

The Annual Quality Assurance Report (AQAR) of the IQAC (For Universities)

Institutions Accredited by NAAC need to submit an Annual self-reviewed progress report i.e. Annual Quality Assurance Report (AQAR) to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the IQAC at the beginning of the Academic year. *The AQAR period would be the Academic Year. (For example, July 1, 2019 to June 30, 2020)*

Part – A

Data of the Institution

(Data may be captured from IIQA)

1. Name of the Institution

Central University of Haryana

- Name of the Head of the institution :

Prof. R.C. Kuhad

- Designation:

Vice Chancellor

- Does the institution function from own campus:

Yes

- Phone no./Alternate phone no.

9896395151

- Mobile no.

9416132765

- Registered Email

vc@cuh.ac.in

- Alternate Email

diriqac@cuh.ac.in

- Address :

Central University of Haryana

- City/Town :

Mahendergarh

- State/UT :

Haryana

- Pin Code :

123031

2. Institutional status:

- University: State/Central/Deemed/Private:
- Type of Institution: Co-education/Men/Women
- Location : Rural/Semi-urban/Urban:
- Financial Status: Centrally funded/state funded/Private (Please specify)
- Name of the IQAC Co-ordinator/Director:
- Phone no. /Alternate phone no. :
- Mobile:
- IQAC e-mail address:
- Alternate Email address:

3. Website address:

Web-link of the AQAR: (Previous Academic Year):

For ex. <http://www.chanakyauniv.edu.in/AQAR2015-16.doc>

4. Whether Academic Calendar prepared during the year?

Yes/No....., if yes, whether it is uploaded in the Institutional website:

Weblink:

http://www.cuh.ac.in/Academic_Calender.aspx

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1 st	A	3.10	2017	from: 2017 to: 2022

6. Date of Establishment of IQAC: DD/MM/YYYY:

20/08/2015

7. Internal Quality Assurance System

7.1 Quality initiatives by IQAC during the year for promoting quality culture

Item /Title of the quality initiative by IQAC	Date & duration	Number of participants/beneficiaries
Timely Submission of AQAR (2018-19)	27/04/2020, 365 days	35
Periodical Assessment of Academic and Research Activities by the Vice Chancellor	Periodically	All the Schools and Departments
Participation in NIRF— The University focuses on promotion of diversity, inclusivity and outreach which gets reflected through the best NIRF score of 56.18 in “Outreach and Inclusivity” parameter.	Session 2019-20	Entire University
Annual Departmental Presentations	20/08/2019- 2 days	140.

8. Provide the list of Special Status conferred by Central/ State Government-

UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.: **No**

9. Whether composition of IQAC as per latest NAAC guidelines: Yes/No:

Yes

*upload latest notification of formation of IQAC

<http://www.cuh.ac.in/iqac/committee.html>

10. No. of IQAC meetings held during the year:

04

The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website.

Yes

(Please upload, minutes of meetings and action taken report)

11. Whether IQAC received funding from any of the funding agency to support its

Activities during the year?

No

12. Significant contributions made by IQAC during the current year (maximum five bullets)

- Institutionalising Annual Best Researcher Award and the Award for the Best Performing Non-Teaching Official .
- Annual Departmental presentation
- Initiatives towards Resource Sharing among the Higher Education Institutes, and creation of Resource Sharing Portal on University Website.
- Annual Academic Audit

13. Plan of action chalked out by the IQAC in the beginning of the Academic year toward Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements/Outcomes
• Filling up of all the vacant positions on receiving appropriate directions from UGC/MHRD.	74
• Well –furnished digitized Library System	Achieved
• Central Instrumentation Facility • Central Computation facility	The University has expedited the process
• Implementation of Integrated University management System	Partially Implemented
• Optimum Utilization of Virtual Classrooms for Digitization of Pedagogical aspects including E-content development and delivery	The Faculty of the University developed e-contents and 73 video-lectures using 5 Virtual Classrooms
• Participation in FDPs, Orientation programme, Refresher Course, Short Term Course	124

14. Whether the AQAR was placed before statutory body? Yes /No:

Yes

Name of the statutory body:

Executive Council

Date of meeting(s):

27/11/2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to

Assess the functioning?

No

16. Whether institutional data submitted to AISHE: Yes/No:

Yes

Year:

2019-20

Date of Submission:

29 July, 2020

17. Does the Institution have Management Information System?

Yes/No

Partial

If yes, give a brief description and a list of modules currently operational.

The University has implemented micro MIS for Recruitment, Examination, Library, and Financial Management, for carrying out day to day official communications.

Part-B

CRITERION I – CURRICULAR ASPECTS			
1.1 Curriculum Design and Development			
1.1.1 Programmes for which syllabus revision was carried out during the Academic year			
Name of programme	Programme Code	Dates of revision	
B.Ed.	55	18/02/2019	
M.Ed.	56	18/02/2019	
M.Sc. Mathematics	32	18/02/2019	
Ph.D. Mathematics	61	18/02/2019	
Ph.D. Physics	31	18/02/2019	
B.Tech Electrical Engineering	50	18/02/2019	
B.Tech Civil Engineering	48	18/02/2019	
B.Tech Computer Science Engineering	49	18/02/2019	
B.Tech Printing and Packaging Technology	51	18/02/2019	
M.Sc. Nutrition Biology	38	26/06/2019	
M.Sc. Microbiology	34	26/06/2019	
M.Sc. Biotechnology	40	26/06/2019	
M.Sc. Biochemistry	36	26/06/2019	
M.A. Sanskrit	64	26/06/2019	
M.Sc. Yoga	63	26/06/2019	
Ph.D. Education	06	26/06/2019	
Ph.D. Biochemistry	37	14/01/2020	
Ph.D. Physics	31	14/01/2020	
M.Sc. Physics	30	14/01/2020	
MTTM	62	14/01/2020	
B.Tech. Civil Engineering	48	14/01/2020	
B.Ed.	55	14/01/2020	
M.Ed.	56	14/01/2020	
1.1.2 Programmes/ courses focused on employability/ entrepreneurship/ skill development during the Academic year			
Programme with Code	Date of Introduction	Course with Code	Date of Introduction
B.Voc. Industrial Waste Management, 45	Academic Session 2016-17	i. English Communication (IWM-103)	2018-19

		ii. Skill Component (Specific job roles defined by Sector Skill Councils as per guidelines of NSQF with 18 credits in each semester)	
B.Voc Biomedical Sciences, 46	Academic Session 2016-17	i. English Communication (BMS-103) ii. Skill Component (Specific job roles defined by Sector Skill Councils as per guidelines of NSQF with 18 credits in each semester)	2018-19
B.Voc. Retail and Logistics Management, 44	Academic Session 2016-17	i. a) Courses on Business Communication in three semesters. b. Principles of Marketing (RLM-302) c. Courses on Retail Management in two Semesters d. Advertising and Sales Promotion (RLM-501) e. Human Resource Management (RLM-404) f. Soft Skills and Personality Development (RLM-504) ii. Skill Component (Specific job roles defined by Sector Skill Councils as per guidelines of NSQF with 18 credits in each semester)	2018-19
M.B.A., 19	Academic Session 2010-11	i. Personality Development And Communication Skills (SLM MGT 01 105 C 3104) ii. Business Communication (SLM MGT 01 101 GEC 3104) iii. Summer Training Report (SLM MGT 01301 C 0202) iv. Performance and Talent Management (SLM MGT 01307 DCEC 2002) v. Training and Development (SLM MGT 01308 C 3104) vi. Entrepreneurship Development (SLM MGT	2018-19

		01402 C 2002) vii. Interpersonal Skills (SLM MGT 01 401 GEC0244)	
B.Tech. Computer Science Engineering, 49	Academic Session 2016-17	i. English Language Skill (BT HUM 101A) ii. English Language Lab (BT HUM 107 A) iii. Internship (BT CSE 508) iv. Summer training (BT CSE 707) v. Internship/ Project (BT CE 801) vi. Three General Elective Course (GEC) on skill development	2019-20
B.Tech. Electrical Engineering, 50	Academic Session 2016-17	i. English Language Skill (BT HUM 101A) ii. English Language Lab (BT HUM 107 A) iii. Environment Studies (BT AUD 308A) iv. Indian Constitution (BT AUD 409A) v. Economics for Engineers (BT EE 506A) vi. Applications of Psychology in Engineers Life (BT EE 606A) vii. Internship (BT EE 507A) viii. Industrial Summer Training (BT EE 705) ix. Internship/ Project (BT EE 801) x. Three General Elective Course (GEC) on skill development	2019-20
B.Tech. Printing and Packaging Technology, 51	Academic Session 2016-17	i. English Language Skill (BT HUM 101A) ii. English Language Lab (BT HUM 107 A) iii. Economics for Engineers (BT ECO 507A) iv. Internship (BT PPT 508A) v. Human Resource Management (BT PPT 5111A) vi. Industrial Training (BT PPT 705)	2019-20

		vii. Internship/ Project (BT PPT 801) viii. Three General Elective Course (GEC) on skill development	
B.Tech. Civil Engineering, 48	Academic Session 2016-17	i. English Language Skill (BT HUM 101A) ii. English Language Lab (BT HUM 107 A) iii. Summer Internship (BT CE 509A) iv. Financial and Business Management (BT CE 624A) v. Internship/ Project (BT CE 801) vi. Three General Elective Course (GEC) on skill development	2019-20
LL.M, 24	Academic Session 2010-11	i. Intellectual Property Rights (SLM LAW 01 102 E 4105) ii. Law relating to Cyber Crimes (SLM LAW 01 202 E 4105) iii. Mass Media and Constitutional Democracy (SLM LAW 01 302 E 4105) iv. Human Rights: Constitution of India (SLM LAW 01 401 E 4105) v. International Environmental Law & Sustainable Development (SLM LAW 01 403 E 4105)	2016-17
M.C.A, 22	Academic Session 2013-14	i. Web Designing (SCSI CS 01 01 03 C 4004) ii. Programming in JAVA (SCSI CS 01 04 21 C 4004) iii. Android Application Development (SCSI CS 01 05 26 C 4004) iv. Linux and shell programming (SCSI CS 01 01 03 E 3003) v. Project Work (SCSI CS 01 06 01 SEEC 0066)	2017-18
1.2 Academic Flexibility			

1.2.1 New programmes/courses introduced during the Academic year					
Programme/Course			Date of introduction		
MTTM (Master of Tourism and Travel Management)			Academic Session 2019-20		
MA Sanskrit			Academic Session 2019-20		
M.Sc. Yoga			Academic Session 2019-20		
Ph.D. Mathematics			Academic Session 2019-20		
Ph.D. Physics			Academic Session 2019-20		
Ph.D. Biochemistry			Academic Session 2019-20		
1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.					
The CBCS was adopted by the University from the session 2015-16 in16 th meeting of the Academic Council held on - 20-05-2015. In the session 2019-20, the University implemented CBCS in the following new programmes also:					
Name of Programmes adopting CBCS	UG	PG	Date of implementation of CBCS / Elective Course System	UG	PG
MTTM (Master of Tourism and Travel Management)	-	PG	Academic Session 2019-20	-	01/07/2019
MA Sanskrit	-	PG	Academic Session 2019-20	-	01/07/2019
M.Sc. Yoga	-	PG	Academic Session 2019-20	-	01/07/2019
1.3 Curriculum Enrichment					
1.3.1 Value-added courses imparting transferable and life skills offered during the year					
Value added courses			Date of introduction	Number of students enrolled	
B.Ed. (Value and Peace Education)			Academic Session 2017-18	120	
B.Ed. (ICT in education)			Academic Session 2017-18	120	
B.Ed. (Value Based Education)			Academic Session 2017-18	105	
B.Ed. (Understanding the self)			Academic Session 2017-18	90	
B.Ed. (Guidance and Counseling)			Academic Session 2017-18	64	
B.Voc. Retail and Logistic Management			Academic Session 2016-17	57	
B.Voc. Industrial Waste Management			Academic Session 2016-17	48	
B.Voc. Biomedical Science			Academic Session 2016-17	45	
M.Sc. Nutrition Biology (Work Physiology, Physical Fitness & Health)			Academic Session 2019-20	43	
M.Sc. Environmental Science (Environmental Pollution and Control)			Academic Session 2015	24	

B.Ed. (Life Skill Education)	Academic Session 2017-18	22		
MHMC&T (Communication Skill and Personality Development- DCEC)	Academic Session 2017-18	21		
Psychology (Personality)	Academic Session 2017-18	16		
M.Sc. Yoga	Academic Session 2019-20	15		
Psychology (Motivation and Emotion)	Academic Session 2019-20	15		
M.Ed.(Guidance and Counseling)	Academic Session 2017-18	09		
MA Education (Life Skill)	Academic Session 2017-18	08		
M.Ed. (ICT in education)	Academic Session 2017-18	06		
MTTM (Master of Tourism and Travel Management)	Academic Session 2019-20	6		
1.3.2 Field Projects / Internships under taken during the year				
Project/Programme Title	No. of students enrolled for Field Projects / Internships			
B.Ed.	90			
B.Voc. Bio Medical Sciences	87			
B Tech. Civil Engineering	60			
B.Voc. Industrial Waste Management	55			
B.Voc. Retail and Logistics Management	52			
B.Tech. Electrical Engineering	40			
B.Tech. Computer Science & Engineering	35			
Master of Hotel Management & Catering Technology	32			
MBA	26			
MA History and Archaeology	21			
MA JMC	13			
M.Ed.	09			
B.Tech. Printing and Packaging Technology	5			
Ph.D. History and Archaeology	05			
1.4 Feedback System				
1.4.1 Whether structured feedback received from all the stakeholders.				
1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents
Yes	No	No	Yes	Yes
1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution?				
Feedback is evaluated at the level of respective departments of study.				

CRITERION II -TEACHING-LEARNING AND EVALUATION			
2.1 Student Enrolment and Profile			
2.1. 1 Demand Ratio during the year			
Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
B.Voc. Retail and Logistic Management	63	971	58
B.Voc. Biomedical Sciences	63	2555	45
B.Voc. Industrial Waste Management	63	1542	48
B. Tech. Computer Science and Engineering	75	5376	71
B. Tech. Electrical Engineering	75	4444	54
B. Tech. Civil Engineering	75	4333	43
B. Tech. Printing and Packaging Technology	74	926	5
M. A. Economics	50	656	35
B. Ed.	125	1531	125
M.Ed.	63	409	10
M.A. History and Archaeology	37	382	21
M. A. Political Science	50	602	38
M. A. Psychology	50	574	37
M. A. Sociology	37	253	24
M.Sc. Chemistry	50	3501	52
Master of Computer Applications	50	604	39
M.Lib. & Info. Sc.	25	161	21
M.Sc. Environmental Sciences	38	1569	33
M.Sc. Geography	50	691	46
Master of Journalism and Mass Communication (MA-JMC)	25	458	16
M. A. English	50	710	37
M. A. Hindi	38	185	14
M.Com.	50	531	47
LL.M Law	31	304	11
MBA	50	973	45
M.Sc. Mathematics	50	2820	47
M.Sc. Physics	50	3319	50
M.Sc. Statistics	38	551	24
M.Sc. Microbiology	31	3097	31
M.Sc. Biochemistry	31	2829	29
M.Sc. Nutrition Biology	31	1127	27
M.Sc. Biotechnology	31	3518	29
M.H.M.C.T.	38	317	22
M.T.T.M.	15	449	6
M.Sc. Yoga	15	95	15
M.A. Sanskrit	15	24	8
M.Phil. Economics	2	295	1
M.Phil. Education	6	313	5
M.Phil. English	10	599	10

M.Phil. Hindi	3	373	2
M.Phil. History & Archaeology	3	214	1
M.Phil. Political Science	3	288	3
M.Phil. Sociology	2	145	2
Ph.D. Biotechnology	2	777	1
Ph.D. Chemistry	13	519	12
Ph.D. Economics	2	293	2
Ph.D. Education	7	307	6
Ph.D. English	8	619	6
Ph.D. Hindi	3	405	3
Ph.D. History	2	53	2
Ph.D. Law	7	164	3
Ph.D. Management Studies	6	313	5
Ph.D. Microbiology	9	748	6
Ph.D. Nutrition Biology	3	237	3
Ph.D. Political Science	2	249	2
Ph.D. Statistics	4	144	3
Ph.D. Sociology	5	151	4
Ph.D. Biochemistry	14	705	4
Ph.D. Physics	6	560	5
Ph.D. Mathematics	5	744	5

2.2 Catering to Student Diversity

2.2.1. Student – Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of full time teachers available in the institution teaching only UG courses	Number of full time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019-20	855	1561	30+10(C)	114+28(C)+3(D)+2(AC)	187

D= Deputation; C= Contract faculty; AC= Academic consultant

2.3 Teaching - Learning Process

2.3.1 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of teachers on roll	Number of teachers using ICT (LMS, e-Resources)	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
187	187	15 Databases • Google meet • CISCO Webex • Video Conferencing facilities • Webcams	Five Virtual Classroom	05	Bibliographic databases; Full-text databases; Software; LMS; Teaching with assistance of

		• Interactive Boards			projectors; Online lectures, Google classroom and Google meet, SWAYAM/N PTEL platform etc.
2.3.2 Students mentoring system available in the institution? Give details. (maximum 500 words)					
Number of students enrolled in the institution			Number of fulltime teachers	Mentor: Mentee Ratio	
2607			144+3D+38 C+2 AC =187	1:14	

D= Deputation; C= Contract faculty; AC= Academic consultant

2.4 Teacher Profile and Quality				
2.4.1 Number of full time teachers appointed during the year				
No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
266	144	122	74	126
2.4.2 Honours and recognitions received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)				
Year of award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies	
2019	Prof. RC Kuhad	Vice Chancellor	Fellow of Academy of Microbiological Science (FAMSc) by Association of Microbiologists of India (2019)	
2019	Prof. RC Kuhad	Vice Chancellor	Life Time Achievement Award by Association of Microbiologists of India (2019)	

2019	Prof. Neelam Sangwan, Biochemistry	Professor	Appreciation Certificate conferred by University of Lagos
2020	Prof. Neelam Sangwan, Biochemistry	Professor	Appointed a Member, BRL Environment Clearance Committee, Govt. of India, DBT, Ministry of S& T
2020	Prof. Neelam Sangwan, Biochemistry	Professor	Appointed a Member, Scientific Expert Committee, Asian India R &D for Agriculture & Food Science Technology, DST, Ministry of S & T
2019	Prof. Neelam Sangwan, Biochemistry	Professor	Appointed a member, Review committee of Genetic Manipulation, DBT, Ministry of S& T
2020	Prof. Neelam Sangwan, Biochemistry	Professor	Appointed a member of Reviewer Board, Singapore Food Agency, Agency for Science & Technology & Research
2019	Prof. Neelam Sangwan, Biochemistry	Professor	Appointed a member, CSIR National Committee on Plant Science, CSIR, Ministry of S&T
2020	Prof. Neelam Sangwan, Biochemistry	Professor	Member, DST, Scientific Expert Committee, Asian-India R&D (Agriculture & Food Science & Technology)
2020	Prof. Neelam Sangwan, Biochemistry	Professor	Member, Biosafety Research Levels (BRL) trials for environmental clearance (2020)
2019	Prof. Neelam Sangwan, Biochemistry	Professor	Member, Review Committee on Genetic Manipulation (RCGM), Department of Biotechnology, Government of India (2019)
2019	Dr. Saurabh Chandra Saxena, Biochemistry	Assistant Professor	Member Society of Biological Chemist (SBC), India
2020	Prof. Neelam Sangwan, Biochemistry	Professor	Scientific Evaluation, Singapore Food Agency, Agency for Science, & Technology & Research
2020	Dr. Namrata Dhaka, Biotechnology	Assistant Professor	Organization for Women in Science for the Developing World (a programme unit of UNESCO)

2020	Prof. Satish, Biotechnology	Professor	Member, Editorial Board, Journal of Dairy Research (Cambridge Press)
2019	Dr. Gunjan Goel, Microbiology	Associate Professor	Mentor, Mr. Rusli Fridyanto, Visiting Scientist from Indonesian Institute of Sciences, Indonesia, 1st July, 2019-30th Nov, 2019
2019	Dr. Surender Singh, Microbiology	Associate Professor	Member, Editorial Board, Electronic Journal of Biotechnology (Impact Factor 2.89)
2019-20	Dr. Jitendra K Saini, Microbiology	Assistant Professor	Fellowship, Bioenergy Awards for Cutting Edge Research (B-ACER-2019)", The Indo-US Science & Technology Forum (IUSSTF) DBT, New Delhi
2020	Dr. Jitendra Saini, Microbiology	Assistant Professor	Member, Editorial Board, Frontiers in Energy Research (Impact Factor 2.746)
2020	Dr. Jitendra Saini, Microbiology	Assistant Professor	Member, Editorial Board, Frontiers in Bioengineering and Biotechnology (IF = 3.644)
2019	Hemansi, Ph.D. Scholar	Ph.D. Scholar	Best Oral Paper Presentation in AMI-2019 International conference held at CUH, Mahendergarh
2019	Prof. Dinesh Kumar Gupta, Library and Information Science	Professor	Member, Editorial Board, - Annals of Library and Information Science (CSIR-NISCAIR) - Library Management (Emerald, UK) - Journal of Indian Library Association
2020	Dr. Pinki Arora, English Communication under School of Engineering and Technology	Assistant Professor	National e-quiz on English Literature (Certificate of Appreciation- 95% Score) by St. Jude's College Thoothoor, TamilNadu
2019	Dr. Rajesh Kumar Gupta, Mathematics	Associate Professor	Best Researcher Award by Central University of Haryana for his outstanding Research Contribution in Sciences (2019-2020).
2019	Dr. Jaswant Kumar, Physics	Assistant Professor	IUCAA Associate, Effective from August 1, 2019, National

2020	Dr. Vikas Garg, Civil Engineering	Associate Professor	Executive Council Member, Indian Society for Hydraulics, Pune, 2019 -21
2019	Dr. Vikas Garg, Civil Engineering	Associate Professor	Editorial Manager for Transportation Research Part D, Journal of Elsevier
2019	Dr. Vikas Garg, Civil Engineering	Associate Professor	Fellow membership, Institution of Engineer(India)
2019	Dr. Pinki Arora, School of Engineering and Technology, English	Assistant Professor	International, John Keuhl Travel Grant Fellowship Award, F Scott Fitzgerald Society, United States
2020	Dr. Ajay Bansal, Electrical Engineering	Associate Professor	Fellow , Institute of Engineers (India),
2019	Prof. Sarika Sharma, School of Education	Professor	Member for Preparing Education Technical Terminology (English-Hindi) at Commission for Scientific & Technical Terminology, MHRD, Government of India.
2019	Dr. Renu yadav, Education	Assistant Professor	Member, Board of Management of Centre for Women's Studies, Dibrugarh University
2019	Dr. Vinod Kumar, Chemistry	Associate Professor	Vidyarthi Vigyan Manthan (VVM), State Coordinator

2.5 Evaluation Process and Reforms				
2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results during the year				
Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
B.Voc. Retail and Logistic Management	044	2019-20	10/12/2019	31/12/2019
B.Voc. Biomedical Sciences	045	2019-20	12/12/2019	31/12/2019
B.Voc. Industrial Waste Management	046	2019-20	12/12/2019	31/12/2019
B.Tech. Computer Science and Engineering	049	2019-20	14/12/2019	01/01/2020
B.Tech. Electrical Engineering	050	2019-20	14/12/2019	01/01/2020
B.Tech. Civil Engineering	048	2019-20	14/12/2019	01/01/2020
B.Tech. Printing and Packaging	051	2019-20	14/12/2019	31/12/2019

Technology				
MA Economics	001	2019-20	14/12/2019	01/01/2020
MA Education	004	2019-20	10/12/2019	31/12/2019
B. Ed.	055	2019-20	14/12/2019	03/01/2020
M.Ed.	056	2019-20	03/01/2020	03/02/2020
MA History and Archaeology	016	2019-20	10/12/2019	01/01/2020
MA Political Science	013	2019-20	14/12/2019	03/01/2020
MA Psychology	017	2019-20	10/12/2019	03/01/2020
MA Sociology	018	2019-20	14/12/2019	31/12/2019
M.Sc. Chemistry	028	2019-20	12/12/2019	07/01/2020
MCA	022	2019-20	13/12/2019	07/01/2020
M.Lib. & Info.Sc.	025	2019-20	11/12/2019	31/12/2019
M.Sc. Environmental Sciences	026	2019-20	11/12/2019	03/01/2020
M.Sc. Geography	027	2019-20	14/12/2019	31/12/2019
MA JMC	023	2019-20	14/12/2019	01/01/2020
MA English	007	2019-20	14/12/2019	31/12/2019
MA Hindi	010	2019-20	14/12/2019	31/12/2019
M.Com.	021	2019-20	11/12/2019	23/01/2020
LLM	024	2019-20	11-12-2019	03/01/2020
MBA	019	2019-20	14/12/2019	01/01/2020
M.Sc. Mathematics	032	2019-20	14/12/2019	31/12/2019
M.Sc. Physics	030	2019-20	10-12-2019	31/12/2019
M.Sc. Statistics	033	2019-20	13/12/2019	31/12/2019
M.Sc. Microbiology	034	2019-20	11/12/2019	15/01/2020
M.Sc. Biochemistry	036	2019-20	11/12/2019	07/01/2020
M.Sc. Nutrition Biology	038	2019-20	11/12/2019	03/01/2020
M.Sc. Biotechnology	040	2019-20	11/12/2019	15/01/2020

M.H.M.C.T.	042	2019-20	12/12/2019	03/01/2020
M.Sc. Yoga	063	2019-20	09/12/2019	01/01/2020
MA Sanskrit	064	2019-20	11/12/2019	01/01/2020
M.T.T.M	062	2019-20	11/12/2019	01/01/2020
M.Phil. Economics	002	2019-20	05/02/2020	05/03/2020
M.Phil. Education	005	2019-20	05/02/2020	05/03/2020
M.Phil. English	008	2019-20	05/02/2020	11/03/2020
M.Phil. Hindi	011	2019-20	05/02/2020	05/03/2020
M.Phil. Political Science	014	2019-20	05/02/2020	05/03/2020
M.Phil. Sociology	059	2019-20	05/02/2020	05/03/2020
Ph.D. Biotechnology	041	2019-20	05/02/2020	05/03/2020
Ph.D. Chemistry	029	2019-20	05/02/2020	05/03/2020
Ph.D. Economics	003	2019-20	05/02/2020	05/03/2020
Ph.D. Education	006	2019-20	05/02/2020	05/03/2020
Ph.D. English	009	2019-20	05/02/2020	11/03/2020
Ph.D. Law	053	2019-20	05/02/2020	17/03/2020
Ph.D. Sociology	060	2019-20	05/02/2020	05/03/2020
Ph.D. Biochemistry	037	2019-20	05/02/2020	05/03/2020
Ph.D. Microbiology	035	2019-20	05/02/2020	05/03/2020
Ph.D. Nutrition Biology	039	2019-20	05/02/2020-15/10/2020	05/03/2020
Ph.D. Physics	031	2019-20	05/02/2020	05/03/2020
Ph.D. Hindi	012	2019-20	05/02/2020	05/03/2020
Ph.D. Mathematics	061	2019-20	05/02/2020	05/03/2020
Ph.D. Statistics	054	2019-20	05/02/2020	05/03/2020
Ph.D. Management	020	2019-20	05/02/2020	16/03/2020

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

*Do not include re-evaluation/ re-totalling				
Number of complaints or grievances about evaluation		Total number of students appeared in the examination	Percentage	
0		2422	-	
2.6 Student Performance and Learning Outcomes				
2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)				
http://www.cuh.ac.in/StudentCorner.aspx				
2.6.2 Pass percentage of students				
Program me Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final Semester /year examination	Pass Percentage
044	B.Voc. Retail and Logistic Management	30	25	83.33
045	B.Voc. Biomedical Sciences	21	18	85.71
046	B.Voc. Industrial Waste Management	10	8	80.00
049	B.Tech. Computer Science and Engineering	33	33	100.00
050	B.Tech. Electrical Engineering	39	38	97.43
048	B.Tech. Civil Engineering	42	29	69.04
051	B.Tech. Printing and Packaging Technology	4	4	100.00
001	MA Economics	22	17	77.27
004	MA Education	4	4	100.00
055	B. Ed.	90	89	98.89
056	M.Ed.	9	9	100.00
016	MA History and Archaeology	8	5	62.50
013	MA Political Science	15	14	93.33
017	MA Psychology	23	22	95.65
018	MA Sociology	14	13	92.86
028	M.Sc. Chemistry	39	39	100.00

022	MCA	27	26	96.30
025	M.Lib. & Info.Sc.	7	7	100.00
026	M.Sc. Environmental Sciences	11	10	90.91
027	M.Sc. Geography	23	22	95.65
023	MA JMC	11	8	72.73
007	MA English	25	24	96.00
010	MA Hindi	12	12	100.00
021	M.Com.	29	29	100.00
024	LLM	10	8	80.00
019	MBA	26	25	96.15
032	M.Sc. Mathematics	30	26	86.67
030	M.Sc. Physics	29	26	89.66
033	M.Sc. Statistics	12	10	83.33
034	M.Sc. Microbiology	21	18	85.71
036	M.Sc. Biochemistry	12	12	100.00
038	M.Sc. Nutrition Biology	19	17	89.47
040	M.Sc. Biotechnology	24	23	95.83
042	M.H.M.C.T.	16	16	100.00
063	M.Phil. Economics	1	1	Course work completed
064	M.Phil. Education	5	5	Course work completed
062	M.Phil. English	9	9	Course work completed
002	M.Phil. Hindi	2	2	Course work completed
005	M.Phil. Political Science	2	2	Course work completed
008	M.Phil. Sociology	2	2	Course work

				completed
2.7 Student Satisfaction Survey				
2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)				
http://www.cuh.ac.in/iqac/download.html				

CRITERION III – RESEARCH, I NNOVATIONS AND EXTENSION				
3.1 Promotion of Research and Facilities				
3.1.1 Teachers awarded National/International fellowship for advanced studies/ research during the year				
	Name of the teacher awarded the fellowship	Name of the Award	Date of Award	Awarding Agency
National	Dr. Jaswant Kumar	IUCAA Associate, w.e.f. from 01/08/2019	01/08/2019	IUCAA (UGC), Pune
National	Dr. Jitendra Kumar Saini	6-month fellowship for Cutting Edge Research (B-ACER) Programme 2019 to Ph.D scholar, Ms.Hemansi, 10/01/2020 to 08/06/2020	10/01/2020 to 08/06/2020	The Indo-US Science & Technology Forum (IUSSTF)-DBT, New Delhi
International	Dr. Gunjan Goel	Mentor, Mr. Rusli Fridyanto, Visiting Scientist from Indonesian Institute of Sciences, Indonesia	01/07/2019 to 30/11/2019	DST-AISTDF
International	Dr. Pinki Arora	John Keuhl Travel Grant Fellowship Award	01/07/2019	F Scott Fitzgerald Society, United States
3.1.2 Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year				
Name of Research fellowship		Duration of fellowship		Funding agency
Annu Kumari		Five Years		UGC-JRF
Sanjana Antil		Five Years		UGC-JRF
Saraswati Jaiswal		Five Years		UGC-JRF
Ajay Kumar Yadav		Five Years		UGC-JRF
Raj Kumar		Five Years		UGC-JRF
Maneesh Kumar		Five Years		UGC-JRF
Nisha		Five Years		UGC-JRF
Hemansi		Five Years		UGC-JRF
Ankush		Five Years		UGC-JRF
Laltoo Kumar		Five Years		UGC-JRF
Pritilata		Five Years		UGC-JRF
Poonam Kumari		Five Years		UGC-JRF
Rahul		Five Years		UGC-JRF
Sarita		Five Years		UGC-JRF
Sharol Sebastian		Five Years		UGC-JRF
Archana		Five Years		UGC-JRF
Narendra		Five Years		UGC-JRF
Mayank Kumar Mishra		Five Years		UGC-JRF
Amita Pathania		Five Years		UGC-JRF
Richali Jain		Five Years		UGC-JRF

Manish Kumar	Five Years	UGC-JRF
Pawan Kumar	Five Years	UGC-JRF
Nisha Yadav	Five Years	UGC-JRF
Niharika Sharma	Five Years	UGC-JRF
Rajesh Kumar Patra	Five Years	UGC-JRF
Shalini Verma	Five Years	UGC-JRF
Prakash Yadav	Five Years	UGC-JRF
Fredrick Kerketta	Five Years	UGC-JRF
Priyanka Yadav	Five Years	UGC-JRF
Sudhakar Chaubey	Five Years	UGC-JRF
Vaishnavi Joshi	Five Years	UGC-JRF
Shivani Yadav	Five Years	UGC-JRF
Tanya Shaw	Five Years	UGC-JRF
Sudhir	Five Years	UGC-JRF
Kuldeep Singh	Five Years	UGC-JRF
Bhim Singh Gurjar	Five Years	UGC-JRF
Vivek Sain	Five Years	UGC-JRF
Aibhi Biswas	Five Years	UGC-JRF
Ajay Pal Singh	Five Years	UGC-JRF
Krishan Kumar	Five Years	UGC-JRF
Nisha	Five Years	UGC-JRF
Nirmal Panwar	Five Years	UGC-JRF
Rajan Tiwari	Five Years	UGC-JRF
Anjali Singh	Five Years	UGC-JRF
Anand	Five Years	UGC-JRF
Monika	Five Years	UGC-JRF
Khushboo	Five Years	UGC-JRF
Manju Bala	Five Years	UGC-JRF
Pratibha Mishra	Five Years	UGC-JRF
Aman	Five Years	UGC-JRF
Ritu Rani	Five Years	UGC-JRF
Ashish Chopra	Five Years	UGC-JRF
Manoj Kumar	Five Years	UGC-JRF
Prabhakar Kumar	Five Years	UGC-JRF
Akshay Kumar	Five Years	CSIR-JRF
Somu Yadav	Five Years	CSIR-JRF
Manisha Sharma	Five Years	CSIR-JRF
Karuna Yadav	Five Years	CSIR-JRF
Indu	Five Years	CSIR-JRF
Anil Kumar	Five Years	CSIR-JRF
Deepak Yadav	Five Years	CSIR-JRF
Oval Yadav	Five Years	CSIR-JRF
Eqvinshi	Five Years	CSIR-JRF
Monika	Five Years	CSIR-JRF
Preety Yadav	Five Years	CSIR-JRF

Pragati Yadav	Five Years	CSIR-JRF
Rajni	Five Years	CSIR-JRF
Manjeet	Five Years	CSIR-JRF
Sachin	Five Years	CSIR-JRF
Vikash Yadav	Five Years	CSIR-JRF
Alok Kumar	Five Years	RGNF-SC (UGC)
Jyoti Yadav	Five Years	NF OBC (UGC)
Sujata Negi	Five Years	NFST (UGC)
Shine Raju Kappil	Five Years	MANF (UGC)
Bhawna Mishra	Three Years	Kothari Fellowship (UGC)
Upma Rai	Three Years	DSRPDFHS (UGC)
Anash Kumar Das	Five Years	National Fellowship for Persons with Disabilities

3.2 Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding Agency	Total grant Sanctioned (Rs. In Lakhs)	Amount received during the Year (Rs. In Lakhs)
Major projects				
Dr Jitendra Kumar Saini	3 Years	DBT	32.1	17.84
Dr Savita Budhwar	2 Years	DST	22	13.54
Dr Puja Yadav	3 Years	SERB DST	40	10.61
Dr Jitendra Kumar Saini	3 Years	SERB DST	50.60	8.85
Dr Tejpal Dhewa	3 Years	SERB DST	42.12	8.0
Dr Namrata Dhaka	5 Years	DST	35	07 (Transferred to Central University of Haryana in April 2020)
Dr Rajeev Menon	3 years	SERB	43.12	6.0
Dr Prakash Kanoo	3 Years	SERB	39.99	5.0
Dr Savita Budhwar	3 Years	SERB	38.41	5.0
Dr Ajeet Kumar Sahoo	2 Years	ICSSR	8.0	3.2
Dr Azaj Ansari	3 Years	SERB	40.89	3.0
Dr Kashyap Kumar Dubey	3 Years	DST	2.77	1.55
Dr. T. Longkoi Khiamniungan	2 Years	ICSSR	12.9	0
Dr Namrata Dhaka	3 Years	SERB	44	0 (Transferred to Central University of Haryana)
Prof Satish Kumar	5 Years	DST	40	0
Dr Usha Nagarajan	3 Years	SERB	52	0
Dr Bijender Singh	2020-2025	DST	40	0
Minor Projects				
Dr Dinesh Chahal	6 Months	PMMMNMST	1.25	0
Interdisciplinary Projects	-	-	-	-

Industry sponsored Projects				
Dr Gunjan Goel	3 Years	Pronat S.C., Spain	37	12.70
Prof Deepak Pant	2 Years	Starwire India Vidyut Pvt. Ltd, Mahendragarh	4.5	3.0
Projects sponsored by the University	-	-	-	-
Students Research Projects (other than compulsory by the University)				
Ms. Hemansi (Ph.D Scholar, Department of Microbiology)	6-months	The Indo-US Science & Technology Forum (IUSSTF)- DBT, New Delhi	11.71	9.94
Mr. Deepak Yadav (Ph.D scholar, Department of Chemistry)	6-months, Indo-German joint research collaboration project at Freie Universität, Berlin	Federal Ministry of Education and Research (BMBF) Germany	12.75	12.75
International Projects				
Dr Kashyap Kumar Dubey	2 Years	BIRAC-DBT	41.6	8.0
Dr Gunjan Goel	3 Years	Pronat S.C., Spain	37	12.70
Dr Gunjan Goel	6-months	DST-AISTDF	2.83	2.83
Any other(Specify)	-	-	-	-
Total			695.54	151.51
3.3 Innovation Ecosystem				
3.3.1 Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year				
Title of Workshop/Seminar	Name of the Department		Date(s)	
"DCS and it's Application to Power Sector" by NTPC	Department of Electrical Engineering		24/05/2020	
"Recycling of Construction and Demolition Waste: Conversion of Waste to Wealth" by JK Cement Limited	Department of Civil Engineering		12/05/2020	
"Intellectual Property Rights: Awareness and Implementation"	Department of Chemistry		25/01/2020	
A Workshop on "Yogic Sukshama evam Sthool Vyayama (All 53 Kriyas of Swami Dharendra Brahmchari Ji)" By - Shri Vinay Kumar Bharati, Yoga Therapist, Morarji Desai National Institute of Yoga, 68, Ashoka Road, New Delhi - 110001	Department of Yoga		04/11/2019 to 07/11/2019	
"Concrete Durability" by J.K. Cement Ltd.	Department of Civil Engineering		10/10/2019	
"Construction Management" by Fidesto Project Ltd., Delhi	Department of Electrical Engineering		30/09/2019	
"High Vacuum System" conducted by Technological Application Services, New Delhi	Department of Physics and Astrophysics		30/09/2019	
"Skill Set-up" by Sphinx Worldbiz Ltd., Noida	Department of Computer Science & Engineering		07/08/2019	

3.3.2 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year				
Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
Fuel from plastic waste	Gaurav Sharma, Atal Bihari, Rahul Kumar Sinha	Central University of Haryana, Mahendragarh	27/02/2020	Second prize in Innovation on National Science Day Exhibition
Power Meter Reader plus load control using GSM	Akshat Kant	Central University of Haryana, Mahendragarh	27/02/2020	Third prize in Innovation on National Science Day Exhibition

3.3.3 No. of Incubation centre created and start-ups incubated on campus during the year		
Incubation Centre	Name	Sponsored by
Centre for Innovation, Skills and Entrepreneurship Development	Institutional Innovation Council	Central University of Haryana
Name of the Start-up	Nature of Start-up	Date of commencement
Nil	Ideation and Conceptualisation Processing	01/07/2019

3.4 Research Publications and Awards	
3.4.1 Ph. Ds awarded during the year	
Name of the Department	No. of Ph.Ds Awarded
Management	4
English	3
Economics	1
Political Science	1
Education	1

3.4.2 Research Publications in the Journals notified on UGC website during the year			
	Department	No. of Publication	Average Impact Factor, if any
International	Department of Chemistry	25	4.470
International	Department of Printing and Packaging Technology	1	4.05
International	Department of Biotechnology	16	3.78
International	Department of Microbiology	13	3.71
International	Department of Biochemistry	22	3.7
International	Department of Civil Engineering	7	2.7
International	Department of Physics and Astrophysics	3	2.5
International	Department of Mathematics	20	1.5686
International	Department of Computer Science and Engineering	4	1.53
National	Department of Economics	5	1.5
International	Department of Environmental Studies	4	1.0515
National	Department of Management Studies	5	0.97
National	Department of Vocational Studies and Skill Development	2	0.45
International	Department of Statistics	23	0.3870
National	Department of Geography	3	0

International	Department of Electrical Engineering	12	0
National	Department of English and Foreign languages	1	0
National	Department of Hindi & Indian Languages	2	0
National	Department of Political Science	6	0
National	Department of Psychology	1	0
National	Department of Commerce	3	0
National	Department of Tourism and Hotel Management	2	0
National	Department of Law	5	0
National	School of Education	10	0
	TOTAL	195	

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

Department	No. of publication
Department of Biochemistry	11
Department of Electrical Engineering	10
Department of Microbiology	08
Department of Civil Engineering	06
Department of Computer Science Engineering	05
Department of Hindi & Indian Languages	04
Department of Economics	04
School of Education	04
Department of Nutrition Biology	03
Department of Environmental Studies	03
Department of Biotechnology	03
Department of Chemistry	03
Department of Management Studies	03
Department of Law	03
Swami Dayanand Saraswati Chair	03
Department of History & Archeology	02
Department of Journalism & Mass Communication	02
Department of Physics & Astrophysics	01
Department of CS&IT	01
Department of Sanskrit	01
Department of Vocational Studies & Skill Development	01
Department of Library and information Science	01
Department of Physical Education and Sports	01
TOTAL	83

3.4.4 Patents published/awarded during the year

Patent Details	Patent status Published/Filed	Patent Number	Date of Award
A method of removal of pollutants from atmosphere using green technology	Filed	202011009196	04/03/2020

Pharmaceutical composition for the treatment of diminution of bone tissue	Published	US10596115B2	24/03/2020
System for maximum power point tracking based on shading pattern identification	Published	202041016824 A	05/06/2020
Standalone photovoltaic inverter with reduced harmonic distortion	Published	202041016825 A	05/06/2020
Matchstick Holder	Filed	330225-001	19/06/2020
High performance dye sensitized solar cells using novel polymer quasi solid electrolytes	Published	202011024263 A	26/06/2020
A Method For Instantaneous Purification of Impure Drinking Water Using Nanotechnology	Filed	202011031257	21/07/2020

3.4.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/Web of Science or PubMed/ In dian Citation Index

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Recent developments in pretreatment technologies on lignocellulosic biomass: Effect of key parameters, technological improvements, and challenges	Bhatia, S.K., Jagtap, S.S., Bedekar, A.A., Bhatia, R.K., Patel, A.K., Pant, D., Rajesh Banu, J., Rao, C.V., Kim, Y.-G., Yang, Y.-H.	Bioresource Technology	2020	00	Central University of Haryana	29
'Masstige' marketing: A review, synthesis and research agenda	Kumar, A., Paul, J., Unnithan, A.B.	Journal of Business Research	2020	00	Central University of Haryana	10
The potential of siRNA based drug delivery in respiratory disorders: Recent advances and progress	Dua, K., Maurya, P.K., et al	Drug Development Research	2019	00	Central University of Haryana	9
Valorization of Rice Straw for Ethanol Production and Lignin Recovery Using Combined Acid-Alkali Pre-treatment	Kaur, A., Kuhad, R.C.	Bioenergy Research	2019	00	Central University of Haryana	8
Synthesis, characterization, theoretical studies and catecholase like activities of [MO ₆] type complexes	Ahamad, M.N., Kumar, M., Ansari, A., Mantasha, Ahmad, M., Shahid, M.	New Journal of Chemistry	2019	00	Central University of Haryana	8

Anticancer properties, apoptosis and catecholase mimic activities of dinuclear cobalt(II) and copper(II) Schiff base complexes	Naqi Ahamad, M., Iman, K., Raza, M.K., Kumar, M., Ansari, A., Ahmad, M., Shahid, M.	Bioorganic Chemistry	2020	00	Central University of Haryana	8
ZnO-Modified g-C ₃ N ₄ : A Potential Photocatalyst for Environmental Application	Paul, D.R., Gautam, S., Panchal, P., Nehra, S.P., Choudhary, P., Sharma, A.	ACS Omega	2020	00	Central University of Haryana	8
Production, characteristics, and biotechnological applications of microbial xylanases	Alokika, Singh, B.	Applied Microbiology and Biotechnology	2019	00	Central University of Haryana	7
Emerging complexity and the need for advanced drug delivery in targeting Candida species	Wadhwa, R., Pandey, P. Maurya, P.K., et al	Current Topics in Medicinal Chemistry	2019	00	Central University of Haryana	7
Selection and Evaluation of Probiotic and Functional Characteristics of Autochthonous Lactic Acid Bacteria Isolated from Fermented Wheat Flour Dough Babroo	Sharma, K., Attri, S., Goel, G.	Probiotics and Antimicrobial Proteins	2019	00	Central University of Haryana	5
An asymmetric watermarking scheme based on random decomposition in hybrid multi-resolution wavelet domain using 3D Lorenz chaotic system	Rakheja, P., Vig, R., Singh, P.	Optik	2019	00	Central University of Haryana	4
Metal-Organic Frameworks as Platform for Lewis-Acid-Catalyzed Organic Transformations	Yadav, A., Kanoo, P.	Chemistry - An Asian Journal	2019	00	Central University of Haryana	4
Security risk management in IoT environment	Malik, V., Singh, S.	Journal of Discrete Mathematical Sciences and Cryptography	2019	00	Central University of Haryana	4
Extractive Fermentation for Process integration and amplified pullulan production by A.	Badhwar, P., Kumar, P., Dubey, K.K.	Scientific Reports	2019	00	Central University of Haryana	3

pullulans in Aqueous Two Phase Systems						
Phytochemical constituents and ethnopharmacological properties of <i>Ageratum conyzoides</i> L.	Yadav, N., Ganie, S.A., Singh, B., Chhillar, A.K., Yadav, S.S.	Phytotherapy Research	2019	00	Central University of Haryana	3
Effect of paddy straw burning on soil microbial dynamics in sandy loam soil of Indo-Gangetic plains	Kumar, A., Kushwaha, K.K., Singh, S., Shivay, Y.S., Meena, M.C., Nain, L.	Environmental Technology and Innovation	2019	00	Central University of Haryana	3
Modified α -Bernstein operators with better approximation properties	Kajla, A., Acar, T.	Annals of Functional Analysis	2019	00	Central University of Haryana	3
Recent Developments in Direct C-H Functionalization of Quinoxalin-2(1H)-ones via Radical Addition Processes	Monika, M., Selvakumar, S.	Synthesis (Germany)	2019	00	Central University of Haryana	3
In silico mining and functional analysis of AP2/ERF gene in <i>Withania somnifera</i>	Tripathi, S., Srivastava, Y., Sangwan, R.S., Sangwan, N.S.	Scientific Reports	2020	00	Central University of Haryana	3
Process optimization for chemical pretreatment of rice straw for bioethanol production	Anu, Kumar, A., Jain, K.K., Singh, B.	Renewable Energy	2020	00	Central University of Haryana	3
Predicted concentrations of anticancer drugs in the aquatic environment: What should we monitor and where should we treat?	Cristóvão, M.B., Janssens, R., Yadav, A., Pandey, S., Luis, P., Vander Bruggen, B., Dubey, K.K., Mandal, M.K., Crespo, J.G., Pereira, V.J.	Journal of Hazardous Materials	2020	00	Central University of Haryana	3
Impairment of <i>Cronobacter sakazakii</i> and <i>Listeria monocytogenes</i> biofilms by cell-free preparations of lactobacilli of goat milk origin	Singh, N., Kaur, R., Singh, B.P., Rokana, N., Goel, G., Puniya, A.K., Panwar, H.	Folia Microbiologica	2020	00	Central University of Haryana	3
Microbial lipolytic enzymes – promising energy-efficient biocatalysts in bioremediation	Kumar, A., Gudiukaite, R., Gricajeva, A., Sadauskas, M., Malunavicius, V., Kamyab, H., Sharma, S., Sharma, T., Pant, D.	Energy	2020	00	Central University of Haryana	3
Recent developments in the chemistry of allenyl sulfones	Yadav, D., Menon, R.S.	Organic and Biomolecular Chemistry	2020	00	Central University of Haryana	3

Improved pullulan production and process optimization using novel GA-ANN and GA-ANFIS hybrid statistical tools	Badhwar, P., Kumar, A., Yadav, A., Kumar, P., Siwach, R., Chhabra, D., Dubey, K.K.	Biomolecules	2020	00	Central University of Haryana	3
Bézier–Bernstein–Durrmeyer type operators	Kajla, A., Acar, T.	Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales - Serie A: Matemáticas	2020	00	Central University of Haryana	3
Secretome analysis of thermophilic mould Myceliophthora thermophila cultivated on rice straw and hydrolysis of lignocellulosic biomass for bioethanol production	Bala, A., Anu, Alokika, Kumar, A., Kumar, S., Singh, D., Singh, B.	Biocatalysis and Biotransformation	2020	00	Central University of Haryana	2
Skimmed Milk-Based Encapsulation for Enhanced Stability and Viability of Lactobacillus gastricus BTM 7 Under Simulated Gastrointestinal Conditions	Singh, M., Sharma, D., Chauhan, R., Goel, G.	Probiotics and Antimicrobial Proteins	2019	00	Central University of Haryana	2
Chemical-biological hybrid systems for the metal recovery from waste lithium ion battery	Dolker, T., Pant, D.	Journal of Environmental Management	2019	00	Central University of Haryana	2
Determinants of financial inclusion in India: A literature review	Kavita, Suman	Indian Journal of Finance	2019	00	Central University of Haryana	2
A hybrid multiresolution wavelet transform based encryption scheme	Rakheja, P., Vig, R., Singh, P.	AIP Conference Proceedings	2019	00	Central University of Haryana	2
Insights into direct interspecies electron transfer mechanisms for acceleration of anaerobic digestion of wastes	Sharma, D., Mahajan, R., Goel, G.	International Journal of Environmental Science and Technology	2019	00	Central University of Haryana	2

Estimation in inverse Weibull distribution based on randomly censored data	Kumar, K., Kumar, I.	Statistica	2019	00	Central University of Haryana	2
Blending type approximation by bivariate generalized Bernstein type operators	Baxhaku, B., Kajla, A.	Quaestiones Mathematicae	2019	00	Central University of Haryana	2
Mesta (Hibiscus spp.)—a potential feedstock for bioethanol production	Lavanya, A.K., Sharma, A., Choudhary, S.B., Sharma, H.K., Nain, P.K.S., Singh, S., Nain, L.	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2020	00	Central University of Haryana	2
Spatial distribution and identification of bacteria in stressed environments capable to weather potassium aluminosilicate mineral	Rajawat, M.V.S., Singh, R., Singh, D., Yadav, A.N., Singh, S., Kumar, M., Saxena, A.K.	Brazilian Journal of Microbiology	2020	00	Central University of Haryana	2
On explicit exact solutions and conservation laws for time fractional variable-coefficient coupled Burger's equations	Kaur, J., Gupta, R.K., Kumar, S.	Communications in Nonlinear Science and Numerical Simulation	2020	00	Central University of Haryana	2
Sequential dilute acid and alkali deconstruction of sugarcane bagasse for improved hydrolysis: Insight from small angle neutron scattering (SANS)	Hemansi, Gupta, R., Aswal, V.K., Saini, J.K.	Renewable Energy	2020	00	Central University of Haryana	2
Assessment of arsenic and uranium co-occurrences in groundwater of central Gangetic Plain, Uttar Pradesh, India	Yadav, S.K., Ramanathan, A.L., Kumar, M., Chidambaram, S., Gautam, Y.P., Tiwari, C.	Environmental Earth Sciences	2020	00	Central University of Haryana	2
Double image encryption using 3D Lorenz chaotic system, 2D non-separable linear canonical transform and QR decomposition	Rakheja, P., Vig, R., Singh, P.	Optical and Quantum Electronics	2020	00	Central University of Haryana	2
Mechanistic basis of co-stimulatory CD40-CD40L ligation mediated regulation of immune responses in	Chand Dakal, T., Dhabhai, B., Agarwal, D., Gupta, R., Nagda, G., Meena, A.R., Dhakar, R., Menon, A., Mathur, R.,	Immunobiology	2020	00	Central University of Haryana	2

cancer and autoimmune disorders	Mona, Yadav, V., Sharma, A.					
Prospecting the Potential of Agroresidues as Substrate for Microbial Flavor Production	Sharma, A., Sharma, P., Singh, J., Singh, S., Nain, L.	Frontiers in Sustainable Food Systems	2020	00	Central University of Haryana	2
A new copper complex on graphene oxide: A heterogeneous catalyst for N-arylation and C-H activation	Mittal, A., Kumari, S., Parmanand, Yadav, D., Sharma, S.K.	Applied Organometallic Chemistry	2020	00	Central University of Haryana	2
Application of 1,2,3-benzotriazole as corrosion inhibitor for mild steel in sulphuric acid medium at different temperature	Kumar, H., Dhanda, T.	Asian Journal of Chemistry	2020	00	Central University of Haryana	2
Contribution of microbial phytases to the improvement of plant growth and nutrition: A review	Singh, B., Boukhris, i., Pragya, Kumar, v., Yadav, a.n., Farhat-Khemakhem, a., Kumar, a., Singh, d., Blibech, m., Chouayekh, h., Alghamdi, o.a.	Pedosphere	2020	00	Central University of Haryana	1
Exploring catecholase activity in dinuclear Mn(ii) and Cu(ii) complexes: An experimental and theoretical approach	Ahmad, M.S., Khalid, M., Khan, M.S., Shahid, M., Ahmad, M., Monika, Ansari, A., Ashafaq, M.	New Journal of Chemistry	2020	00	Central University of Haryana	1
A Model of Customer Loyalty: An Empirical Study of Indian Retail Banking Customer	Kant, R., Jaiswal, D., Mishra, S.	Global Business Review	2019	00	Central University of Haryana	1
Multiple types of exact solutions and conservation laws of new coupled (2 + 1) - dimensional Zakharov–Kuznetsov system with time-dependent coefficients	Kaur, B., Gupta, R.K.	Pramana - Journal of Physics	2019	00	Central University of Haryana	1
Generalized Bernstein–Durrmeyer operators of blending type	Kajla, A., Goyal, M.	Afrika Matematika	2019	00	Central University of Haryana	1
Bovicins: The Bacteriocins of Streptococci and Their Potential in Methane Mitigation	Garsa, A.K., Choudhury, P.K., Puniya, A.K., Dhewa, T., Malik, R.K., Tomar, S.K.	Probiotics and Antimicrobial Proteins	2019	00	Central University of Haryana	1

Decreased level of neurotrophic factor neuritin 1 in women with ovarian endometriosis after receiving gonadotropin-releasing hormone agonist treatment	Rahmawati, E., Yang, W.-C.V., Lei, Y.-P., Maurya, P.K., Chen, H.-W., Tzeng, C.-R.	International Journal of Molecular Sciences	2019	00	Central University of Haryana	1
Carbonic anhydrase modification for carbon management	Giri, A., Pant, D.	Environmental Science and Pollution Research	2020	00	Central University of Haryana	1
CO ₂ management using carbonic anhydrase producing microbes from western Indian Himalaya	Giri, A., Pant, D.	Bioresource Technology Reports	2019	00	Central University of Haryana	1
Statistical approximation of szasz type operators based on charlier polynomials	Kajla, A.	Kyungpook Mathematical Journal	2019	00	Central University of Haryana	1
Generalized Pareto distribution based on generalized order statistics and associated inference	Malik, M.R., Kumar, D.	Statistics in Transition	2019	00	Central University of Haryana	1
Comparative investigation of therapeutic plant <i>Withania somnifera</i> for yield, productivity, withanolide contents, and expression of pathway genes during contrasting seasons	Mishra, B., Bose, S.K., Sangwan, N.S.	Industrial Crops and Products	2020	00	Central University of Haryana	1
Profiling of Essential Oil Constituents in <i>Ocimum</i> Species	Maurya, S., Sangwan, N.S.	Proceedings of the National Academy of Sciences India Section B - Biological Sciences	2020	00	Central University of Haryana	1
Characteristics of an Acidic Phytase from <i>Aspergillus aculeatus</i> APF1 for Dephytinization of Biofortified Wheat Genotypes	Saxena, A., Verma, M., Singh, B., Sangwan, P., Yadav, A.N., Dhaliwal, H.S., Kumar, V.	Applied Biochemistry and Biotechnology	2020	00	Central University of Haryana	1

On new symmetry, series solution and conservation laws of nonlinear coupled Higgs field equation	Kumari, P., Gupta, R.K., Kumar, S.	European Physical Journal Plus	2020	00	Central University of Haryana	1
Behavioral study of self-compacting concrete with wollastonite microfiber as part replacement of sand for pavement quality concrete (PQC)	Jindal, A., Ransinchung, R.N.G.D., Kumar, P.	International Journal of Transportation Science and Technology	2020	00	Central University of Haryana	1
Arabinofuranosidases: Characteristics, microbial production, and potential in waste valorization and industrial applications	Poria, V., Saini, J.K., Singh, S., Nain, L., Kuhad, R.C.	Bioresource Technology	2020	00	Central University of Haryana	1
Single cell oil production by a novel yeast Trichosporon mycotoxinivorans for complete and ecofriendly valorization of paddy straw	Sagia, S., Sharma, A., Singh, S., Chaturvedi, S., Nain, P.K.S., Nain, L.	Electronic Journal of Biotechnology	2020	00	Central University of Haryana	1
Pseudo-Gated Adsorption with Negligible Volume Change Evoked by Halogen-Bond Interaction in the Nanospace of MOFs	Kanoo, P., Matsuda, R., Sato, H., Li, L., Hosono, N., Kitagawa, S.	Chemistry - A European Journal	2020	00	Central University of Haryana	1
Exploring solvent dependent catecholase activity in transition metal complexes: An experimental and theoretical approach	Mantasha, I., Shahid, M., Kumar, M., Ansari, A., Akhtar, M.N., Aldamen, M.A., Song, Y., Ahmad, M., Khan, I.M.	New Journal of Chemistry	2020	00	Central University of Haryana	1
Renewable and non-renewable energy consumption, economic growth and carbon emission in BRICS: Evidence from bootstrap panel causality	Banday, U.J., Aneja, R.	International Journal of Energy Sector Management	2020	00	Central University of Haryana	1
In Vitro Cytotoxicity Study of Cyclophosphamide, Etoposide and Paclitaxel on Monocyte Macrophage Cell Line Raw 264.7	Yadav, A., Mandal, M.K., Dubey, K.K.	Indian Journal of Microbiology	2020	00	Central University of Haryana	1

Algorithms for numerical solution of the equal width wave equation using multi-quadric quasi-interpolation method	Dhawan, S., Ak, T., Apaydin, G.	International Journal of Modern Physics C	2019	00	Central University of Haryana	
Spherically shaped pectin-g-poly(amidoxime)-Fe complex: A promising innovative pathway to tailor a new material in high amidoxime functionalization for fluoride adsorption	Sharma, P., Sen, K., Thakur, P., Chauhan, M., Chauhan, K.	International Journal of Biological Macromolecules	2019	00	Central University of Haryana	
Functional evaluation of a monotreme-specific antimicrobial protein, EchAMP, against experimentally induced mastitis in transgenic mice	Neerukonda, M., Pavuluri, S., Sharma, I., Kumar, A., Sailasree, P., Lakshmi, J.B., Sharp, J.A., Kumar, S.	Transgenic Research	2019	00	Central University of Haryana	
Study of Uranium in Drinking Water around the Sohna Fault Line in Haryana	Chahal, A., Kumar, S., Panghal, A., Kumar, A., Singh, J., Singh, P., Bajwa, B.S.	Journal of the Geological Society of India	2019	00	Central University of Haryana	
Enhanced biobutanol production by optimization of the medium from clostridium acetobutylicum mtcc 11274 using macroalgae gracilaria edulis	Rana, S., Dubey, K., Dhingra, A.	Journal of Applied Biology and Biotechnology	2019	00	Central University of Haryana	
Improved control on decay and postharvest quality deterioration of strawberry by microbial antagonists	Nayak, S.L., Sethi, S., Sharma, R.R., Singh, D., Singh, S.	Indian Journal of Horticulture	2019	00	Central University of Haryana	
Judd-Ofelt intensity parameters of Nd ³⁺ ions doped in BaO-ZnO-B ₂ O ₃ glasses	Nanda, K., Kundu, R.S., Punia, R., Sharma, S., Kishore, N.	AIP Conference Proceedings	2019	00	Central University of Haryana	
Non-linear optical properties of SiO ₂ -Modified Bi ₂ O ₃ -TeO ₂ -B ₂ O ₃	Berwal, N., Ahlawat, N., Mohan, D., Punia, R., Kishore, N.	AIP Conference Proceedings	2019	00	Central University of Haryana	

</inf> glass system						
Role of Fe ²⁺ O ³ and MoO ³ content on Optical Properties of Lead Borate Glasses	Sanjay, Shalini, Devi, S., Kumar, S., Kumar, M., Kishore, N., Ghosh, A., Kumar, N.	AIP Conference Proceedings	2019	00	Central University of Haryana	
Study of DC Conductivity of MoO ₃ based Bismuth Borate and Lead Borate Glasses	Sanjay, Devi, S., Shalini, Kumar, S., Kumar, M., Kishore, N., Rajni, Ghosh, A., Singh, V.	AIP Conference Proceedings	2019	00	Central University of Haryana	
Linear and nonlinear optical characterization of neodymium doped barium-zinc-borate glasses	Nanda, K., Kundu, R.S., Punia, R., Mohan, D., Kishore, N.	AIP Conference Proceedings	2019	00	Central University of Haryana	
Analysing the Outwardly Developed-Inwardly Backward Paradox Surrounding the Educational Status of Muslims in Kerala, India	Haneefa, M.	Journal of Muslim Minority Affairs	2019	00	Central University of Haryana	
Implementing risk management in pervasive and IoT environments	Malik, V., Singh, S.	International Journal of Recent Technology and Engineering	2019	00	Central University of Haryana	
Assessing risks and cloud readiness in PaaS environments	Malik, V., Singh, S.	International Journal of Recent Technology and Engineering	2019	00	Central University of Haryana	
Optimization of cellulolytic enzyme production by thermophilic fungus thermoascus aurantiacus using response surface methodology	Singh, A., Bajar, S.	Indian Journal of Biochemistry and Biophysics	2019	00	Central University of Haryana	
Ricardian Equivalence: Empirical Evidences From China	Banday, U.J., Aneja, R.	Asian Affairs(UK)	2019	00	Central University of Haryana	
Single-ended speech quality evaluation using linear combination of the quality score	Dubey, R.K., Kumar, A.	Recent Advances in Electrical and	2019	00	Central University of Haryana	

estimates of multi-instances features		Electronic Engineering				
Microbial profiling of malera and phab: Starters used for preparing traditional fermented foods and beverages in himachal pradesh, India	Sharma, V., Attri, S., Mahajan, R., Goel, G.	Current Nutrition and Food Science	2019	00	Central University of Haryana	
Understanding process variables and their interactions for maximizing production of artemisinin derivative artemether (Anti-malarial drug) through Cunninghamella echinulata var elegans at 5 L bioreactor level	Dubey, K.K., Kumar, P.	Current Bioactive Compounds	2019	00	Central University of Haryana	
Study of vibrational spectroscopy, linear and nonlinear optical properties of borate-modified tellurium-silica-bismuthate glasses	Berwal, N., Ahlawat, N., Mohan, D., Ohlan, A., Punia, R., Kishore, N.	Indian Journal of Physics	2019	00	Central University of Haryana	
Novel acetohydrazide pyrazole derivatives: Design, synthesis, characterization and antimicrobial activity	Verma, A., Kumar, V., Kataria, R., Singh, J.	Asian Journal of Chemistry	2019	00	Central University of Haryana	
Inference for the unit-Gompertz model based on record values and inter-record times with an application	Kumar, D., Dey, S., Ormoz, E., MirMostafaei, S.M.T.K.	Rendiconti del Circolo Matematico di Palermo	2019	00	Central University of Haryana	
Asymmetric watermarking scheme in fractional Hartley domain using modified equal modulus decomposition	Singh, P., Yadav, A.K., Singh, K., Saini, I.	Journal of Optoelectronics and Advanced Materials	2019	00	Central University of Haryana	
A new lifetime distribution with decreasing and upside-down bathtub-shaped Hazard rate function	Dey, S., Nassar, M., Kumar, D., Alzaatreh, A., Tahir, M.H.	Statistica	2019	00	Central University of Haryana	
Microbial priming for in situ management of paddy straw and its effects on soil microbiological	Kumar, A., Singh, S., Shivay, Y.S., Das, S., Pal, M., Nain, L.	Indian Journal of Agricultural Sciences	2019	00	Central University of Haryana	

properties under rice-wheat cropping system						
An asymmetric image encryption mechanism using QR decomposition in hybrid multi-resolution wavelet domain	Rakheja, P., Singh, P., Vig, R.	Optics and Lasers in Engineering	2020	00	Central University of Haryana	
Trending biocontrol strategies against Cronobacter sakazakii: A recent updated review	Chauhan, R., Singh, N., Pal, G.K., Goel, G.	Food Research International	2020	00	Central University of Haryana	
Nitrile hydratase mediated green synthesis of lactamide by immobilizing Rhodococcus pyridinivorans NIT-36 cells on N, N'-Methylene bis-acrylamide activated chitosan	Singh, P., Kumari, A., Chauhan, K., Attri, C., Seth, A.	International Journal of Biological Macromolecules	2020	00	Central University of Haryana	
A Rapid Advice Guideline for the Prevention of Novel Coronavirus Through Nutritional Intervention	Budhwar, S., Sethi, K., Chakraborty, M.	Current Nutrition Reports	2020	00	Central University of Haryana	
The prospective application of a graphene/MoS ₂ /Si heterostructure in Si-HIT solar cells for higher efficiency	Borah, C.K., Tyagi, P.K., Kumar, S.	Nanoscale Advances	2020	00	Central University of Haryana	
Increased thermal tolerance in Cronobacter sakazakii strains in reconstituted milk powder due to cross protection by physiological stresses	Chauhan, R., Bansal, S., Azmi, W., Goel, G.	Journal of Food Safety	2020	00	Central University of Haryana	
Resonant and Non-resonant Nonlinear Optical Properties of Er ³⁺ modified BaO-ZnO-B ₂ O ₃ Glasses at 532 and 1550 nm	Nanda, K., Kundu, R.S., Punia, R., Mohan, D., Kishore, N.	Journal of Non-Crystalline Solids	2020	00	Central University of Haryana	
Energy, efficiency, economic impact, and heat transfer aspects of solar flat plate collector	Sundar, L.S., Sintie, Y.T., Said, Z., Singh, M.K., Punnaiah, V., Sousa, A.C.M.	Sustainable Energy Technologies and	2020	00	Central University of Haryana	

with Al ₂ O ₃ nanofluids and wire coil with core rod inserts		Assessments				
Cu (II) Schiff base complex grafted guar gum: Catalyst for benzophenone derivatives synthesis	Krishna, Kumari, S., Yadav, D., Sharma, S.K.	Applied Catalysis A: General	2020	00	Central University of Haryana	
Statistical inference based on generalized Lindley record values	Singh, S., Dey, S., Kumar, D.	Journal of Applied Statistics	2020	00	Central University of Haryana	
Enhanced endoxylanase production by Myceliophthora thermophila using rice straw and its synergism with phytase in improving nutrition	Dahiya, S., Kumar, A., Singh, B.	Process Biochemistry	2020	00	Central University of Haryana	
Process development for sodium carbonate pretreatment and enzymatic saccharification of rice straw for bioethanol production	Anu, Singh, B., Kumar, A.	Biomass and Bioenergy	2020	00	Central University of Haryana	
A Genetic Analysis of Tumor Progression in Drosophila Identifies the Cohesin Complex as a Suppressor of Individual and Collective Cell Invasion	Canales Coutiño, B., Cornhill, Z.E., Couto, A., Mack, N.A., Rusu, A.D., Nagarajan, U., Fan, Y.N., Hadjicharalambous, M.R., Castellanos Uribe, M., Burrows, A., Lourdusamy, A., Rahman, R., May, S.T., Georgiou, M.	iScience	2020	00	Central University of Haryana	
Optimization of reducing agents for selective bandgap manipulation in visible region of graphene oxide and its work function estimation	Krishnia, L., Tyagi, P.K.	Materials Performance and Characterization	2020	00	Central University of Haryana	
Parameter estimation for inverse pareto distribution with randomly censored life time data	Kumar, K., Kumar, I.	International Journal of Agricultural and Statistical Sciences	2020	00	Central University of Haryana	
Linkage between Financial Inclusion and Economic Growth: An	Dahiya, S., Kumar, M.	Vision	2020	00	Central University of Haryana	

Empirical Study of the Emerging Indian Economy						
Relations for single and product moments of exponential-weibull distribution based on progressively censored data	Malik, M.R., Kumar, D.	International Journal of Agricultural and Statistical Sciences	2020	00	Central University of Haryana	
Differences of operators of generalized Szász type	Kajla, A., Gupta, R.	Khayyam Journal of Mathematics	2020	00	Central University of Haryana	
Enhanced production of bacterial xylanase and its utility in saccharification of sugarcane bagasse	Alokika, Singh, B.	Bioprocess and Biosystems Engineering	2020	00	Central University of Haryana	
Economic governance: Does it make or break a dominant party equilibrium? The case of India	Sharma, C.K., Swenden, W.	International Political Science Review	2020	00	Central University of Haryana	
1,2,3-Triazole β -lactam conjugates as antimicrobial agents	Kaur, R., Singh, R., Kumar, A., Kaur, S., Priyadarshi, N., Singhal, N.K., Singh, K.	Heliyon	2020	00	Central University of Haryana	
Synergistic inoculation of Azotobacter vinelandii and Serendipita indica augmented rice growth	Dabral, S., Saxena, S.C., Choudhary, D.K., Bandyopadhyay, P., Sahoo, R.K., Tuteja, N., Nath, M.	Symbiosis	2020	00	Central University of Haryana	
An improved method for isolation of high-quality RNA from starch-rich wheat grains	Goyal, M., Dhillon, S., Kumar, P.	Journal of Environmental Biology	2020	00	Central University of Haryana	
X-FEM: An efficient algorithm for simulation of phase transition during prostate cryosurgery	Tanwar, S., Kumari, P.	Computers and Mathematics with Applications	2020	00	Central University of Haryana	
Double image encryption scheme for iris template protection using 3D Lorenz system and modified equal modulus decomposition in hybrid transform domain	Rakheja, P., Singh, P., Vig, R., Kumar, R.	Journal of Modern Optics	2020	00	Central University of Haryana	
Studies on antimicrobial activity of syzygium cumini and syzygium alternifolium	Sharma, V.K., Chitra, D., Charumathy, M., Gangadhar, L., Anooj, E.S.	Annals of Tropical Medicine and Public Health	2020	00	Central University of Haryana	

Enhanced production of lipstatin from mutant of <i>Streptomyces toxytricini</i> and fed-batch strategies under submerged fermentation	Khushboo, Pinki, Kumar, P., Tripathi, A., Luthra, U., Dubey, K.K.	3 Biotech	2020	00	Central University of Haryana	
Pharmacological preconditioning with phosphodiesterase inhibitor: an answer to stem cell survival against ischemic injury through JAK/STAT signaling	Yadav, M., Kumari, P., Yadav, V., Kumar, S.	Heart Failure Reviews	2020	00	Central University of Haryana	
Soil metaproteomics as a tool for monitoring functional microbial communities: promises and challenges	Abiraami, T.V., Singh, S., Nain, L.	Reviews in Environmental Science and Biotechnology	2020	00	Central University of Haryana	
Bu ⁴ NI-Catalyzed, Radical-Induced Regioselective N-Alkylations and Arylations of Tetrazoles Using Organic Peroxides/Peresters	Rajamanickam, S., Sah, C., Mir, B.A., Ghosh, S., Sethi, G., Yadav, V., Venkataramani, S., Patel, B.K.	Journal of Organic Chemistry	2020	00	Central University of Haryana	
Time fractional (2+1)-dimensional Wu–Zhang system: Dispersion analysis, similarity reductions, conservation laws, and exact solutions	Kaur, B., Gupta, R.K.	Computers and Mathematics with Applications	2020	00	Central University of Haryana	
Chloroacetyl-Mediated Modification of Chitosan by Tannic Acid to Synthesize Economical Tanninate-Chitosan and Its Use in Fluoride Ions Adsorption from Aqueous Solution	Sen, K., Sharma, P., Chauhan, K.	Chemistry Select	2020	00	Central University of Haryana	
A study of children enrollment in government elementary school in relation to socio-economic status	Kumara, P., Chahal, D.	International Journal of Scientific and Technology Research	2020	00	Central University of Haryana	
Maximum term of transcendental entire function and spider's web	Tomar, G., Mishra, V.N.	Mathematica Slovaca	2020	00	Central University of Haryana	

Thermal behaviour of TIG arc surfacing affecting mechanical properties of AISI 4340 steel substrate under static and dynamic loading	Kumar, S., Ghosh, P.K.	Materials Science and Engineering A	2020	00	Central University of Haryana	
Artificial intelligent environments: Risk management and quality assurance implementation	Malik, V., Singh, S.	Journal of Discrete Mathematical Sciences and Cryptography	2020	00	Central University of Haryana	
International migration remittances and economic growth in Kerala: An econometric analysis	Aneja, R., Praveen, A.	Journal of Public Affairs	2020	00	Central University of Haryana	
Evolutionary Computing Environments: Implementing Security Risks Management and Benchmarking	Malik, V., Singh, S.	Procedia Computer Science	2020	00	Central University of Haryana	
Abundant solutions of certain nonlinear evolution equations arising in shallow water waves	Kumari, P., Gupta, R.K., Kumar, S.	Advances in Mathematics : Scientific Journal	2020	00	Central University of Haryana	
Concise synthesis of 1,1-diarylviny sulfones and investigations on their anti-proliferative activity via tubulin inhibition	Reddy, L., Dharmabalan, S.T., Manupati, K., Yeeravalli, R., Vijay, L.D., Donthiboina, K., Naik, V.L., Das, A.	Anti-Cancer Agents in Medicinal Chemistry	2020	00	Central University of Haryana	
Analyzing the impact of temperature on axoplasmic fluid properties defining neuronal excitation	Bhatia, S., Sharma, P., Singh, P., Bhatia, P.	Journal of Thermal Engineering	2020	00	Central University of Haryana	
Second-order nondifferentiable multiobjective mixed type fractional programming problems	Dubey, R., Mishra, V.N.	International Journal of Nonlinear Analysis and Applications	2020	00	Central University of Haryana	
Production of cellulolytic enzymes by Myceliophthora thermophila and their applicability in saccharification of rice straw	Anu, Kumar, A., Singh, D., Kumar, V., Singh, B.	Biomass Conversion and Biorefinery	2020	00	Central University of Haryana	

Inference for generalized inverse Lindley distribution based on generalized order statistics	Kumar, D., Nassar, M., Dey, S.	Afrika Matematika	2020	00	Central University of Haryana	
Optimization of discharge patterns in parkinson condition in subthalamic nucleus model of basal ganglia using particle swarm optimization algorithm	Dhar, S., Yadav, S., Singh, P., Singh, J., Yadav, A.K.	Advances in Mathematics : Scientific Journal	2020	00	Central University of Haryana	

3.4.6 h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)						
Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
As listed at 3.4.5	As listed at 3.4.5	As listed at 3.4.5	2019-20	7	208	Central University of Haryana
3.4.7 Faculty participation in Seminars/Conferences and Symposia during the year :						
No. of Faculty		International level	National level		State level	Local level
Seminars		4	3		0	0
Workshops		5	9		22	24
Presented papers		11	5		5	0
Resource Persons		11	16		7	0
Keynote Speaker		0	3		1	0
Webinar		43	35		71	22
Conference		5	2		0	0
Symposia		2	0		0	1
Convenor		0	0		1	0
Chaired a Session		5	2		2	0
Delegate (Workshop)		0	1		0	0
Delivered Talk (Workshop)		0	0		1	0
3.5 Consultancy						
3.5.1 Revenue generated from Consultancy during the year						
Name of the Consultant(s) department		Name of Consultancy project	Consulting/Sponsoring Agency		Revenue generated (amount in rupees)	

Chemistry	Utilization of Biomass Ash	Starwire India Vidyut Pvt. Ltd, Mahendragarh	4,50,000
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3.5.2 Revenue generated from Corporate Training by the institution during the year

Name of the Consultant(s) & Department	Title of the Programme	Agency seeking training	Revenue generated (amount in rupees)	Number of trainees
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NIL

3.6 Extension Activities

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

Title of the Activities	Organising unit/ agency/ collaborating agency	Number of teachers coordinated in such activities	Number of students participated in such activities
Yogathon organized by NSS Units Central University of Haryana	NSS	25	177
Patriotic Natak “Jaliawala Bagh” organized by NSS Volunteers & other Students of Central University of Haryana	NSS in collaboration with Haryana Kala Parishad and NZCC, Patiala	34	237
Professional First Aid & Home Nursing Training for NSS Volunteers	NSS and YRC in collaboration with IRCS, Haryana	2	50
Awareness Campaign & Cleanliness Drive Organized by Department of Environmental Studies & NSS Units Central University of Haryana	NSS in collaboration with Dept of Environmental Studies	7	154
Voluntary Services to Help Disabled and Old-age Voters during Lok Sabha Election at Election Booth of Mahendragarh District	NSS and YRC with District Administration, Mahendragarh	2	79
World Tobacco Day organized by NSS Units, Central University of Haryana	NSS	38	249
Plantation Drive at adopted villages organized by NSS Units, Central University of Haryana	NSS with Panchayats of adopted Villages	11	134
International Yoga Day Celebrations at Central University of Haryana	NSS	43	324
Pre-RD Zonal-Level Selection Trial organized by NSS Units, Central University of Haryana	NSS with SNO (DHE), Panchkula	2	2
NSS Units Special Camp at adopted villages	NSS Units with Panchayat of adopted Village-Jant	2	194
Voluntary Help for Disabled and Old-age Voters during Vidhan Sabha Elections at Election Booths of Mahendragarh District	NSS and YRC with District Administration, Mahendragarh	2	89
“Run for Unity” organized by NSS Units, Central University of Haryana	NSS	34	166
5 th Blood Donation Camp-2019 organized by NSS Units, Central University of Haryana	NSS in collaboration with IRCS, Delhi	12	445

Prabhat Pheri “Paraali Na Jalaye” at adopted villages organized by NSS Units, Central University of Haryana	NSS	2	189
Two volunteers participated in Workshop on “Leadership & Personality Development” organized by Rajiv Gandhi National Institute of Youth Development and N.S.S. Haryana at RGNIYD RC, Chandigarh	NSS and RGNIYD RC, Chandigarh	1	2
Cloth Donation Drive for needy people organized by NSS Units, Central University of Haryana	NSS	4	29
International Volunteer’s Day organized by NSS Units, Central University of Haryana	NSS in association with Nehru Yuva Kendra	2	95
Republic Day Celebrated at Central University of Haryana	NSS in collaboration with YRC	2	99
Survey at adopted villages by NSS Volunteers sponsored by Unnat Bharat Abhiyan	NSS in collaboration with UBA	3	45
Shaheed Diwas celebrated at Central University of Haryana	NSS	2	76
Awareness campaign for protection from Corona Virus (COVID-19)	NSS	2	135
Awareness campaign for Janta Curfew	NSS	2	223
Distribution of Mask and Sanitizer at adopted village	NSS in collaboration with Health Centre, Central University of Haryana	1	7
Awareness campaign for Download Aarogya Setu App	NSS	2	137
Poster making competition theme of COVID-19 awareness	NSS	2	45
COVID-19 Awareness through All India Radio, Hisar by Programme Coordinator NSS Units, Central University of Haryana	NSS	1	147
Online COVID-19 Awareness for NSS Volunteers by the Vice Chancellor, Central University of Haryana	NSS	2	88
Online poetry competition based on Corona awareness	NSS	2	19
Preparation of masks by the NSS Volunteers on the call of the Vice Chancellor	NSS in collaboration with Health Centre Staff, Central University of Haryana	2	14
Organized photography and videography competition on theme “Yoga with Family”.	NSS	2	39
Online Seminar on "Fighting Climate change through Diet" Organized by NSS Units, Central University of Haryana	NSS in collaboration with Humane Society International, India	2	99

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

Name of the Activity	Award/recognition	Awarding bodies	No. of Students benefited
Professional First Aid & Home Nursing Training for NSS Volunteers in association with Indian Red Cross Society	Professional First Aid Certificate to 50 Selected Students	YRC, IRCS, Haryana	50
Pre-RD Zonal-Level Selection Trial organized by NSS Units, Central University of Haryana	One Student selected for State-Level Pre-RD Trial, selected for Pre-RD and participated in Pre-RD Camp.	Reginal Direcorate,De lhi	1
Two volunteers participated in Workshop on Leadership & Personality Development organized by Rajiv Gandhi National Institute of Youth Development and N.S.S. Haryana at RGNIYD RC, Chandigarh	Certificate of Participation	RGNIYD RC, Chandigarh	2
International Volunteers Day organized by NSS Units, Central University of Haryana in association with Nehru Yuva Kendra, Mahendragarh	Best Volunteer Award	NYK, Mahendragarh	6
Online Seminar on "Fighting Climate change through Diet" Organized by NSS Units, Central University of Haryana and Humane Society International India	Certificate of Appreciation	Humane Society International India	89

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

Name of the scheme	Organising unit/ agency/ collaborating agency	Name of the activity	Number of teachers coordinated in such activities	Number of students participated in such activities
Patriotic Programmes	NSS in collaboration with Haryana Kala Parishad and NZCC Patiala	Patriotic Natak "Jaliawala Bagh"	34	237
Awareness Programmes	NSS and Ministry of Youth and Sports Affairs, GoI	Yogathon organized by NSS Units, Central University of Haryana	25	177
Awareness Campaigns	NSS in collaboration with Dept. of Environmental Studies	Awareness Campaign & Cleanliness Drive	7	154
Voluntary Help Desk During Elections	NSS and YRC with District Administration Mahendragarh	Volunteers Helped Disabled and Old-age Voters during Lok Sabha Elections at Election Booths of Mahendragarh District	2	79
International Yoga Day Celebration	NSS and Ministry of AYUSH, GoI	Yoga Day Celebration	43	724

Voluntary Help Desk During Elections	NSS and YRC with District Administration Mahendragarh	Volunteers Help Desk for Disabled and Old-age Voters during Vidhan Sabha Elections at Election Booths of Mahendragarh District	2	89
Blood Donation Camp	NSS in collaboration with IRCS Delhi	5 th Blood Donation Camp 2019	12	445
Awareness Programme	NSS RD	“Paraali Na Jalaye” Awareness rally against Stubble Burning	2	189
International Volunteers Day	NSS in association with Nehru Yuva Kendra	International Volunteers Day and Award Function	2	95
Village Survey	NSS in collaboration with UBA	Survey at adopted villages by NSS Volunteers sponsored by Unnat Bharat Abhiyan	3	45

3.7 Collaborations

3.7.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of Activity	Participant	Source of financial support	Duration
Research	Ms. Hemansi	The Indo-US Science & Technology Forum (IUSSTF)- DBT, New Delhi	6-month
Research Project	IIT Roorkee and CUH	Department of Science and Technology, India	2019-2021

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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	participant
Research Project work of M.Sc. Physics SEM IV students	Project work	RRCAT Indore	January 2020 to May 2020	10
R&D collaboration and PG dissertation	Project work	1. NABI, Mohali 2. IMTECH, Chandigarh 3. BRSI, Jaipur NRSC, ISRO	6 months	01
Student Training	Summer Training	HPL Electric & Power Ltd, Sector 37, Gurugram	15/05/20 to 15/07/20	1
Student Training	Summer Training	Advent Engineer	15/04/20 to 15/07/20	2
Student Training	Summer Training	DMRC	15/06/20 to 05/08/20	1
Student Training	Summer Training	Girdhar roll wrap company pvt .ltd	15/04/20 to 15/06/20	2
Student Training	Summer	Hex-n bit	14/06/20 to	1

	Training		7/08/20	
Student Training	Summer Training	NTN NEI Manufacturing India Pvt Ltd	28/05/20 to 28/07/20	1
Student Training	Summer Training	ROKI minda co.private limited Baval	05/06/20 to 20/07/20	1
Student Training	Summer Training	Sudesh kumar electrical and services	10/05/20 to 30/06/20	2
Student Training	Summer Training	Think next technology	01/06/20 to 20/07/20	1
Student Training	Summer Training	Udemy	03/06/20 to 17/07/20	1
Student Training	Summer Training	V.I.Solutions pvt.Ltd.	14/05/20 to 18/06/20	4
Student Training	Summer Training	WebTek Labs Pvt. Ltd. (India)	25/05/20 to 08/07/20	4
Student Training	Summer Training	Zotto.io	20/04/20 to 08/06/20	1
Student Training	Internship	Accil auto steel Pvt Ltd	13/01/20 to 31/05/20	2
Student Training	Internship	AIP techno consultant pvt. Ltd.	15/01/20 to 21/03/20	1
Student Training	Internship	Amplus Solar	27/01/20 to 30/05/20	1
Student Training	Internship	Atma Autotech Engineers private limited	30/01/20 to 15/05/20	1
Student Training	Internship	DBG Technology (India) Pvt. Ltd.	02/01/20 to 28/02/20	1
Student Training	Internship	Exide Industries, Bawal	21/01/20 to 21/06/20	1
Student Training	Internship	Honda HMSI manesar	31/01/20 to 30/05/20	1
Student Training	Internship	Js Power Solution, Bhiwadi /Krisumi Corporation (Tata Project Limited), Manesar Haryana	20/01/20 to 01/06/20	1
Student Training	Internship	Krishna Enterprises	10/02/20 to 10/6/20	1
Student Training	Internship	Line distribution	13/01/20 to 27/05/20	3
Student Training	Internship	Lucas-TVS pvt.limited	09/01/20 to 09/05/20	1
Student Training	Internship	Maruti Suzuki India Ltd.	13/01/20 to 13/05/20	4
Student Training	Internship	Mayur Electromeck Private Limited	16/01/20 to 20/03/20	2
Student Training	Internship	Mitsubishi Electric Automotive India Pvt Ltd	14/01/20 to 31/05/20	1
Student Training	Internship	MV Power Solutions	20/01/20 to 20/05/20	1
Student Training	Internship	Satyam Auto Component Pvt. Ltd.	17/01/20 to 18/05/20	2

Student Training	Internship	SOMIC ZF components Pvt. ltd	13/01/20 to 20/03/20	1
Student Training	Internship	Tata Teleservices Limited	31/01/20 to 29/05/20	3
Student Training	Internship	Vision automation and robotic solution	09/01/20 to 31/05/20	1
Student Training	Internship	Zephyr limited	10/01/20 to 10/04/20	1
Student Training	Industrial Training of Students	Orangus India Pvt. Ltd., New Delhi	Jan 2020 - May 2020	2
Student Training	Industrial Training of Students	Apron	Jan 2020 - May 2020	1
Student Training	Industrial Training of Students	Rostan Technologies Pvt. Ltd.	Jan 2020 - May 2020	2
Student Training	Industrial Training of Students	DUCAT India	Jan 2020 - May 2020	1
Student Training	Industrial Training of Students	Twinline Business Solutions Pvt. Ltd.	Jan 2020 - May 2020	1
Student Training	Industrial Training of Students	Harvesting India Pvt. Ltd.	Jan 2020 - May 2020	1
Student Training	Industrial Training of Students	Maruti Suzuki India Ltd.	Jan 2020 - May 2020	1
Student Training	Industrial Training of Students	HUAWEI	Jan 2020 - May 2020	1
Student Training	Industrial Training of Students	Lirik Infotech Pvt, Ltd.	Jan 2020 - May 2020	1
Student Training	Industrial Training of Students	Btrack India	Jan 2020 - May 2020	1
Student Training	Industrial Training of Students	Aricent Technologies (H) India Ltd.	Jan 2020 - May 2020	1
Student Training	Industrial Training of Students	AIP Techno Consultant Ltd	Jan 2020 - May 2020	4
Student Training	Industrial Training of Students	B L Gupta Construction Pvt Ltd	Jan 2020 - May 2020	6
Student Training	Industrial Training of Students	Arete india project pvt Ltd	Jan 2020 - May 2020	1

Student Training	Industrial Training of Students	Signature Global	Jan 2020 - May 2020	1
Student Training	Industrial Training of Students	R&R enterprises	Jan 2020 - May 2020	1
Student Training	Industrial Training of Students	Fidesto Projects Pvt Ltd, Pune	June 2019 to July 2019	3
Student Training	Industrial Training of Students	Marathon Realty Pvt Ltd, Mumbai(Adani Realty)	June 2019 to July 2019	2
Student Training	Industrial Training of Students	L & T, Delhi	June 2019 to July 2019	2
Student Training	Industrial Training of Students	L&T Nagaur	June 2019 to July 2019	1
Student Training	Industrial Training of Students	Godrej Properties, Gurugram	June 2019 to July 2019	2
Student Training	Industrial Training of Students	Q-Catalyst, Gurugram	June 2019 to July 2019	2
Student Training	Industrial Training of Students	Unihorn India Pvt Ltd, Gurugram	June 2019 to July 2019	2
Student Training	Industrial Training of Students	Prism Jhonson Ltd, Gurugram	June 2019 to July 2019	2
Student Training	Industrial Training of Students	G.D Built Tech Pvt Ltd, Gurugram	June 2019 to July 2019	2
Student Training	Industrial Training of Students	B L Gupta Construction Ltd Gurugram	June 2019 to July 2019	5
Student Training	Industrial Training of Students	Petrofac, Gurugram	June 2019 to July 2019	2
Student Training	Industrial Training of Students	DRDO, Delhi	June 2019 to July 2019	2
Student Training	Industrial Training of Students	DLF, Gurugram	June 2019 to July 2019	2
Student Training	Industrial Training of Students	Bridgecon, Infraconsultant Pvt Ltd	June 2019 to July 2019	1
Student Training	Industrial Training of Students	Montycarlo Pvt Ltd, Gurugram	June 2019 to July 2019	1

Student Training	Industrial Training of Students	PWD, Rajouri	June 2019 to July 2019	1
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3.7.3 MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose and Activities	Number of students/teachers participated under MoUs
NABI	30/08/2019	R&D and sharing of facilities	02
PRONAT S.C.	20/04/2020	Research project	02

CRITERION IV – INFRASTRUCTURE AND LEARNINGRESOURCES			
4.1 Physical Facilities			
4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year			
Budget allocated for infrastructure augmentation		Budget utilized for infrastructure development	
975 lakhs		600 lakhs	
4.1.2 Details of augmentation in infrastructure facilities during the year			
Facilities	Existing	Newly added	
Campus area	484 acre	--	
Class rooms	94	--	
Laboratories	57	25	
Seminar Halls	18	--	
Classrooms with LCD facilities	1	0	
Classrooms with Wi-Fi/ LAN	94	0	
Seminar halls with ICT facilities	14	02	
Video Centre	5	5	
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	151	151(IP Phones/ EPABX) Total cost 11 Lakh	
Value of the equipment purchased during the year (Rs. in Lakhs)	547.27	1230.73	
Others	0	0	
4.2 Library as a Learning Resource			
4.2.1 Library is automated {Integrated Library Management System (ILMS)}			
Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
e-granthalaya Library Management Software (for Library-)	Fully Automated with Online Public Access Catalogue (Web OPAC);	Ver.4.0 Rel.7, 2019 (Enterprise Edition);	2017
KOHA Library Management Software (for Library-2)	Fully Automated with OPAC	KOHA 18.11	2019

4.2.2 Library Services:									
	Existing		Newly added		Total				
	No.	Value	No.	Value	No.	Value			
Text Books and Reference Books	29325	36508564.00	4024	3491436.00	33349	40000000.00			
e-Books	0	0	6654	24181416.00	6654	24181416.00			
Journals	0	0	36	1702580.00	36	1702580.00			
e-Journals**	0	0	15	21654776.00	15	21654776.00			
Digital Database*	1	361834.00	7	4745213.00	8	51,07,047.00			
CD & Video	200	0	85	0	285	0			
Library automation#	1	0	--	--	1	0			
Weeding (Hard & Soft)	0	0	0	0	0	0			
Others (specify) Inter Library Loan Service (DELNET)	1	16500	1	13500	2	30,000			
*Software; ** Online databases and e-journals; # Free software (of NIC)									
4.2.3 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS)etc									
Name of the teacher	Name of the module		Platform on which module is developed		Date of launching e - content				
Prof. Sarika Sharma	Personal Emotional Development and Counselling		ARPIT- SWAYAM		1/11/2018				
Dr.Tejpal Dhewa	Food Microbiology and Food safety		SWAYAM		01/01/2020				
Dr. Aarti Yadav	Life Skills in Education		CANVAS in structure		22/04/2020				
4.3 IT Infrastructure									
4.3.1 Technology Upgradation (overall)									
	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available band width (MGB PS)	Others
Exist ing	516	4	1	2	1	1	1	1 GBPS	
Added	134	4	1	0	0	0	0	1 GBPS	
Total	650	8	2	2	1	1	1	2 GBPS	
4.3.2 Bandwidth available of internet connection in the Institution (Leased line)									
1 GBPS									

4.3.3 Facility for e-content	
Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Panopto- E-Learning Smart Class rooms	https://cuh.cloud.panopto.eu/Panopto/Pages/Home.aspx
LMS E-PG Pathshala	http://epgp.inflibnet.ac.in/

4.4 Maintenance of Campus Infrastructure

4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
11.67lac	11.67lac	45.11 lac	45.11 lac

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

IT Facilities:

<http://www.cuh.ac.in/wifi.aspx>

<http://www.cuh.ac.in/virtualclassroom.aspx>

IT Security Policy:

<http://www.cuh.ac.in/admin/uploads/files/IT%20security%20Policy%20CUH.pdf>

Library Facilities:

<http://www.cuh.ac.in/library.aspx>

Sports Facilities:

<http://www.cuh.ac.in/sports.aspx>

Centre for Innovation skill and Entrepreneurship Development (CISED):

<http://www.cuh.ac.in/Innovationcentre.aspx>

Health Care Services:

<http://www.cuh.ac.in/Healthandcare.aspx>

Hostel Facilities:

<http://www.cuh.ac.in/Hostel.aspx>

Guest House Facilities:

<http://www.cuh.ac.in/Guesthouse.aspx>

Bank With ATM Facilities:

<http://www.cuh.ac.in/Bankatm.aspx>

Post Office Facilities:

<http://www.cuh.ac.in/postoffice.aspx>

Transport Facilities:

<http://www.cuh.ac.in/Transport.aspx>

CUH: Portal for sharing resources

<http://www.cuh.ac.in/ResourceSharingPortal/index.html>

Lab Facilities:

Most of the Departments have state-of-art lab facilities and some have initiated the process for the same. For details, Departmental sites may be visited.

CRITERION V - STUDENT SUPPORT AND PROGRESSION**5.1 Student Support****5.1.1 Scholarships and Financial Support**

	Name /Title of the scheme	Number of students	Amount in Rupees (Rs. In lakhs)
Financial support from institution	i) SC/ST Tuition Fee Waiver	402	32.85
	ii) UGC Non-NET Fellowship	39	52.50
Financial support from other sources			
a) National	JRF Fellowship	53	Amount deposited directly in students' account through DBT mode
	Odisha Scholarship	51	Amount deposited directly in students' account through DBT mode
	Post Matric Scholarship Schemes Minorities Cs	34	Amount deposited directly in students' account through DBT mode
	UP Scholarship	21	Amount deposited directly in students' account through DBT mode
	CSIR	16	Amount deposited directly in students' account through DBT mode
	PMS J&K ST	16	Amount deposited directly in students' account through DBT mode
	Rajasthan PMS	12	Amount deposited directly in students' account through DBT mode
	Central Sector Scheme Of Scholarships For College And University Students	11	Amount deposited directly in students' account through DBT mode
	Post Matric Scholarship For Students with Disabilities	10	Amount deposited directly in students' account through DBT mode
	Merit-Cum-Means Scholarship For Professional And Technical Courses Cs	5	Amount deposited directly in students' account through DBT mode
	Inspire Scholarship	4	Amount deposited directly in students' account through DBT mode
	Jharkhand PMS	4	Amount deposited directly in students' account through DBT mode
	Kerala Scholarship	4	Amount deposited directly in students' account through DBT mode
	Sitaram Jindal	3	Amount deposited directly in students' account through DBT mode
	Assistance to Scheduled Castes And Neo Buddhist Students	3	Amount deposited directly in students' account through DBT mode
	Assistance to Scheduled Castes and Neo Buddhist Students	3	Amount deposited directly in students' account through DBT mode
	Assam PMS	2	Amount deposited directly in students' account through DBT mode
	Scholarship for BSF Serving Personnel	2	Amount deposited directly in students' account through DBT mode
	Dr. S. Radha Krishnan Post-Doctrol Fellowship	1	Amount deposited directly in students' account through DBT mode
	Educational Scholarship Scheme For Army Personnel	1	Amount deposited directly in students' account through DBT mode
	Umbrella Scheme for Education of ST Children - Post Matric Scholarship	1	Amount deposited directly in students' account through DBT mode

	(PMS) for ST Students of Arunachal Pradesh		
	RGNF for ST Students	1	Amount deposited directly in students' account through DBT mode
	National Fellowship – OBC	1	Amount deposited directly in students' account through DBT mode
	POSE Scholarship	1	Amount deposited directly in students' account through DBT mode
	Post Matric Scholarship For S.T (M.P)	1	Amount deposited directly in students' account through DBT mode
	Prime Minister's Scholarship Scheme For Central Armed Police Forces and Assam Rifles	1	Amount deposited directly in students' account through DBT mode
	RGNF SC	1	Amount deposited directly in students' account through DBT mode
	Meghalaya Scholarship	1	Amount deposited directly in students' account through DBT mode
	Andhra Pradesh Scholarship	1	Amount deposited directly in students' account through DBT mode
	PM Scholarship	1	Amount deposited directly in students' account through DBT mode
	Haryana PMS	Still in Progress	Amount deposited directly in students' account through DBT mode
	National Fellowship for Persons with Disabilities	1	Amount deposited directly in students' account through DBT mode
	Bihar PMS	Yet to Open	
b) International	NIL		
5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,			
Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Remedial classes	01/07/2019	400	SOET, Central University of Haryana
Yoga Camp	02/10/2019 to 08/10/2019	194	NSS Units, with Panchayats of adopted Village Jant.
Language Lab	01/07/2019	173	AICTE, UGC, Central University of Haryana
Personal Counselling and Mentoring	09/09/2019	67	Department of Mathematics
Student Induction Programme	26/08/2019 to 30/08/2019	47	Department of Mathematics
Student Induction Programme 'DIKSHA'	22/08/2019	1359	All the Department of Central University of Haryana

5.1.3 Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed
2019-20	UGC NET/JRF Coaching Classes Under Equal Opportunity cell	20	Nil	4	Nil
2020	GATE	68	68	5	NA
2020	CAT	24	24	1	NA

5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	No. of grievances redressed	Average number of days for grievance redressal
NIL	N/A	2-3 days

5.2 Student Progression

5.2.1 Details of campus placement during the year

On campus			Off Campus		
Name of Organizations Visited	Number of Students Participated	Number of Students Placed	Name of Organizations Visited	Number of Students Participated	Number of Students Placed
Powerplast Pvt. Ltd., Bhiwadi	60	6	Integreon Managed Solution	72	2
SRF Limited-Chemicals Technology Group, Gurugram	42	8	Nandini Infosys Pvt. Ltd. Gurugram	462	1
The Lalit Hotel Chandigarh	5	2	Ministry of Defense, New Delhi	692	1
Park Plaza Hotel Chandigarh	5	3	Rohitash college, Ateli	27	1
Navotel Hotel, Vijaywada, Andhra Pradesh	5	1	Suraj College, Mahendragarh	24	1
			Rao Jairam college, Mahendragarh	14	1
			Agarwal & Modi Associates	54	1
			HDFC Bank	873	1
			The Grand Heera Resort, Neemrana	15	2
			Park Plaza, Bhatinda	13	1
			Hotel Taj, Kolkata	18	1

5.2.2 Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2019	1	M.Sc.	Statistics	Central University of Haryana	Ph.D
2019	2	M. Lib.	Library & Information Science	MDU Rohtak	Ph.D
2019	1	M.Sc.	Nutrition Biology	CCS Agriculture University, Hissar, Haryana	Ph.D
2019	1	M.Sc.	Biochemistry	Central University of Gujarat, Gandhinagar	Ph.D
2019	1	M.Sc.	Biochemistry	Central University of Punjab, Punjab	Ph.D
2019	1	M.Phil	Economics	IIT Roorkee	Ph.D
2019	1	M.Phil	Economics	IGU Meerpur	Ph.D
2019	2	MA Psychology	Psychology	IIT Mandi, Kurukshetra University	Ph.D
2020	1	M.Sc. Physics	Physics and Astrophysics	Delhi Technical University, Delhi	Ph.D
2019	1	M.A.	English & Foreign Languages	Delhi University	Ph.D
2019	2	M.Phil	Political Science	Central University of Haryana	Ph.D
2019	1	M.Phil	Political Science	Presidency University	Ph.D
2019	1		School of Education	Central University of Haryana	Ph.D
2019	1		School of Education	Haryana Agriculture University, Hisar	Ph.D
2019	2	M.Phil	School of education	Central University of Haryana	Ph.D
2019	1	M.A.	English & Foreign Languages	Jaipur National University	M.Phil
2019	1	M.A.	English & Foreign Languages	Jaipur National University	M.Phil
2019	1	B.Ed.	School of Education	Central University of Haryana	M.Phil
2019	4	B.Ed.	School of Education	Nalanda Open University	M.Sc.
2019	5	B.Ed.	School of Education	Central University of South Bihar	M.Sc.
2019	1	B.Ed.	School of Education	Central University of Moti Hari Bihar	M.Sc.

2019	1	B.Ed.	School of Education	Central University Sagar	M.Sc.
2019	4	B.Ed.	School of Education	Aacharya Naagarjun University	M.Sc.
2019	2	B.Ed.	School of Education	Central University of Haryana	M.Sc.
2019	2	B.Ed.	School of Education	Ranchi University	M.Sc.
2019	2	B.Ed.	School of Education	Vinoba Bhave University, Hazaribagh, Jharkhand	M.Sc.
2019	1	B.Ed.	School of Education	Central University of Jharkhand	M.Sc.
2019	1	B.Ed.	School of Education	Patliputra University	M.Sc.
2019	1	B.Ed.	School of Education	Utkal University	M.Sc.
2019	1	B.Ed.	School of Education	Kota University	M.Sc.
2019	1	B.Ed.	School of Education	Govt. PG College Narnaul	M.Sc.
2019	1	B.Ed.	School of Education	Central University of Rajasthan	M.Com.
2019	1	B.Ed.	School of Education	Central University of Haryana	M.Ed.
2019	1	B.Ed.	School of Education	Central University of Punjab	M.Ed.
2019	1	B.Ed.	School of Education	Nalinidevi Women College of Teacher Education, Bhubneshar, Odisha	M.Ed.
2019	1	B.Ed.	School of Education	Saraswati College Bhunana, Pt. Deen Dyal Upadhyay Uni., Sikar	M.A.

5.2.3 Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	No. of Students selected/qualifying	Registration number/roll number for the exam			
		Department Name	Student Name	Registration/ Roll No.	
NET	01	Biotechnology	Anita	DL0116209048	
	04	Commerce	Sakshi	HR0405209212	
			Kalpna	HR0405209327	
			Rahul	HR0405206687	
			Bhupender Yadav	HR0405206687	
	06	Chemistry	Aekta	120505	
			Garima Sethi	DL011620226	
			Suraj Singh	HR0416202322	
			Anish Yadav	HR0416200911	

			Nitesh Kumar	121057
			Jayanti	DL0116204479
	04	Economics	Shilpy Gupta	DL0105215361
			Ahsaan Ilahi	JK0205202110
			Shanu	UP120520115
			Wqar Ahmed	TA0105200404
	13	Environmental Studies	Lokesh Yadav	HR0405208654
			Sujata	HR0305203335
			Anjali Yadav	HR0305203354
			Sandeep Kumar	HR0305203373
			Sashi	HR0405208787
			Naveen Yadav	HR0305203322
			Nitin Kumar	HR0305203397
			Manik Gupta	UP0905206772
			Vikrant	DL0105245398
			Manoj Kumar	DL0105243725
			Surender	UP0905206772
			Surya Pratap Meena	HR0405208748
			Bijo Mathew	UP0905206813
	08	English & Foreign languages	Hemant Kumari	HR0405200191
			Subhendhu Rath	KL0405209138
			Tariq Mahmood	UP0205204265
			Vipul Yadav	HR0405205143
			Roshan B Karimpaniyil	HR0405205923
			Srekutty S	DL0105218207
			Sonam Khujuria	DL0105213605
			Rajbir Yadav	HR0405206031
	05	Geography	Tahir Rashid	JK02510535
			Tanisha Sharma	DL01532782
			Brahampal	RJ0605224134
			Nitish	HP0405200350
			Kavita	HR0405201270
	01	History	Hemant	HR0505207629
	04	Hindi	आकाश भारती	HR0405208501
			नवीन	RJ0205202556
			शालू	DL0105212662
			पूजा	HR0405204467
	01	JMC	Ankit Vaishnav	RJ0605246940
	01	Law	Naveen Kumar	HR0305201836
	06	Library Science	Suchita	HR0405201094
			Khusbhu Thakur	UP04503133
			Nancy	DL0105215248
			Udita Gupta	DL0105220326
			Bunty	HR0405201031
			Ramakant Daiya	RJ0605208511
	03	Management	Nisha Yadav	DL0105227662
			Gaurav Kumar	HR0405208401
			Gajraj	HR0405207152
	01	Mathematics	Sandeep	HR0416204632
	04	Microbiology	Abhishek	191620073888
			Danish	5130321873

			Ananya	5130318206
			Sonika	5130320303
	02	Nutrition Biology	Mrinal	5131519277
			Manika	PO0105200536
	02	Political Science	Manisha	HR05052055844
			Rahul Ranjan	UP0905206916
	02	Psychology	Pramjeet Singh	HR0705200402
			Gitanshu Chaudhary	RJ0605200667
	12	School of Education	Bheem Singh	HR04503617
			Nirupma Srivastva	DL0105211347
			Rahul Kumar	DL01515629
			Shabnam Aara	BR0605201863
			Bandana Kumari	DL01052111645
			Rekha Kadaiyan	RJ0605210443
			Deepika	HR0485202404
			Moh. Aarif Malik	JK0205203439
			Madhusmita Behra	DL0105211371
			Bharti Kumari	DL0105211110
			Shruti	DL0105201645
		Bahadur Lal	DL0105201385	
	02	Sociology	Narendra Singh	190520142357
			Kashmira Khanam	190520071045
Total - 82				
SET	-	-		
SLET	-	-		
GATE	13	Chemistry	Sumit Kumar	CY19S13031458
			Sarita Kumari	CY19S13009077
			Gaman Kumar	CY20S23034524
			Suraj Singh	CY20S23036166
			Raj Rani	CY20S23006042
			Manshu Chowdhary	CY20S23006450
			Nitesh Kumar	CY20S23027330
			Abhiruchi Yadav	CY20S23033172
			Praveen Kumar	CY20S23033218
			Annu	CY20S23049017
			Sanjeev Kumar	CY20S25030122
			Rahul	CY20S23027178
			Priya	CY20S23011066
	03	Statistics	Maneesh Kumar	ST20S33006487
			Sunil Machara	ST20S33015346
			Yogesh Kumar	ST20S36034132
	06	Computer Science & Engineering	Umesh Yadav	CS20S63006232
			Manthan	CS20S63028205
			Shubham Raghav	CS20S63027042
			Tarun	CS20S63004123
			Naval Kishore	CS20S63006384
			Akashdeep	CS20S67302055
	08	Microbiology	Danish	XL20S33027345
			Sonika	XL20S33006655
			Jyoti Aggarwal	XL20S33034652
			Arti Kumari	XL20S33033589

			Vishal Kumar Roy	XL20S33034523
			Saloni Bage	XL20S33027171
			Vinita Sharma	XL20S33004321
			Abhishek	XL20S33006601
	01	Nutrition Biology	Isha Gupta	XL20S33034361
Total - 31				
GMAT	-			
CAT	01	Computer Science & Engineering	Tarun	9049768
GRE	-		-	
TOFEL	-		-	
Civil Services	-		-	
State Government Services	02	English & Foreign Languages (HPSC)	Rekha Garg	60005
			Manju Yadav	61381
	01	English & Foreign Languages (Haryana Police)	Manisha Sharma	
	01	Political Science (PGT Lecturer)	Sushma Yadav	41300964
	02	Political Science (HPSC)	Rajan Tiwari	11552
			Poonam Kumari	11391
JRF	04	Biotechnology	Mona Yadav	DL0116204788
			Anita Yadav	DL0116203956
			Anjali Tanwar	DL0116202662
			Anand Kesari	328584
	03	Commerce	Swati	HR0405210966
			Gajender	HR0405210959
			Payal Goyal	HR04504656
	04	Chemistry	Sarita Kumari	DL0116200855
			Shreysi Banik	WB1016206723
			Gaman Kumar	DL0116206882
			Sanjeev Kumar	DL0116205607
	04	Environmental Studies	Pooja	DL0105238984
			Azad	HR0305203321
			Priyanka	DL0105239192
			Shijin Rajan	HR0405208774
	01	Library Science	Neha	HR0705200619
	01	Hindi	नीरज शर्मा	HR0405205099
	01	Physics	Shallu	HR0416203679
	01	School of Education	Rahul Yadav	HR0405202416
Total - 19				
Any Other (DST Inspire Fellowship)	01	Chemistry	Bhawna Swami	190594
Any Other (Assistant Professor)	02	Political Science	Swati Soam (Central University of Haryana)	
			Rahul Ranjan (Starex University, Gurugram)	
Any Other (CTET)	12	School of Education	Kunjika Sharma	123027064
			Jawar Singh	157006253
			Kumar Amarnath	112008275
			Nisha Yadav	133027499

			Jaya Keshri	116027663
			Suman Sharma	126023425
			Pawan	107055749
			Satyavir Singh	117007551
			Daminee Biswal	153021332
			Priyanka Kumari	133028776
			Krishna Murari Yadav	144000465
			Pritismita Behera	164007000

5.2.4 Sports and cultural activities / competitions organized at the institution level during the year

Activity	Level	Participants
Karate	All India University	5
Table Tennis	All India University	7
Volleyball	All India University	12
Kabaddi	All India University	12
Athletics	All India University	13
Chess	All India University	5
Badminton	All India University	5

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student
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5.3.2 Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

In accordance with the Central Universities Act, 2009, the University constituted a Students' Council for the academic year consisting of- i). Dean of Students' Welfare as the Chairman, ii). twenty students nominated on the basis of merit in studies, sports and extra-curricular activities; and (iii) twenty students elected by the students as their representatives.

Any student of the university has the right to bring up any matter concerning the University before the Students' Council, if so permitted by the Chairman, and he shall have the right to participate in the discussions at any meeting when the matter is taken up for consideration.

The Students' Council makes suggestions to the appropriate authorities of the University in regard to the programmes of studies, students' welfare and other matters of importance, in regard to the working of the University in general.

During the session 2019-20, the meetings of the Students Council were held on 31/01/2020 and 06/02/2020.

5.4 Alumni Engagement

5.4.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words): **NO**

5.4.2 No. of registered Alumni: **814**

5.4.3 Alumni contribution during the year (in Rupees) : **Nil**

5.4.4 Meetings/activities organized by Alumni Association : 05

First Alumni meet (Dept. level) was organized on 10.01.2016 in which 124 alumni registered themselves.

Second Alumni meet (University level) was organized on 03.03.2017 in which 117 alumni participated.

Third Alumni meet of Central University of Haryana (University level) was held on 27.02.2018 in which 213 alumni from different teaching departments participated.

Fourth Alumni meet of Central University of Haryana (University level) was held on 26.02.2019 in which 169 alumni from different teaching departments participated.

Fifth Alumni meet of Central University of Haryana (University level) was held on 27.02.2020 in which 191 alumni from different teaching departments participated.

CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT**6.1 Institutional Vision and Leadership****6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)****a. Constitution of the Standing Committee on Academic matters of the Academic Council:**

Academic Council of the University vide its Resolution No-39 of the 28th meeting has constituted a Standing Committee on Academic matters of the Academic Council to review the course structure, syllabi, scheme of examination and suggested readings etc. proposed to be put up for consideration of the Academic Council.

b. Constitution of Library Advisory Committee:

Academic Council of the University, in its 30th meeting, has constituted a Library Advisory Committee to:

- (a) exercise general supervision over the Central Library of the University, and all the other Departmental

Libraries of the University; (b) Frame Regulations for the management and use of the Libraries, subject to the approval of the Academic Council; (c) Allocate funds to various Departments, assess the requirements of the Library and other Libraries and frame budget to be submitted to the Authorities concerned; (d) Submit to the

Academic Council about the working of all the Libraries of the University annually; (e) Recommend to the Executive

Council about the creation of any new post in the Libraries; (f) Formulate and administer proposals Concerning the development of libraries of the University.

Sr. No.	Category	Name
1.	Chairman--Vice-Chancellor nominee	Prof. Rajesh Malik
2.	Pro-Vice-Chancellor	Vacant
3.	Registrar	Sh. J P Bhukar
4.	Finance Officer	Sh. Manoranjan Tripathi
5.	Dean of the Schools, including DSW	Dean, Academic Dean, Research Dean, Students' Welfare Dean, School of Basic Sciences Dean, School of Business and Management Studies Dean, School of Education Dean, School of Engineering and Technology Dean, School of Humanities and Social Sciences Dean School of Interdisciplinary and Applied Sciences Dean, School of Law
6.	A Senior most Professor from each of the Schools nominated by the Vice-Chancellor by rotation in order of seniority	Prof. Sarika Sharma
7.	Proctor	Prof. Rajesh Malik
8.	One Research Scholar –nominated by the Vice-Chancellor	Ms. Hemanshi, Ph.D. Scholar, Department of Microbiology
9.	One UG/PG Student – nominated by the Vice-Chancellor	Ms. Vedika, M.Sc. Physics, Sem.-II
10.	One External Expert --nominated by the Vice-	Prof. Shailendra Kumar, Head Department of

	Chancellor	Library and Information Science, University of Delhi, Delhi-110007
11.	Librarian--Convener	Dr. Santosh C. Hulagabali

c. Appointment of 17 Nodal Officers for action and follow-up on the Performance Parameters of the Tripartite

MoU (2020-21) signed between UGC, MHRD and CENTRAL UNIVERSITY OF HARYANA

S. No.	Performance Parameter	Name of the Nodal Officer
1.	Access Student In-take	Dr. Phool Singh , Associate Professor, Mathematics under School of Engineering and Technology
2.	Equity and Diversity	Dr. Yudhvir , Assistant Professor, Department of Sociology
3.	Quality : Strengthening Faculty	Dr. Parmod Kumar , Associate Professor, School of Education
4.	Academic Outcomes	Prof. Sanjiv Kumar , Professor, Department of English and Foreign Languages
5.	(A) Research	Prof. Satish Kumar , Professor, Department of Biotechnology
	(B) Others	Dr. Anand Sharma , Associate Professor, Department of Management Studies
6.	Amount of Research Grant	Dr. Gunjan Goel , Associate Professor, Department of Microbiology
7.	(A) Patents	Prof. Neelam Sangwan , Professor, Department of Biochemistry
	(B) Exceptional International Awards / Honours	Dr. Suneel Kumar , Associate Professor, Department of Physics and Astrophysics
8.	Co-curricular and Extra-curricular Awards (Sports, Extension activities etc.)	Dr. Aarti Yadav , Assistant Professor, School of Education Dr. Swati Chaudhary , Assistant Professor, Department of Physical Education and Sports
9.	Governance	Sh. Santosh C. Hulagabali , Librarian
10.	Finance and Expenditure	Dr. Ajeet Kumar Sahoo , Assistant Professor, Department of Economics
11.	Finance	Dr. Vikas Garg , Associate Professor, Department of Civil Engineering

6.1.2 Does the institution have a Management Information System (MIS)?

Yes/No/Partial: **Partial**

6.2 Strategy Development and Deployment

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

❖ **Curriculum Development**

The University pursues the vision of quality higher education by providing the best of learning opportunities to the students where curriculum forms the fulcrum of the teaching-learning activities. Aligned with creative and critical thinking, the curriculum of all the programmes of study is built on high expectations of students. It emphasizes relevance of content, innovative pedagogies and problem solving strategies, enabling the students to apply reasoning to justify

their thinking, suiting diverse needs of student community. It is developed through a collaborative approach where students, faculty and subject-experts participate in the exercise of devising a standard curriculum. The curriculum is guided by the principles of relevance, validity, joyfulness and rigorosity, for which industry partners are also roped in particularly in designing of the curricula of professional courses.

The scheme and Syllabi of following programmes of study has been revised w.e.f. Academic Year 2019-20:

Name of programme	Dates of revision
B.Ed.	18/02/2019
M.Ed.	18/02/2019
M.Sc.(Mathematics)	18/02/2019
Ph.D. (Mathematics)	18/02/2019
Ph.D. (Physics)	18/02/2019
B.Tech (EE)	18/02/2019
B.Tech (CE)	18/02/2019 & 14/01/2020
B.Tech (CSE)	18/02/2019
B.Tech (PPT)	18/02/2019
M.Sc. (Nutrition Biology)	26/06/2019
M.Sc. (Microbiology)	26/06/2019
M.Sc. (Biotechnology)	26/06/2019
M.Sc. (Biochemistry)	26/06/2019
M.A. (Sanskrit)	26/06/2019
M.Sc. (Yoga)	26/06/2019
Ph.D. (Education)	26/06/2019
Ph.D. (Biochemistry)	14/01/2020
Ph.D. (Physics)	14/01/2020
M.Sc. (Physics)	14/01/2020
MTTM	14/01/2020
B.Ed.	14/01/2020
M.Ed.	14/01/2020

Choice Based Credit System (CBCS) was implemented in all the UG/PG Programmes of Study w.e.f. 2015-16.

❖ **Teaching and Learning**

Remaining conscious of the fact that pedagogical practices determine the learning experiences and influence the learning outcomes, the university adopts quality improvement strategies in teaching-learning process through innovative pedagogies and engaging learning environment to ensure holistic development of students. The teaching-learning strategies are revisited and syllabus is revised at regular intervals to maintain and sustain the interest of the learners. The students are trained not only in the domain of their subject but they are also given opportunities to develop multidisciplinary understanding through Choice-based Credit System wherein the students have the liberty to choose the general elective courses of their choices. The University has even reviewed its teaching – learning strategies to deal with the challenges posed by corona pandemic.

❖ **Examination and Evaluation:** The implementation of E-Governance in the Examination is very essential keeping in mind the complexity and timely delivery of services to the students. As of now the branch is putting efforts in making automation in all the activities and following e-governance initiation have been undertaking:-

1. Student registration to subjects/credits for all the semester.
2. Examination form is fully online.
3. Result publishing and tabulation is partially automated but fully computerized.
4. Question paper setting is fully digital/online.
5. National Academic Depository is implemented.

6. Conduct of Examination and secrecy is done with
7. Barcoded answer booklet.
8. All the marks cards and degree certificate are having more than five latest security features.
9. Student record is maintained in soft copy.
10. Student request for service done via email.
11. All the fees are collected through e-mode/through bank.
12. Exam Hall tickets are issue online.

Few areas which requires e-governance.

1. End to End Automation of Examination cycle from filling of registration form to issue of degree certificate including entry of internal and external marks, printing of marks card etc.
2. Introduction of digital evaluation for technical programmes such as B.Tech.
3. Introduction of online on demand Examination using e-platform.

❖ **Research and Development:**

Some of the important quality improvement strategies pursued by the University in research and development include— adoption of UGC (Minimum Standards and Procedure for Award of M.Phil./Ph.D Degrees) Regulations, 2016 and UGC (Promotion of Academic Integrity and Prevention of Plagiarism in Higher Educational Institutions) Regulations, 2018; admissions in research programmes through Central Universities Common Entrance Test (CUCET); Annual Best Researcher Award for Faculty; provision of minimum residency period of two years for Ph.D programme; and zero tolerance against plagiarism and intellectual theft. The University provides financial assistance, in the form of Non-NET Fellowship, to all the research scholars who are not covered under Junior Research Fellowship. In addition, the facility to check thesis/dissertation/projects/papers for faculty plagiarism through Turnitin and individual user licences of Urkund plagiarism detection software for students are provided. Regular training programmes/workshops are organised to train researchers on writing effective research papers, undertaking research projects, etc.

❖ **Library, ICT and Physical Infrastructure / Instrumentation**

University Library is facilitating more number of digital resources that are accessible remotely that too at full-text level. For the effective use of the subscribed e-resources, the Library is organizing more number of user literacy programmes. This approach has increased the usage of resources. The ICT Section of the University is facilitating hardware and software that are necessary for teaching and learning processes. The virtual classrooms are effectively utilized for creating e-content and the same is being uploaded on the University website for wider use of resources.

Total area of the University:- 484 Acre (19,55,360 Sq. m.)

Total Built-up area :- 86,538 Sq. m. detailed as under:-

Sr. No.	Name of work	Name of executing PMC	Built up area (In sq. m.)	Storey
1	04 Nos. Hostel Blocks	CPWD	29688	G+2
2	30 Nos. Semi-Permanent Staff Quarters	CPWD	1527	Single storey
3	48 Nos. Type-II Staff Quarters	CPWD	4525	Stilt+6
4	24 Nos. Type-IV Staff Quarters	CPWD	4001	Stilt+6
5	Administrative Building	CPWD	8000	G+2
6	Academic Block-1	NBCC	13325	G+3
7	Academic Block-3	NBCC	12875	G+4
8	Academic Block-4	NBCC	11600	G+3
9	Vice-Chancellor's Residence cum Camp Office	NBCC	910	G+1
10	Shops & ATM	NBCC	87	Single storey

	Total	86,538	
❖	Human Resource Management: Pursuing the best practices in governance, the University believes in transparency, objectivity and democratic outlook while dealing with the issues relating to human resources. There is a well-organised structure of human resources defined by the statutes ordinances of the University. Similarly, the University has devised a well-defined mechanism for redressing the grievances of students, teachers and non-teaching staff. Ordinance XXVI of the University provides grievances redressal mechanism. The university has also notified the list of empanelled hospitals (vide notification no. CUH/2019/Estt. Sec./NT/188 dated 28th Aug. 2019) for the benefit of the employees and their dependents.		
❖	Industry Interaction / Collaboration: Focusing the importance of Industry Interaction/Collaboration in curriculum designing, training and placement, the University has entered into collaboration with industry partners and sector skill council, particularly for designing of professional courses and training of students. Better interaction between university and industry is the need of the hour. With the advent of globalization and opening up of Indian economy to the outside world, competition among industries has become stiff. There is an urgent need to prepare students for jobs in multinational companies, by exposing them to newer technologies and engineering methodologies. These objectives can only be achieved well by bridging the gap between industry and the academic institute. University-Industry linkages refer to the interaction between firms and universities with the goal of solving technical problems, working on R&D, innovation projects and gathering scientific as well as technological knowledge. Industry experts have also been nominated in the BoS of various departments offering professional courses for having relevant inputs on industry skills required to be imparted to students. <p>Some MoU(s) with various companies for skill training, internship and placement.</p> <ul style="list-style-type: none"> • Haryana Skill Development Mission, Government of Haryana • Relops Services Pvt. Ltd. • S.V Instruments Analytica Pvt.Ltd. • Mark Exhaust Systems Pvt. Ltd. • Hitech Enviro Consultants & Enginerring Pvt.Ltd • Deshwal Waste Menagement Pvt. Ltd. <p>Some companies of Linkage between Central University of Haryana and local industry:</p> <ul style="list-style-type: none"> • Nagarro Software Ltd. • AIP Techno Consultants Pvt. Ltd. • Godrej Properties Ltd • Fidesto Projects Pvt Ltd, Pune • Q-Catalyst, Gurugram • Unihorn India Pvt Ltd, Gurugram • G.D Built Tech Pvt Ltd, Gurugram • B L Gupta Construction Ltd Gurugram • Petrofac, Gurugram • DLF, Gurugram • Bridgecon, Infraconsultant Pvt Ltd • Prism Jhonson Ltd, Gurugram • Marathon Realty Pvt Ltd, Mumbai(Adani Realty) • L&T Delhi • Gawar Construction Limited 		

- Penam Laboratories Pvt. Ltd., Dharuhera
- Nitin Life Sciences, Poantasahib
- Zee Laboratories, Poantasahib
- Martin & BrownBioSciences, Baddi
- Curequick Pharmaceuticals, Karnal
- Zee Laboratories, Karnal
- Digital Vision, Kal-amb, H.P.
- Theon Pharmaceuticals, Solan
- Brawn Laboratories, Faridabad
- Unimax Laboratories, Faridabad
- Wang Laboratories Ltd., Delhi
- Nitin Life Sciences, Karnal
- I.D.P.L., Gurgaon
- Indovax Pvt. Ltd, Hisar
- Nector Life Sciences, Baddi
- Alive healthcare, baddi
- Sarthak Biotech, Karnal
- BelcoPharma, Bahardurgarh
- Ayurved, Panipat
- Ind-swift Labs, Derabassi
- Rishab Healthcare, Panchkula
- Gentech Healthcare Pvt. Ltd., Sonipat
- Alps Life Sciences, Sonipat
- Param Pharmaceuticals, Karnal
- C.F.C. cluster pharma, Karnal

Various MoUs has been signed by the University with Industry/Research Institutes during the Year 2019-20. The list of the MoUs is as under:

List of the Memorandum of Understanding (MoU) signed by the University

S.No	Details of the Institute	Year	Signatory Authorities
1	Deshwal Waste Management Pvt. Ltd	22.05.2019	V.P., Deshwal Waste Management Pvt. Ltd.
2	Hitech Enviro Engineers and Consultants Pvt. Ltd.	03.04.2019	Senior Project Manager, Hitech Enviro Engineers and Consultants Pvt. Ltd.
3	Consortium for Educational Communication (CEC)	02.07.2019	Chief Administrative Officer, CEC
4	National Agri-Food Biotechnology Institute (NABI)	30.08.2019	Dr. T.R. Sharma, Executive Director, NABI, S.A.S. Nagar Mohali (Punjab)

- ❖ **Admission of Students:** The University now offers 48 programmes of study under 31 departments and 7 Schools of Study with enrolment of more than 2600 students. Besides, the University Grants Commission has granted the permission for introduction of three new academic programmes, namely LL.B, M.Pharm and M.P.Ed. The University offers admission through Central Universities Common Entrance Test (CUCET). With quality parameters for the admission process in place, at the age of 11, the Central University of Haryana now boasts of being NAAC accredited Grade 'A' university, having more than 40 % of students from 25 different states other than Haryana. Also, the University has always been successful in maintaining encouraging enrolment of female students and there is a constant increase in the number of female students. The University's focus on the promotion of diversity, inclusivity, and outreach.

6.2.2 : Implementation of e-governance in areas of operations:

❖ **Planning and Development**

The University has implemented e-governance in all spheres of planning and development. All the

tenders are floated on University website and the University procures the required items from Government E-Marketplace (GeM), if available. E-governance strategies are used by various administrative sections to ensure the efficiency of delivery system.				
❖ Administration: All the administrative transactions are carried out through e-governance practices. The e-governance practices in administration include - online applications for recruitment, disclosure of all relevant information such as Statute, Ordinances, Academic and Administrative Structure, notifications, media reports, events, office orders and circulars, and facilities are made available on University website. Optimum implementation of e-governance strategies to reduce the use of paper is also in place. Online ordering of store items within University, fully automated library processes including online access of e-resources have resulted in the effective administration of the University affairs.				
❖ Finance and Accounts Finance and Accounts: TSA & PFMS is implemented in University as per UGC & MHRD guidelines.				
❖ Student Admission and Support: The University offers admissions through online counseling, and all the student-support facilities are displayed on the university website. The payment of course fees by the students is also in online mode only. The students can access all relevant information and facilities online by visiting the university website.				
❖ Examination: Examination and evaluation System very important activity and Central University of Haryana constantly assess the examination and bring desirable changes in examination system. During Covid-19 the University has conducted Remote Proctored online examinations for UG/PG Programme by changing the mode and pattern of Examination. The University has adopted following reform in Examination and Evaluation.				
<ol style="list-style-type: none"> 1. All the Examinations are completed within the time period provided in the Examination calendar of the University. 2. The result of Examinations are declared within 15 working day from the last date of conduct of Examination. 3. The Marks/Credits obtained by students through MOOC's, SWAYAM and GIAN are integrated into the system. 4. The credits earned by the vocational student through NSDC Authorized agencies are included in the students results. 5. The University is planning to introduce digital evaluation (on screen evaluation) in next academic session. 6. The question paper setting and evaluation is done by External as well as internal examiners for fair assessment. 				
6.3 Faculty Empowerment Strategies				
6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year				
Year	Name of teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
Nil				
6.3.2 Number of professional development / administrative training programmes organized by the University for teaching and Non-Teaching staff during the year				

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Non-teaching staff)
2019	One Day Workshop on “Integrated Approach to Education: Issues and Concerns Related to Draft National Education Policy 2019	-	25/07/2019 to 25/07/2019	129	-
2019	One day Workshop on “Nai Talim and Teacher Education”	-	03/09/2019 to 03/09/2019	30	-
2020	One Week Online Faculty Development Programme on “Development & Delivery of MOOCs and E – Content”	-	26/06/2020 to 01/07/2020	263	4

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

Title of the professional development programme	Number of teachers who attended	Date and Duration (from – to)	
National Conference on “Emerging Trends and Future Challenges in Chemical Sciences – 2020”	1	09/01/2020	10/01/2020
Seminar on ‘हिंदी का विश्व और विश्व की हिंदी’ by Rajasthan University, Jaipur	1	10/01/2020	11/01/2020
International Conference on Education by MSU, Baroda	1	20/01/2020	20/01/2020
National Consultative Meet on Transforming Teacher Education titled “Critical Role of School of Education”	2	20/01/2020	21/01/2020
Workshop (Confidential)	1	22/01/2020	24/01/2020
National Seminar on " राष्ट्रीय समाज - सुधार चेतना के निर्माण में हरियाणा की भूमिका (आर्य समाज के सन्दर्भ में)" by Arya Girls College, Ambala	1	24/01/2020	24/01/2020
Group monitoring workshop-ECRA Project	1	27/01/2020	27/01/2020
Workshop titled “Laws of Women, Children etc.”	1	28/01/2020	28/01/2020
Refresher Course in Social Sciences	1	28/01/2020	14/02/2020
Test Development Workshop	1	29/01/2020	31/01/2020
Two-Day Seminar titled “Science- with Lens of Scientific & Technology Terminology”	1	30/01/2020	31/01/2020
National Conference titled “Socio-economic Status of the Tribes in	1	31/01/2020	03/02/2020

the Dangs District”			
Refresher Course in Teachers Education	1	03/02/2020	15/02/2020
To attend Symposium on Draft National Education Policy, 2019 at the Department of Education, University of Delhi.	1	06/02/2020	06/02/2020
Refresher Course titled “2nd Computational and Mathematical Sciences”	1	07/02/2020	07/02/2020
National Conference titled “Experience of Development in India: Social Science Perspective”	1	07/02/2020	07/02/2020
Workshop titled “Open Educational Resources”	1	09/02/2020	16/02/2020
“Leadership for Academicians Programme (LEAP) 2020”	1	10/02/2020	15/02/2020
Workshop on "Progress report of DST sanctioned project"	1	13/02/2020	16/02/2020
National Conference titled “Methods & Applications of Geospatial Technology in Sustainable Development”	1	14/02/2020	14/02/2020
Conference titled “Science and Technology: Rural Development”	1	14/02/2020	17/02/2020
International Conference on "Contemporary Issues and Challenges to Polity and Governance in India: Emerging Paradigm Shifts & Future Agenda" by Government Mahindra College, Patiala	1	17/02/2020	18/02/2020
To attend Workshop on "Gender and Education" to be conducted by Gender and Education Resource Centre, Delhi	1	18/02/2020	18/02/2020
Orientation Course of the 16th National Youth Parliament Competition for Universities 2019-20	1	18/02/2020	21/02/2020
To Chair a technical Session in FDP on "Fostering Research Culture in Universities: Challenges, Opportunities and ways Ahead"	1	19/02/2020	19/02/2020
International Conference on " Innovative Advancement in Engineering & Technology" by JNU, Jaipur	1	21.02.2020	22.02.2020
International Conference on "Violence & Peace: Analysis to action" at M N S Govt. P.G. College, Bhiwani	1	24/02/2020	25/02/2020
National Seminar titled “Contemporary Indian Politics: Trends and Challenges”	1	26/02/2020	26/02/2020
Refresher Course "Peace, Non-Violence & Gandhian"	1	02/03/2020	14/03/2020
Short Term Course titled “Data Analysis Techniques for Advanced Learning using Smart PLS & R”	1	16/03/2020	18/03/2020
Refresher Course titled “Information & Communication Technology (ID)”	2	16/03/2020	28/03/2020
Seminar on "India Nearing 75: The Indian women today", Delhi University	1	24/03/2020	26/03/2020
Course on “Learning Physics Through Simple Experiments”	1	02/04/2020	10/06/2020
Neural Network and CNN	1	09/04/2020	13/04/2020
Cloud, Fog and Edge Computing	1	14/04/2020	18/04/2020
Latest Wireless & Computing Technologies	1	14/04/2020	18/04/2020
IOT	1	15/04/2020	19/04/2020
Managing online classes and co-creating MOOCS	1	20/04/2020	06/05/2020
Linux Applications in Engineering Education	2	27/04/2020	01/05/2020
Innovation program run by MHRD	1	28/04/2020	22/05/2020
Quantum and Energy Materials: Potential & Applications	1	04/05/2020	08/05/2020
Academic Leadership Enhancement in Technical Institutes	2	04/05/2020	08/05/2020
Research Oriented Project Work	1	11/05/2020	15/05/2020
Neural Networks & CNN	5	11/05/2020	15/05/2020
Nanomaterials and Devices	1	11/05/2020	15/05/2020
One week, FDP on "Entrepreneurship and Start-up Policies 2017"	1	11/05/2020	15/05/2020
Research Oriented Project Work	1	11/05/2020	15/05/2020
Moodle Learning Management System	1	12/05/2020	17/05/2020
Big Data Analytics	1	18/05/2020	22/05/2020

Artificial Intelligence	1	18/05/2020	22/05/2020
Advanced Construction Technology	4	18/05/2020	22/05/2020
One week FDP on communication and presentation skills	3	18/05/2020	22/05/2020
Role of Teachers and Educational Institutes in Unnat Bharat Abhiyan	1	18/05/2020	22/05/2020
One week FDP on "Big Data Analytics"	1	18/05/2020	22/05/2020
Thin films and their applications	1	18/05/2020	22/05/2020
Integration of Renewable Energy System Research Tools/Industrial Perspective	1	18/05/2020	22/05/2020
Leadership and Team-Work for performance Excellence	1	18/05/2020	22/05/2020
FDP: Management Skills for Professional Teacher Excellence	1	25/05/2020	29/05/2020
Evaluation & Settings of Question Papers	2	25/05/2020	28/05/2020
Smart Sustainable Cities	1	25/05/2020	29/05/2020
Augmented Reality (AR)/ Virtual Reality (VR)	1	25/05/2020	29/05/2020
Understanding Project Management Basics	1	25/05/2020	29/05/2020
Reserach Methodology and Tools , organised by ASRE	1	26/05/2020	30/05/2020
Operations Management	2	30/05/2020	04/06/2020
Recent Advances in Electrical Engineering (RAEE-2020)	1	3/06/2020	07/06/2020
Orientation Programme on "Faculty in Universities /College/Institutes of Higher Education" by Ramanujan College, University of Delhi	1	04/06/2020	01/07/2020
Emerging trends in Electronics and Communication Engineering	1	05/06/2020	10/06/2020
Refresher course on “Application of Nanoscience in Modern Day Research and Technology” (Two Weeks).	1	05/06/2020	18/06/2020
Waste Management	1	08/06/2020	12/06/2020
Programming Using MATLAB	1	08/06/2020	12/06/2020
Design, Development & Delivery of Online Course	1	11/06/2020	12/06/2020
Applications of IoT	2	16/06/2020	20/06/2020
Pedagogy of scientific writing, reporting and scholarly networks	1	19/06/2020	23/06/2020
Water Management and Organic Farming for Sustainable Development	1	22/06/2020	26/06/2020
Nanomaterials and Devices	1	22/06/2020	26/06/2020
Remote Sensing and its Applications in Engineering	1	22/06/2020	27/06/2020
Emerging Trends in Highway Engineering and Infrastructure Development	1	23/06/2020	26/06/2020
Entrepreneurship incubation and innovation	1	23/06/2020	29/06/2020
Two Weeks Refresher Course in "Engineering, Physical Sciences and Management	1	22/06/2020	04/07/2020
Development & Delivery of MOOCs and E-Content	30	26/06/2020	01/07/2020

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

Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime
144	187 (144 Regular + 38 Contractual + 3 D + 2 AC)	75	83 (Including Contract)

6.3.5 Welfare schemes for

Teaching	Medical, Faculty Development Programmes, Refresher Course and Orientation Programmes
Non-teaching	Medical, Skill Development Programmes, Training etc.
Students	Scholarships, Earn While You Learn Scheme, Grievances Redressal Mechanism, Merit – Cum Means Scheme, Remedial Coaching Classes for NET and

		Competitive Examinations, etc.		
6.4 Financial Management and Resource Mobilization				
6.4.1 Institution conducts internal and external financial audits regularly (with in 100 words each)				
<p>The Central University of Haryana has Internal as well as External Financial Audit regulatory system as per the laid down financial guidelines of UGC and Government of India. The University has, in principle, an effective Internal Audit system, ensuring the reliability of financial reporting, safeguarding the assets and compliance of the laid down rules and regulations. Internal Audit ensures accomplishing financial objectives i.e. proper utilization of funds/grants within the framework of university statutes/ordinances and GFR/other Government rules. Internal Audit has not only fortified the procedures but also helped in improving the transparent functioning.</p> <p>The University's External Financial Audit is under the purview of the Comptroller and Auditor General of India. All the Financial Accounts of the University, including transaction vouchers and balance sheets are audited by the CAG team annually spreading over a span of 15 days each. Observations, if any, brought out by the Internal and External Audit in improving the financial transactions, are taken care of and implemented according to the satisfaction of the audit, and the compliance of audit observation shown to the next audit for dropping the observations.</p>				
6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)				
Name of the non-government funding agencies/ individuals		Funds/ Grants received in Rs.		Purpose
NIL				
6.4.2 Total corpus fund generated: NIL				
6.5 Internal Quality Assurance System				
6.5.1 Whether Academic and Administrative Audit (AAA) has been done?				
Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Panel of Experts	Yes	Vice Chancellor
Administrative	No	-	Yes	Vice Chancellor
6.5.2 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)				
Not Applicable				
6.5.3 Activities and support from the Parent – Teacher Association (at least three)				
NO				
6.5.4 Development programmes for support staff (at least three) i. Grievances redressal mechanism ii. Provision of welfare schemes in tune of DOPT iii. Career advancement opportunities				
6.5.5 Post Accreditation initiative(s) (mention at least three) i. Annual Academic audit of all the departments of study ii. Annual Departmental Presentations iii. Inclusion of Industry experts in academic bodies, wherever required iv. Implementation of choice – based credit system in all UG and PG programmes				
6.5.6				
a. Submission of Data for AISHE portal : (Yes /No) Yes				

b. Participation in NIRF	: (Yes /No) Yes
c. ISO Certification	: (Yes /No) No
d. NBA or any other quality audit	: (Yes /No) No

6.5.7 Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from - to)	Number of participants
2019	Annual Departmental and Faculty Presentations	20/08/2019 to 21/08/2019	20/08/2019 to 21/08/2019	140
2019	Second Colloquium on “Sharing Resources and the Best Practices for Quality Higher Education and Research”	19/07/2019	19/07/2019 to 19/07/2019	67

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES			
7.1 - Institutional Values and Social Responsibilities			
7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)			
Title of the programme	Period (from-to)	Participants	
		Female	Male
Lecture by Mr. Milin Dutta, Founder and Director, (Gender equality) an NGO in Assam. and Gagandeep, Lawyer, Delhi High Court, Dr. T. Longkoi Khamniungan, Department of Sociology	19/02/2020- 1	90	110
International Women's Day with Untold stories of Struggle and Success, Resource persons, Ms. Kanta, Principal school for Blind girls, Narnaul, Ms. Jyoti Kanwar, International Player of Boxing, Dr. Renu Yadav, Patron: Prof. RC Kuhad, Vice-Chancellor	05/03/ 2020-1	43	41
Panel Discussion on “Rural/Marginal/Tribal Women versus Urban Women: Challenges to Women Empowerment”, Resource person, Dr. Rinu, Dept. of English and Foreign Languages	04/03/2020-1	32	39
Poetry Recitation on “Women Issues”	04/03/2020-1	32	39
Discussion on “Gender Equality and Women Empowerment” by students	04/03/2020-1	32	39
Lecture on “Gender Discourse” by Dr. Archana Pandey, “Research Fellow, NCERT, New Delhi and Dr. T. Longkoi Khamniungan, Department of Sociology	22/11/2019-1	20	30
Panel Discussion on “Health and Nutrition among Women”, Resource Person Dr. Aarti Yadav, School of Education	06/03.2020-1	35	30
Panel discussion on “Law, Women and Social Change- Issues and Challenges”, Resource person, Dr. Anju, Dept. of Law	04/03/2020-1	17	23
Panel Discussion on “Skills and Entrepreneurship: Role of Women”, Resource Person, Dr. Ravinder, Dept. of Commerce	03/03/2020-1	40	21
Panel discussion on “Rural Women in Agriculture”, Resource person, Ms. Renu, Dept. of Economics	03/03/2020-1	30	14
Extempore Competition on “Gender issues in Education”	01/08/2020-1	13	10
7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as: Percentage of power requirement of the University met by the renewable energy sources			

➤ Installation of solar power system for hostel blocks for 250 KW. Total electricity supply by DHBVN is 1235 Kw in the University and 20% of electricity is generated by solar power system.
➤ Installation of power pump for irrigation/gardening with treated water.
➤ Separate discharge and treatment for the waste generated from science lab to avoid contamination of waste water with hazardous chemicals.
➤ Installation of 3-R system in the campus and utilization of recyclable waste from the campus.
➤ Watershed management or rainwater harvesting to recharge groundwater

7.1.3 Differently abled (Divyangjan) friendliness

Items Facilities	Yes/No	No. of Beneficiaries
Physical facilities	Yes	19
Provision for lift	Yes	19
Ramp/ Rails	Yes	19
Braille Software/facilities	Yes	01
Rest Rooms	No	-
Scribes for examination	No	-
Special skill development for differently-abled students	No	-
Any other similar facility	Hostel	13

7.1.4 Inclusion and Situatedness

Enlist most important initiatives taken to address locational advantages and disadvantages during the year

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participating students and staff
2019	1	1	1/09/2019-1	National Nutrition Week	Health, Nutrition, Hygiene and Education	Department of Nutrition Biology, CUH
2020	1	1	18/02/2020 and 27/02/2020	National Science Day	Water Purification, Non-conventional Energy sources,	Department of Physics, CUH
2020	1	1	5/03/2020	International Women Day	Challenges faced by women players and visually-impaired	School of Education and Women Empowerment Cell, CUH
2019	1	1	05/09/2019	Teachers' Day celebration in 9 schools of Mahendergarh	Value Education	102

2019	-	1	1/10/2019	Rally on Pollution in 9 schools of Mahendergarh	Environmental Issues	102
2019	-	1	2/11/2019	Cleanliness Drive in 9 schools of Mahendergarh	Environmental Issues	102
2019	-	1	11/11/2019	National Education Day celebration in 9 schools of Mahendergarh	Educational Issues	102
2019	1	1	11/ 2019	Plantation Drive in 9 schools of Mahendergarh	Environmental Issues	102

7.1.5 Human Values and Professional Ethics

Code of conduct (handbooks) for various stakeholders

Title	Date of Publication	Follow up (maximum 100 words each)
‘गीता की दिव्य दृष्टि – उत्तम जीवन’ by Prof Ranvir Singh, Swami Dayanand Saraswati Chair, CUH, Mahendergarh	2 december 2019, Pub. in the book entitled ‘Making New India : Insight from BHAGAVADGITA’, ED. BY Manjula Chaudhary <i>et all</i> , Bharti Publications, New Delhi, pp. 192-211	How the teachings of Gita, if adhered to, can lead a life to the happy, healthy and prosperous state? It has been very lucidly addressed to in this paper. As Gita contains quintessence of spiritual knowledge and it embodies the basic elements of good life such as non-attachment and <i>samatva</i> , i.e. equal-mindedness; love, charity and purity of life; meditation and concentration; sacrifice and disinterested action; devotion, self-surrender and worship of the Divine etc. The goal of spiritual endeavour, according to Gita, is to liberate the individual from inner tension, conscious and unconscious conflicts so that his whole energy is set free for complete spiritual living. One lives in this world, performs all duties pertaining to his situation in life and yet remains free, non-attached and in tune with the Divine.

7.1.6 Activities conducted for promotion of universal Values and Ethics

Activity	Duration	Number of participants
1. Efficacy of <i>Shrimadbhagavadgita</i> in the Current Scenario (Corona-virus Covid-19 pandemic)	31/05/2020 (One Day)	400
2. Counseling- a <i>Bhagawadgita</i> Perspective	24/06/2020 (One Day)	1500

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

- Plantation drive in collaboration with Divisional Forest Office, Mahendergarh on July 19, 2019; 2000 trees were planted in collaboration with Division Forest Office, Mahendergarh in a mega plantation drive inaugurated by the Vice-Chancellor on 19 July 2020. Different native trees like neem, pilkhan, amaltas and sheesham were planted in the university campus.
- Plantation drive on 15 August 2019; the Vice-Chancellor launched plantation drive in campus where students and faculty planted 50 trees near Sports Complex of the campus.
- The speed limit of vehicles is restricted (30 KM/hour) in campus to reduce vehicular and dust pollution
- University has banned single use plastic in offices, residential complexes and hostels.
- The University campus has installed solar panels on the roofs of the buildings that helped in reducing the electricity bills. Use of renewable energy like solar power helps in conserving environment.
- An efficient water recharge system has been constructed in the campus to recharge the groundwater.
- University has put separate bins for the biodegradable and non-biodegradable waste collection.
- Recycled water from sewage treatment plant (STP) is being used for horticultural purposes (maintenance of

lawns, watering of trees etc.) to reduce use of ground water.

7.2 Best Practices

7.2.1 Describe at least two institutional best practices

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

- As one of the best practices, we have been able to declare results within 15 days of conduct of the end-semester examinations.
- We are one of the leading universities to upload the certificates and degrees of the students on National Academic Depository.
- CUH is one of the fifteen participating universities to conduct Central Universities Common Entrance Test (CUCET) for admission to various programmes of study.
- Robust students counseling mechanism with the provision of faculty advisor to each individual student.
- Online admissions, registration, counseling, cashless transactions dynamic website and optimum use of ICT in day-to-day administrative communications are being practiced for transparent Governance.
- Regular review and revision of syllabi with active participation of industry experts, wherever required.
<http://cuh.ac.in/StudentCorner.aspx>
- Speed limit of 30 Kms/h for movement of vehicles within campus.
- Uninterrupted power supply and Wi-fi facility.
<http://www.cuh.ac.in/wifi.aspx>
- Turnitin and Urkund Software for mandatory plagiarism check before submission of M.Phil./Ph.D. dissertation/thesis.
- Introduction of Annual Best Researcher Award on the basis of research contribution of the faculty in a year.
- University has started the practice of annual presentation of the departments and individual faculty for sharing of the best practices.
- Annual Academic Audit as the regular feature of the University.
- State of the art facility of Virtual Classrooms for development of e-content and MOOCs.
<http://www.cuh.ac.in/virtualclassroom.aspx>
- University Learning Management System (LMS) in collaboration with INFLIBNET.
<http://14.139.13.86/moodle/>
- E-learning resources with remote access for students and faculty. (From Library- Delnet, remote access etc.)
<http://www.cuh.ac.in/elearning/elr.html>
- GIAN programmes as the regular feature of the University.
<http://www.cuh.ac.in/Gian.aspx>
- Regular organization of webinars and online workshops on latest topics.
- Uploading of academic credentials of the students on National Academic Depository (NAD).

7.3 Institutional Distinctiveness

7.3.1 Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust. Provide the web link of the institution in not more than 500 words

Resources are the sources from which benefits are produced. Resources are the backbone of every economy. Resources are limited and, therefore, these need to be utilized to the fullest possible extent. Sharing is one of the features of utilizing resources. Effective management of resources is an essential task for managing different projects. Having the information about the availability of the resources and having those available at the right time for the activities play a vital role in managing the costs and smoothly executing the project activities. This

document contains the core ideas regarding initiatives taken for sharing of resources in higher education. The prime objective of resource sharing is to maximize the availability of material and services and to minimize expenses. In other words, the principle behind resource sharing has been the availability of maximum service at the minimum cost or the maximum service at the same cost. The prime objective of resource sharing is to create an environment in which universities can offer better services to facilitate quality higher education and research. It aims to make the resources of one university available to users of other university and vice-versa. The main objectives, therefore, are: increasing availability of resources, extending the accessibility of resources, diminishing cost, and promoting optimum utilization of resources. This compilation of possible strategies for sharing resources could be possible because of the insightful contribution made by all the participants from the universities located in the state of Haryana.

<http://www.cuh.ac.in/ResourceSharingPortal/index.html>

8. **Future Plans of action for next academic year (500 words)**

- Achieving the target of at least 250 students qualifying NET/JRF in 2020-21, for which University is committed to provide all possible guidance and coaching.
- University is committed to become a torchbearer for sister universities in the direction of encouraging all the teachers for development of MOOCs.
- Introduction of M.Pharm, M.P.ed. and LL.B(3 year) programmes.
- The University aspires to be the first among equals to implement the relevant provisions of National Education Policy 2020.
- Making New Hostel Blocks (one each for boys and girls) functional to facilitate the students.
- Making the Health Centre, Type-III and Type-V Quarters functional.