.Sc. Biochemistry-1 st Year (II Sem.)	23	-	73.91	21.73	4.34	-	100.00
7.	M.Sc. Biochemistry- 2 nd Year (III Sem.)	24	-	16.66	45.83	37.50	-	100.00
8.	M.Sc. Biochemistry- 2 nd Year (IV Sem.)	24	-	33.33	54.16	12.50	-	100.00
9.	M.sc. Biotechnology- 1 st Year (I Sem)	26	-	46.15	53.85	-	-	100.00
10.	M.sc. Biotechnology- 1 st Year (II Sem)	26	-	23.07	57.69	15.39	3.85	100.00
11.	M.sc. Biotechnology- 2 nd Year (III Sem)	32	3.12	59.38	34.38	3.12	-	100.00
12.	M.sc. Biotechnology- 2 nd Year (IV Sem)	32	-	53.12	43.75	-	-	93.75
13.	M.Sc. Botany-1 st Year	30	-	56.67	40.00	3.33	-	100.00

	(I Sem.)							
14.	M.Sc. Botany-1 st Year (II Sem.)	30	-	53.33	46.67	-	-	100.00
15.	M.Sc. Botany-2nd Yr (III Sem.)	20	-	85.00	15.00	-	-	100.00
16.	M.Sc. Botany-2nd Yr (IV Sem.)	20	-	60.00	35.00	5.00	-	100.00
17.	M.Sc. Chem-1 st Year (I Sem.)	21	-	33.33	61.90	4.77	-	100.00
18.	M.Sc. Chem-1 st Year (II Sem.)	21	-	42.85	57.15	-	-	100.00
19.	M.Sc. Chem-2nd Yr (III Sem.)	17	-	35.29	52.95	11.76	-	100.00
20.	M.Sc. Chem-2nd Yr (IV Sem.)	17	-	11.76	58.82	2943	-	100.00
21.	M.Sc. Pharma-1 st Yr (I Sem.)	15	-	46.67	46.67	6.66	-	100.00
22.	M.Sc. Pharma-1 st Yr (II Sem.)	13	-	15.39	61.54	23.07	-	100.00
23.	M.Sc. Pharma-2 nd Yr (III Sem.)	25	-	76.00	24.00	-	-	100.00
24.	M.Sc. Pharma-2 nd Yr (IV Sem.)	26	-	73.07	26.93	-	-	100.00
25.	M.Sc. Zoolgy-1 st Year (I Sem.)	30	-	43.33	53.33	3.34	-	100.00
26.	M.Sc. Zoolgy-1 st Year (II Sem.)	30	3.33	76.67	20.00	-	-	100.00
27.	M.Sc. Zoolgy-2 nd Year (III Sem.)	31	-	83.87	16.13	-	-	100.00
28.	M.Sc. Zoolgy-2 nd Year (IV Sem.)	31	-	48.39	45.16	6.45	-	100.00
29.	M.Sc. Forestry- 1 st year (II Sem.)	06	-	33.33	33.33	33.33	-	100.00
30.	M.Sc. Forestry- 2 nd year (III Sem.)	06	-	50.00	50.00	-	-	100.00
CGPA				Class				
8.5 and Above				Outstanding				
7.5. and above but less than 8.5				Middle First				
6.5 and above but less than 7.5				Lower First				
5.5 and above but less than 6.5				High Second				
4.5 and above but less than 5.5				Middle Second				
4.0 and above but less than 4.5				Lower Second				
Less than 4.0				Fail				

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

- Department level monitoring committee submits reports to the college level monitoring committee, remedial measures are taken accordingly.
- Feedback from the students and other stake holders are obtained at regular intervals and later IQAC meets to resolve the problems stated if any.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	---
UGC – Faculty Improvement Programme	---
HRD programmes	50
Orientation programmes	51
Faculty exchange programme	---
Staff training conducted by the university	----
Staff training conducted by other institutions	03
Summer / Winter schools, Workshops, etc.	05
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	103	15	15	0
Technical Staff (including Library/Lab/ Physiotherapy centres)	17	02	02	0

Criterion – III

3. Research, Consultancy and Extension

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

- Having a Research Advisory committee (RAC) which meets periodically to discuss current research trends & issues.
- The above committee also functions as a Research Forum wherein the faculty members also present their research papers followed by discussions.
- By inviting outstanding academicians and scientists for holding interactive sessions with young faculty to motivate them for undertaking active research programme.
- By sharing the information about the upcoming Conferences, Seminars, and Workshops etc. among the staff.
- Motivating the faculty for writing and publishing research related articles. Scheme for incentives in the form of cash award/ advance increment to the faculty for writing books, chapters and research papers in journals of repute.
- On duty leave granted to the faculty for attending professional Seminars, Conferences, and Workshops etc.
- Reimbursement of the registration fee to faculty for attending any of the above.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	--	----	01	01
Outlay in Rs. Lakhs	--	----	26.08 Lakhs	---

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	01	03	---	---
Outlay in Rs. Lakhs	5.75 Lakhs	21.43 Lakhs	----	-----

3.4 Details on research publications

	International	National	Others
Peer Review Journals	24	04	-----
Non-Peer Review Journals	02	06	-----

e-Journals	08	01	----
Conference proceedings	---	01	

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 organizations.

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (in Lakhs)	Received (in Lakhs)
Major projects	24.02.14-23.02.17	DBT	26.02	13.23
Minor Projects 1	23.02.13-22.02.16	USBD	8.30	2.90
Minor Projects 2	01.11.11-31.12.14	USBD	5.83	3.80497
Minor Projects 3	2012-15	USBD	7.30	5.07545
Minor Projects 4	2012-14	USBD	5.75	5.75
Interdisciplinary Projects	2013-14	USBD	1.7	1.7
Industry sponsored	---	----	----	----
Projects sponsored by the University/ College	-----	----	----	----
Students research projects (<i>other than compulsory by the University</i>)	----	---	----	----
Any other(Specify)	-----	-----	----	----
Total	06 projects	02	54.90	32.46042

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	----	05
Sponsoring agencies	----	----	SBD, Uttarakhand	---	Self

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

10

3.13 No. of collaborations

International

National

02

Any other

01

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs:

From funding agency

32.46042

From Management of University/College

3.75 Lakhs

Total

36.21042

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	01
	Granted	---
International	Applied	---
	Granted	----
Commercialized	Applied	----
	Granted	----

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
02	---	02	---	----	---	----

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

04

10

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

Nil

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

JRF

02

SRF

Nil

Project Fellows

02

Any other

Nil

3.21 No. of students Participated in NSS events:

University level State level
 National level International level

3.22 No. of students participated in NCC events: NCC still not introduced in the college.

University level State level
 National level 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 College forum
 NCC NSS Any other

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

- Introduction of the Scholarship scheme for Girl students of the State, named “ *mahamaya Ma balasundari Chatra Vriti yojna*”. The girl students from class I to XII are eligible for the scholarship @ Rs. 200 to 700/= p.m.
- World Biodiversity day celebrations.
- World environment day celebrations.
- World immunology day celebrations.

- World Physiotherapy day celebrations.
- Awareness program on “Promise to save green earth”: Social Awareness Campaign Project of “People & Society” (it is Nepal based Social awareness campaigner organization) - Student’s initiative.
- Awareness program for school children during wildlife week (01-07 October) through Film show, Painting/sketching competition and Inter school Quiz competition
- As NSS activity Students Participation in ASER (Annual status of Education report) survey conducted by Pratham NGO.

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	4.5 acres (16888 sq. mt.)	---	Self financing	4.5 acres (16888 sq. mt.)
Class rooms	44	----		44
Laboratories	29	04		33
Seminar Halls	02	00		02
No. of important equipments purchased (\geq 1-0 lakhs) during the current year.	---	04		---
Value of the equipment purchased during the year (Rs. in Lakhs)	---	2638083.00		---
Others	----	3353662.00		---

4.2 Computerization of administration and library

1. Library is already computerized. Issue & collection through BAR Code system.
2. Office of the Director and Principal completely computerized and data retrieval system operational.
3. Linkage has been created between each department with Principal & Director's officer through internal mail system.
4. Whole campus is Wi-Fi.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	16867	6040968.47	121	28664	16988	6069632.47
Reference Books	769	1528160.58	35	22136	804	1550296
e-Books	80	gratis	--	--	80	---
Journals (2013-14)	32	93844.00	0	0	32	93844.00
e-Journals	01	--	01	2400.00	01	2400.00
Digital Database	01	50000	0	0	01	50000.00
CD & Video	236	9000.00	06	682	242	9682.00
Others (student dissertations)	890	--	56	--	946	---

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	120	01	Yes-WiFi	01	0	Yes	All	---
Added	02	0	---	0	0	0	0	0
Total	109	01	Yes	01	0	yes	All	0

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

E-Governance

4.6 Amount spent on maintenance in lakhs:

i) ICT	72048.00
ii) Campus Infrastructure and facilities	671058.00
iii) Equipments	2670483.0
iv) Others	2610556.0
Total:	6024145.00

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Through internal mails
- Through internal memos
- Through circulars

5.2 Efforts made by the institution for tracking the progression

- Through monthly consultative committee meetings between the management, IQAC coordinator, Principal and the faculty.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
1073	361	07	07

(b) No. of students outside the state

1127

(c) No. of international students

145

Men	No	%	Women	No	%
	851	59.35		583	40.65

Last Year (2012-13)						This Year (2013-14)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
809	39	395	158	01	1412	819	39	404	171	01	1434

Demand ratio **3:2**

Dropout % (2012-13): 0.005% (07 out of 1275 students).

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

Yes supported.
Objective questions and answers were provided to B.Sc. VIII semester students for PG entrance test of ICAR.

No. of students beneficiaries

57

5.5 No. of students qualified in these examinations

NET	03	SET/SLET	---	GATE	03	CAT	---
IAS/IPS etc	---	State PSC	---	UPSC	---	Others	17

5.6 Details of student counseling and career guidance

A separate student counseling centre with a full time counselor is available.
 A separate training and placement cell is established for career guidance.
 07 Classes were conducted for student counseling and career guidance.

Number of students benefitted:

112

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
08 on campus; 25 off campus	112	24	25

5.8 Details of gender sensitization programmes

- Awareness classes were held for the female students on their general health and hygiene.
- Women's day was celebrated in the college where in senior lady faculty discussed the social issues with the girl students.

5.9 Students Activities

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

State/ University level

08

National level

Nil

International level

Nil

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	16	1265100.00
Financial support from government	37	596903.00
Financial support from other sources (DSWC)	840	168000 (Monthly Scholarship)
Financial support from other sources (DSWC)	10	50000 (Special Scholarship)
Financial support from other sources (DSWC)	215	49350 (incentives)
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: Yes-redressed.

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision:

Creation of an educated, ethical and prosperous society by imparting higher education to youth enabling them towards integral human and career development in industrial and human health sector.

Mission:

Academic excellence, healthy standards in extracurricular practices, socially relevant activities, and courses leading to employment and entrepreneurship and continuous progress of the institution.

Objectives:

To develop the intellectual capacity of students to search for truth and knowledge.

- To offer possibilities by which the students discern their purpose in life.
- To help them to achieve their goals by imparting education which is not only theoretical but also practically oriented, to help them to work efficiently out side the class rooms and the laboratories.
- To form social consciousness in them so that they may be capable of fostering good relationship with others, a sense of participation and co-responsibility and become tools of social change with a preferential option for the poor and the weak so as to serve the civil society at large.

6.2 Does the Institution has a management Information System

Yes the institute has MIS system for better coordination. Accountant management, pay role management, fee management, library management, faculty and student's attendance, examination result and admission management system.

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

6.3.1 Curriculum Development

Curriculum Development: The curriculum of the UG & PG courses is prepared by the affiliating university H.N.B. Garhwal Central University, Srinagar. However, Internal BOS takes place to upgrade and review the syllabi and desired changes as per the need of the industry is communicated to the affiliating university for further reform in the concern subject.

6.3.2 Teaching and Learning

1. Use of ICT as effective teaching tools, interactive E-learning, smart class and modern teaching modules.
2. Teachers diary with teaching plans and its follow up. Teaching plan is also submitted to IQAC.
3. Monthly report department wise to IQAC to review and tally the teaching plan as per schedule.
4. Academic calendar for the each academic session is prepared.
5. Study material is provided to students by the subject teachers.
6. Monitoring of academic performance of students through class test, group discussion and assignments etc.
7. Regular visiting/guest faculty for interactive teaching.
8. Exposing students for outdoor learning through educational trips, excursions, camps etc.
9. Motivating students for research activities by organizing workshops/seminars/conferences and participation in such activities.
10. Subject wise external experts are called to review the research proposal of M.Sc. dissertation and suggestions are incorporated accordingly.
11. Students centric teaching. Students are divided into A, B, C category as per academic performance and remedial classes are arranged to upgrade the weak students by subject teacher and class coordinator.

6.3.3 Examination and Evaluation

The internal examination schedule of Annual and Semester courses are proposed by the Examination Cell is included in the college Academic calendar and displayed in the notice board. The examination schedule includes following information:

1. Date of sessional (First, second) for semester system.
2. Date of internal examination (First, second and pre-university examinations)
3. To improve the results, class tests (M.C.Q) are conducted after the completion of topic/unit.
4. After completion of the theory examination, answer papers are assessed, by strictly following the rules and regulations laid down by H.N.B. Garhwal Central University, Srinagar and result is declared in the stipulated time.
5. The result of internal assessment is sent bi-monthly to the parents.

6.3.4 Research and Development

- A separate Research Advisory Committee (RAC) headed by the Director.
- RAC also functions as a Research Forum wherein the faculty members present their research papers followed by discussions.
- Faculty development programmes organized to further motivate and guide to prepare research proposals.
- Incentives are given to the faculty members for publication of research papers in the peer reviewed and Indexed journals.
- Consultancy services to the industry: faculties are encouraged to take up consultancy projects from the industry located in the state.
- Reimbursement of registration fee or participation fee for (Oral/poster) presentation in State/National/International conferences.
- Supporting teachers with study leaves to attend Summer/winter school or trainings to update their subject knowledge.
- Well stocked library, e-library and well equipped laboratory, internet access and infrastructure facilities for conducting research work.

6.3.5 Library, ICT and physical infrastructure / instrumentation

1. Effective use of ICT, increased number of journals and CDs in the library, usage of Internet through high speed connection developing e- content, online seminars, Smart class rooms, Wi-Fi connectivity and internet access to students.
2. Digitized E-central library; bar-coding has been done with the help of LIBCIB an open source library software.
3. Well equipped laboratories with modern equipments like HPLC, Gel doc., PCR, Fermenter, UV Spectrophotometer etc. to carry out contemporary and advance research.

6.3.6 Human Resource Management

- At least four teachers for one course have been maintained throughout the academic year (4:1:1). However, more teachers are entrusted with the responsibility of sharing one paper owing to vast syllabus.
- Teachers are given additional charges for various extra-curricular and co curricular activities.
- Visiting and Guest faculty are engaged from other Institutes/ Universities to teach highly specialised subjects especially in Para-medical courses.
- For quality improvement for faculty and staff workshop/seminar/training programme etc are conducted time to time.
- Personality development class, industry orientation programme, campus interview and off campus interview are conducted.
- Regular interaction with people for industry and academia resulting to good placements.

6.3.7 Faculty and Staff recruitment

- Faculty and staff recruitments are done as per the rules and regulations of the affiliating University.
- However, on need basis Ad-hoc faculty is also recruited at the institutional level.

6.3.8 Industry Interaction / Collaboration

- The institute has MOU with the Drug Manufacturers Association and Association of Industries of Uttarakhand for providing internships to its students in various industries of the State.
- Dept. of Microbiology has collaboration with Centre for Aromatic Plants.
- Advance certification course for grooming the students as per the need of the industry and bridging the gap between industry and academia.
- Paid consultancy provided to the industry of the region as per their requirement.

6.3.9 Admission of Students

- Admission conducted as per the University norms.
- The admission notice is announced in college notice board and advertized through local and national news papers.
- Admission notification is also uploaded in institute website for wide circulation and online registration facility is also co-exists.
- Admissions are taken purely on merit.
- Admission for both UG and PG are done by the Institute

6.4 Welfare schemes for

Teaching	<ul style="list-style-type: none"> a. Counseling b. Medical facility in the campus c. Tea club d. Assistance to avail loan e. Advance payment against the salary as and when required f. Teachers day celebration g. Scholarship for children h. Celebration of festivals in the institute i. Free Transport facility
Non teaching	<ul style="list-style-type: none"> a. Medical health facility in the campus b. Loan facility c. Tea club d. Scholarship for children e. Celebration of festivals in the institute
Students	<ul style="list-style-type: none"> a. Different scholarship scheme for the students b. Financial support to financially weak and students from hilly region of Uttarakhand Computer with internet access free of cost; b. Admission fees in instalments. c. Free medical check up and free ambulance facility 24 hrs in case of emergency. d. Counselling. e. Celebration of festivals and annual function.

6.5 Total corpus fund generated

Nil

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	----	Yes	IQAC
Administrative	NO	-----	Yes	IQAC

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?

N/A

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

N/A

6.11 Activities and support from the Alumni Association

1. Annual meeting of Alumni Association is organized.
2. The alumni of the institute working in diverse fields and having key positions are invited for seminars, lectures and they are honored for outstanding achievements.
3. Our alumni are guiding star and role model for the students. A cordial relation with the industry and other employers is also one of the outcomes of our alumni.

6.12 Activities and support from the Parent – Teacher Association

1. Parent teaching meeting organized on regular intervals to discuss the needs and progress of their wards.
2. Feedback is taken from the parents regarding the services provided by the institute.
3. Official phone numbers of the faculty members are provided to the parents for contacting the faculty regarding the students related information like: attendance, campus discipline, dress code, academic results, facilities available in the campus and Co-curricular and extra-curricular activities, etc.

6.13 Development programmes for support staff

The supporting staff plays an important role in the development of the institution. For the development of support staffs following activities have been introduced:

- Time bound allotted duties.
- Free medical facility in the campus.
- Advance payment in emergency.
- Support for outdoor sports participation.
- Annual social gathering for staff on various occasions.
- Participation in the training programmes like computer, fire fighting, laboratory safety and hazard management and traffic rules.

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

- College is located in the Dehra Dun city naturally crowded with variety of trees and vegetation.
- Sprawling in over 7 acres of pure lush greenery and surrounded by a thick forest cover and captivating natural fauna and flora.
- The peaceful atmosphere and the salubrious climate provide a perfect setting for young minds to absorb knowledge.

Following initiatives have been undertaken to make the campus eco-friendly.

1. Tree plantation activities are carried out every year on various occasions.
2. A small garden with medicinal plants has been developed.
3. Institute maintains zero plastic zone and environment related awareness programme are organized time to time.
4. Botanical names of all the plants within the campus have been displayed along with

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.

- Use of ICT as effective teaching tools, interactive E-learning, smart class and modern teaching modules.
- Teaching plans given to the students in advance to come prepared in class for interactive teaching.
- To motivate students to be regular in the class scholarship in each class is given to most punctual and disciplined students by DSWC on monthly basis.
- Advance certification course for grooming the students as per the need of the industry and bridging the gap between industry and academia.
- Paid consultancy provided to the industry of the region as per their requirement.
- Internal audits are conducted for quality assurance.
- One subject faculty designated as class coordinator. He/she acts as mentor and monitors the academic and over all performance of the students. Class coordinators are given official number to be in contact with the parents.
- Students are grouped into A, B, C category as per academic performance and remedial classes are arranged to upgrade the weak students by subject teacher and class coordinator.
- Birthday wishes are sent to faculty members and staff.
- All major festivals are celebrated in the Institute.
- Daily motivational thoughts written on the white board at reception.
- Display the name of toppers of each batch in notice board.

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

- Bar coding of 17792 books has been done. The library has been fully digitalized. E-Library is available to the students.
- The institute is fully Wi - Fi.
- Active participation of students in inter-collegiate sports activities conducted by the affiliating University, i.e., HNB Garhwal Central University.
- More participation of faculty in conferences/ workshops.
- Publication of Research papers and E-books increased.
- NSS unit of the college strengthened through various activities in the campus.
- Social responsibilities towards underprivileged students carried out efficiently.
- Increased agricultural land for practical purposes in related courses.
- Submission of Research Project to DBT, New Delhi for funding accomplished. Funding released.
- Synopsis for dissertation work of PG students approved by external subject experts.
- PG students cleared GATE and NET.
- Alumni Association registered.

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)
***Provide the details in annexure (annexure need to be numbered as i, ii,iii)**

1. **Students centric approach:** conducive environment for teaching and research. Students are categorized on the basis of their academic performance. Mentor system and weak students are motivated for up gradation through specially arranged **remedial classes**.
2. Advance certification course for PG students grooming the students as per the need of the industry and bridging the gap between industry and academia.

7.4 Contribution to environmental awareness / protection

1. Institute maintains zero plastic zone and environment related awareness programmes are organized time to time.
2. World environment day, Wildlife week, Forestry day and Biodiversity day are celebrated in the Institute by arranging guest lectures and student's presentations, posters, plantation & quiz programme etc.
3. Awareness and disposal of E-waste campaign was organized.
4. Plastic free campus and students participation through environment club under DSWC.
4. Through NSS activities cleaning of adjoining Doonga river and awareness programme in the near by villages.

7.5 Whether environmental audit was conducted?

Yes

No

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

Strength

- Conducive environment for teaching & learning.
- Approval under section 2f of UGC Act.
- The annual result of the Institute is generally higher than Univ. average.
- Management committed for quality education and provides full support for quality enhancement.
- Full fledged placement and training cell.
- Well equipped spacious laboratories having PCR, UV-VIS double beam spectrophotometer, Gel documentation system, Fermenter, HPLC, Fluorescent microscope, Elisa reader, Millipore water purification assembly, Iso-Kinetic, Cooling, centrifuge, - 20^o C Deep fridge, etc.
- Well stocked library and e-library which is upgraded in routine.
- Impressive & eco-friendly campus.
- Wi-Fi facility available to all students.
- Classrooms equipped with audio-visual aids.
- Separate hostel facilities for girls & boys.
- ATM, Cafeteria, PCO & Cyber Café available within the campus.
- OPD with in house doctors, 24 hrs own ambulance facility for students and staff.

Weakness

- Participation of faculty in research activities yet to be up to the potential; lack of quality impact factor publications.
- NCC to be introduced.
- Development of international linkages.
- Failure to attract sports people to take admission on Sports quota. To be strengthened.
- Health insurance scheme for faculty and staff and Provident Fund facility for employees to be further strengthened.

Opportunities

- Offering need based Industry orientation programmes to the students.
- Enrich scientific and research environment.
- Acquiring the status of Research centre.
- In house coaching classes for NET and UGC to be further strengthened.
- Enrolment of more Ph.D students under senior faculty of the Institute.
- Seminars, lectures and hands on training for school students to inculcate interest to take up biological science and applied science for higher education.

Challenges

1. Decline of interest in biological sciences and Biotechnology. Search for better placement opportunities in this field and international linkages.
2. Procure grants from state or national funding agencies for projects in all departments.

8. Plans of institution for next year

- To enhance participation of faculty in research and seeking grants from National and state level funding agencies for major and minor projects.
- To motivate faculty to publish their research findings in Res. Journals with high impact factor.
- Undertaking more activities like Seminars, lectures and hands on training for school students to inculcate interest to take up biological science and applied science for higher education.
- Each year department scoring highest rating for over all academics and discipline will be awarded.
- Provision of zero periods in the time table to be introduced for better monitoring of the students attendance and discipline.
- Further strengthening of ICT facility, library and other teaching aids.
- Up keep of Institute building and infrastructure and beautification of the ground with ornamental plants.
- To prepare E- contents and publish text books.
- NCC to be introduced.

Name : Dr. Shruti Sharma

Name : Dr. Arun Kumar

.....Sd.....

.....Sd.....

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

_____*_*_*_____

Annexure I**Abbreviations:**

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission
