



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		CHITKARA UNIVERSITY, HIMACHAL PRADESH
Name of the head of the Institution		Dr. Varinder S. Kanwar
Designation		Vice Chancellor
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		01795661011
Mobile no.		9805965401
Registered Email		registrar@chitkarauniversity.edu.in
Alternate Email		vc@chitkarauniversity.edu.in
Address		Atal Shiksha Kunj, Atal Nagar, District Solan
City/Town		Barotiwala
State/UT		Himachal pradesh
Pincode		174103

2. Institutional Status															
University	Private														
Type of Institution	Co-education														
Location	Rural														
Financial Status	Self financed														
Name of the IQAC co-ordinator/Director	Dr. Parul Grover Mahajan														
Phone no/Alternate Phone no.	01795661011														
Mobile no.	9988003360														
Registered Email	coordiqac@chitkarauniversity.edu.in														
Alternate Email	registrar@chitkarauniversity.edu.in														
3. Website Address															
Web-link of the AQAR: (Previous Academic Year)	<a href="https://www.chitkarauniversity.edu.in/internal-quality-assurance-cell/">https://www.chitkarauniversity.edu.in/internal-quality-assurance-cell/</a>														
<b>4. Whether Academic Calendar prepared during the year</b>	Yes														
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://www.chitkarauniversity.edu.in/academic-calendar/">https://www.chitkarauniversity.edu.in/academic-calendar/</a>														
5. Accrediation Details															
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>B</td> <td>2.71</td> <td>2016</td> <td>25-May-2016</td> <td>24-May-2021</td> </tr> </tbody> </table>		Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	B	2.71	2016	25-May-2016	24-May-2021
Cycle	Grade					CGPA	Year of Accrediation	Validity							
		Period From	Period To												
1	B	2.71	2016	25-May-2016	24-May-2021										
<b>6. Date of Establishment of IQAC</b>	01-Jul-2013														
7. Internal Quality Assurance System															
<table border="1"> <thead> <tr> <th colspan="3">Quality initiatives by IQAC during the year for promoting quality culture</th> </tr> <tr> <th>Item /Title of the quality initiative by IQAC</th> <th>Date &amp; Duration</th> <th>Number of participants/ beneficiaries</th> </tr> </thead> <tbody> <tr> <td>Workshop on Challenges</td> <td>27-Jun-2018</td> <td>33</td> </tr> </tbody> </table>		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	Workshop on Challenges	27-Jun-2018	33					
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Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries													
Workshop on Challenges	27-Jun-2018	33													

and Remedies in Research

1

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**8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Chitkara University, Himachal Pradesh	NA	None	2019 0	0
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**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View File](#)

**10. Number of IQAC meetings held during the year :**

5

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

Yes

Upload the minutes of meeting and action taken report

[View File](#)

**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)**

Regular monitoring of teaching and learning activities of different departments/schools to ensure quality oriented academics.

Collection of quantitative and qualitative data from various departments/schools to evaluate their performance and provide feedback for further improvement for quality enhancement and sustenance in teaching, research, administration and extra-curricular activities.

Promotion of research and innovation based learning, industry-academia interactions, faculty development programmes, short term courses, workshops/conferences/seminars and MOOC courses for holistic development of students and faculty.

Strengthening and streamlining the regular feedback system for maintaining and enhancing quality of education.

Support and encouragement to faculty for undertaking quality research at the national and international level by means of presenting and publishing research papers, submitting research proposals and filing patents.

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**13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year**

Plan of Action	Achievements/Outcomes
<p>To sustain the quality in teaching, learning and research and make it part of university culture.</p>	<p>Curriculum development according to industry requirement to increase student employability. Workshops by external experts for strengthening IQAC process. Seminars conducted related to quality education and research. Annual Global Week organized wherein eminent faculty from across the world came to teach predetermined short module courses to our students offering an excellent platform for Internationalizing the student learning experience. Research grant received from government agencies and papers published in good quality journals. 10 Patents filed. Extra classes / Remedial coaching conducted beyond teaching hours. Book keeping of records at departmental level.</p>
<p>To strengthen mentor-mentee process.</p>	<p>Better monitoring of overall student progress and regular feedback to parents through mentors. Special counseling for the students who require additional attention at academics as well as personal level. Reinforced buddy system to enhance academic performance of students.</p>
<p>To increase industry- academia collaboration.</p>	<p>Organized industrial visits, pre-placement talks and expert lectures by prospective employers to make the student industry ready. Increase in industry- academia collaboration in terms of industry participation through guest lectures, board of studies, technology sharing and trainings. Industry established labs in the University to provide simulative work place. MOU signed with Dr. Reddy's in the current academic year. Regular industry feedback to keep the curriculum at the pace of latest industrial developments.</p>
<p>To conduct effective Internal Academic</p>	<p>Strengthening the formation of</p>

and Administrative Audit.	University Level Internal Audit Committee. Continual monitoring of academic processes and administrative mechanism. Regular feedback given to the schools/departments to implement required changes wherever applicable.				
To analyze the impact assessment of IQAC initiatives.	Analyses of actions taken by IQAC at the departmental level and to verify the impact thereof. Timely controlling of deviation, if any				
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<b>14. Whether AQAR was placed before statutory body ?</b>	Yes				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Name of Statutory Body</th> <th style="width: 50%;">Meeting Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Board of Management</td> <td style="text-align: center;">08-Jul-2019</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	Board of Management	08-Jul-2019
Name of Statutory Body	Meeting Date				
Board of Management	08-Jul-2019				
<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	No				
<b>16. Whether institutional data submitted to AISHE:</b>	Yes				
Year of Submission	2019				
Date of Submission	31-Mar-2019				
<b>17. Does the Institution have Management Information System ?</b>	Yes				
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	The University uses ERP portal called 'Chalkpad' for maintaining its Management Information System to streamline all academic and administrative processes and provide a common digitalized information platform to management, faculty, staff and students. The entire process from admission to graduation is digitalized. The list of operational Modules of Chalkpad along with brief description is as follows: <ul style="list-style-type: none"> <li>• Student Activity: includes student details, student leave record, and student's attendance/academic performance report.</li> <li>• Marks and Attendance: consists of features like daily attendance, test marks, student's detailed attendance report, attendance summary, attendance register, grade cards etc. Faculty</li> </ul>				

marks the daywise attendance of students for all courses which updates immediately and is accessible to students. The marks for internal evaluation components and consolidated grade card are accessible to the students as and when uploaded by the Examination department. • Messaging: provides the facility to faculty and administration to send message to students, upload resources (eg. assignments, tutorial sheets, power point presentations, course handout, ebooks, URL link etc.) for the students and record all interactions with students and/or parents regarding behavior, studies, attendance, indiscipline, appreciation etc. • Employee Activity: incorporates complete employee information, employee time table, online leave ledger, service book, feedback, biometric attendance report, and publication details. • Notices: includes all institute notices and details of events being organized by the University. • My Mentees: caters to the MentorMentee association and generates mentee's registration report and percentagewise attendance report. • Gate Pass: Student, who wishes to go out of the campus, can apply for gate pass. The same is approved or rejected by the concerned mentor after verifying the actual matter and informing their parents. This feature has been added for safety of students and to maintain record of their inout activity. • Appraisal: provides facility to fill accreditation form and apply for appraisal whenever applicable. Besides this, anyone can post their innovative idea in the 'Idea Box' available on chalkpad and that idea directly goes to the patent cell of the University. Patent Policy, PIE Form for filing patent and already Patented Ideas are also accessible. 'Academic Calender with the list of all the events and holidays is available on chalkpad. A link named 'Grievance Redressal Cell' is visible on chalkpad for posting any sort of complaint. The transport facility besides regular transport available can be availed by applying on the chalkpad. Students can access chalkpad for depositing their fee online, checking University notices,

view attendance and marks, obtain resources uploaded by faculty, fill feedback forms etc. Faculty can also apply for civil, electrical and IT support requirements in case of any fault or event.

## 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	Programme Specialization	Date of Revision
BE	B.E. (CSE)	Computer Science Engineering	05/06/2018
BE	B.E. (ECE)	Electronics and Communication Engineering	13/06/2018
BE	B.E. (CE)	Civil Engineering	05/06/2018
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BE	Computer Science Engineering	09/07/2018	Engineering Exploration - II (CS202)	09/07/2018
BE	Electronics and Communication Engineering	09/07/2018	Microprocessor and Microcontroller (EC109)	07/01/2019
BE	Civil Engineering	09/07/2018	Design of Steel Structures (CE303)	09/07/2018
BCA	Computer Application	09/07/2018	Introduction to IT (CA101)	09/07/2018
BSc	Hospitality and Hotel Administration	09/07/2018	Food Production - I (HMC6101)	09/07/2018
BSc	Pharmaceutical Chemistry	09/07/2018	Introduction to Pharmaceutical Sciences (BPL3101)	09/07/2018
<a href="#">View File</a>				

#### 1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BCA	Computer Application	09/07/2018
Integrated(PG)	Computer Application	09/07/2018
BSc	Hospitality and Hotel Administration	09/07/2018
BSc	Pharmaceutical Chemistry	09/07/2018
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Computer Science Engineering	09/07/2018
BE	Electronics and Communication Engineering	09/07/2018
BE	Civil Engineering	09/07/2018

### 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
Human Rights and Value	09/07/2018	360
NCC	09/07/2018	20
NSS	09/07/2018	56
Indian Heritage	09/07/2018	360
Cyber Security	09/07/2018	360
Numerical Ability Logical Reasoning	09/07/2018	381
Introduction to Computer Organization and Architecture	09/07/2018	20
Engineering Projects in Community Services (EPICS)	07/01/2019	433
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Computer Science Engineering	310
BE	Civil Engineering	101
BE	Electronics and Communication Engineering	22
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## 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?  
(maximum 500 words)

### Feedback Obtained

Feedback is an important cornerstone for quality enhancement and quality sustenance of academic programmes and research activities. Feedback received from different stakeholders is analyzed using different statistical methods to identify the gap in expectations of stakeholders and deliverables by the institution. With an endeavor to ensure outcome based learning and to enable the students to make a smooth transition from campus to corporate, feedback received from students, faculty, alumni and employers is utilized to make the changes in the curriculum. Based on the feedback received from the stakeholders, modifications and alterations are made in the course curriculum on a yearly basis. The changes that are agreed upon in the departmental meetings are further presented in the Board of Studies (BOS). These are then approved by the Academic Council after due deliberations and are notified by the Office of Registrar to the concerned departments for further implementation. The feedback from students and alumni helps the faculty to adopt innovative pedagogies for effective teaching-learning process. Regular industry feedback facilitates to keep the curriculum at the pace of latest industrial developments. The course contents are modified as per the modern industry trends and recent requirements. As per the suggestion received from the alumni and employers, University also motivated students and faculty to obtain professional certifications for competitive edge, employability, career advancement and holistic development. On the basis of the feedback received from the stakeholders, different events like seminars/conferences, workshops, faculty development programmes, cultural events etc. are also organized regularly for supplementary learning and development. The feedback from students, parents and faculty also assists in organizing various extra-curricular activities for students to create and enrich team spirit, leadership and management skills, communication ability besides recreation and rejuvenation. Thus, the suggestions and feedback is instrumental in helping the university to plan and implement policy decisions for framing a suitable system to assure and enhance overall performance of the students, faculty as well as the institution.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Computer Science	360	1735	340

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### 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 fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	1930	24	114	5	4

### 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
123	123	19	55	55	9
<a href="#">View File of ICT Tools and resources</a>					
<a href="#">View File of E-resources and techniques used</a>					

#### 2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

The University operates “Student Mentorship Cell (SMC)” which is responsible for allocating a faculty mentor to each and every student at least 7 days before the start of regular classes in a semester. The student mentoring system functions through the following process: • A faculty member is allocated as a mentor to a group of 15-20 students with a purpose to supervise the academic performance of mentees in terms of attendance and evaluation components. • In the first week of semester, mentors form a buddy list and each mentee is allotted a buddy (fellow student) based on CGPA, days-scholar or hosteler, place of residence and gender etc. to motivate slow learners and promote overall progress of students. • An official mentor-mentee meeting slot is fixed in the time table to ensure mentor-mentee interaction at least once a week for first and second year students and once a month for students of succeeding years besides casual meetings. • Mentors prepare minutes of meeting and action taken report of each mentor-mentee meeting for their records and provide information about the issues or suggestions of the students to SMC regularly. • Mentors maintain regular contact with parents of mentees to keep them updated about the performance and activities of mentees at campus. The record of communication with parents is maintained by the mentors and is also updated in the MIS-ERP system of the University. • Mentors regularly counsel the students and provide extra attention to students who are found involved in some undesirable activity. Mentors also keep the parents informed in case the situation demands. • Mentors also supervise the mentees to follow proper code of conduct, rules and guidelines in the University campus like uniform, use of mobile phone, cleanliness, discipline etc. • In case of observance of long period of absence (more than one week) of a student, mentors attempt to gather information from his/her class mates. If required, student and parents are asked about the student’s whereabouts and well-being telephonically and the same is also informed to the HOD/SMC. • After mid-semester tests, SMC circulates the list of students whose attendance falls below 75. Mentors then take undertakings from such students duly signed by their parents in the prescribed format. • Parents of students who are having any backlog are called for a meeting in the University with the mentor and the respective HOD for a thorough discussion to improve the academic performance of the students. In addition to this, a full-time professional counselor operates in the University who works in close collaboration with students, parents, teachers, mentors and management to positively influence the learning and emotional well-being of students. Student counselor ensures to assist students in fulfilling their potential and achieving professional goals while maintain emotional and mental stability. The student mentorship system followed by the University contributes in building student–teacher relationship more interactive and outcome oriented, thus, reducing communication gap and grievances besides redressing their issues like stress, exam anxiety, adjustment problems etc.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1969	123	16 : 1

## 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
117	123	Nil	37	25

### 2.4.2 – Honours and recognition 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
2018	Dr. Ashok Kumar	Associate Professor	Recognized Reviewer of ICTIEE

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## 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
BE	BE (CSE)	Semesters 1,3,5,7/All years	20/12/2018	18/01/2019

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

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
8	1920	0.41%

## 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)

<https://www.chitkarauniversity.edu.in/academic-program-guide/>

### 2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
ME (ME)	ME	Micro Electronics	2	2	100
ME (CSE)	ME	Computer Science Engineering	2	1	50
BE (CE)	BE	Civil	101	94	93.07

		Engineering			
BE (ECE)	BE	Electronics and Communication Engineering	22	22	100
BE (CSE)	BE	Computer Science Engineering	312	288	92.31
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## 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)

<https://www.chitkarauniversity.edu.in/student-satisfaction-survey/>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Promotion of Research and Facilities

3.1.1 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Mr. Rinku	UGC-NET	31/07/2018	University Grants Commission (UGC)
<a href="#">View File</a>				

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 the fellowship	Funding Agency
Research Associate	730	Department of Environment, Science and Technology (DEST), Shimla
Research Associate	240	Department of Environment, Science and Technology (DEST), Shimla
Research Associate	605	Department of Environment, Science and Technology (DEST), Shimla
Research Associate	730	Science and Engineering Research Board (SERB), Department of Science and Technology (DST), New Delhi
Research Associate	1095	Department of Science and Technology (DST), New Delhi
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### 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	Amount received during the year
Major Projects	730	Department of Environment, Science and Technology (DEST), Shimla	10	6
<a href="#">View File</a>				

### 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 Dept.	Date
2nd Annual IPR Workshop	Chitkara University Research and Innovation Network (CURIN)	19/02/2019
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#### 3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Swachhta - Cleanliness and Eco-Friendliness (Swachhta Campus Rankings)	Chitkara University, Himachal Pradesh	Ministry of Human Resource Development (MHRD), New Delhi	01/10/2018	Swachhta - Cleanliness and Eco-Friendliness (Swachhta Campus Rankings)
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#### 3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Explore Hub	Gaurav	Chitkara University Centre for Entrepreneurship Education and Development (CUCEED)	Cordds	IT Solutions	01/11/2018
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### 3.4 – Research Publications and Awards

#### 3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
School of Engineering and Technology	2

#### 3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if
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			any)
National	Department of Electronics and Communication Engineering	2	0.7
<a href="#">View File</a>			

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

Department	Number of Publication
Department of Computer Science and Engineering	17
<a href="#">View File</a>	

3.4.4 – Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
Weight Measuring Scoop	Published	307983	22/02/2019
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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Scientific research production of India and China in environmental chemistry: a bibliometric assessment	Arun Lal Srivastav, T. Kaur, L. Rani, A. Kumar	International Journal of Environmental Science and Technology	2019	0	Chitkara University School of Engineering and Technology, Chitkara University, Himachal Pradesh (India)	3
<a href="#">View File</a>						

3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Scientific research production of India and China in environmental	Arun Lal Srivastav, T. Kaur, L. Rani, A. Kumar	International Journal of Environmental Science and Technology	2019	69	3	Chitkara University School of Engineering and Technology, Chitkara University,

chemistry: a bibliometric assessment					Himachal Pradesh (India)
<a href="#">View File</a>					

### 3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	Nil	2	Nil	Nil
Presented papers	28	12	Nil	Nil
Resource persons	Nil	2	1	Nil
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### 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)
Chitkara University, Himachal Pradesh	Onsite Training for Company Capacity Building for JK, NER, Industrially Backward and Remote Areas	Quality Council of India (QCI)	164575
<a href="#">View File</a>			

#### 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
Chitkara University, Himachal Pradesh	Onsite Training for Company Capacity Building for JK, NER, Industrially Backward and Remote Areas	Quality Council of India (QCI)	164575	28
<a href="#">View File</a>				

### 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 participated in such activities	Number of students participated in such activities
Drug De-Addiction Campaign	NSS NCC Unit, Chitkara	6	229

University,  
Himachal Pradesh  
and Department of  
Police, Himachal  
Pradesh

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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	Number of students Benefited
Campus Cleanliness and Community Service	Swachhta Campus Rankings 2018	Ministry of Human Resource Development (MHRD), New Delhi	1969
Zero Discharge Campus	DL Shaw Quality Award	Quality Council of India (QCI), New Delhi	1969
Community Development	Unnat Bharat Abhiyan	Ministry of Human Resource Development (MHRD), New Delhi	1969
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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 participated in such activities	Number of students participated in such activities
Swachh Bharat Summer Internship	NSS Unit, Chitkara University, Himachal Pradesh and Government of India	Cleanliness Rally, Tree Plantation Drives, Village Survey for Awareness about Govt. Schemes	5	60
Drug De-Addiction Campaign	NSS NCC Unit, Chitkara University, Himachal Pradesh and Department of Police, Himachal Pradesh	Nukad Natak and Awareness Sessions	6	229
Unnat Bharat Abhiyan	NSS Unit, Chitkara University, Himachal Pradesh, IIT Delhi and Government of India	Water Conservation Rally, Paper Bags Distribution, Open defecation Survey, Tree Plantation Drives,	5	66



		Environment Awareness		
Ek Bharat Shresth Bharat	NSS Unit, Chitkara University, Himachal Pradesh and NSS Unit of Kannur University, Thavakkara, Kerala	Group formation, Session on cultural exchanges	2	140
Sustainable Development Goals of United Nations	NSS Unit, Chitkara University, Himachal Pradesh and Swarnmani Organisation, Chandigarh	Youth Parliament	3	110
Fit India Movement	NSS Unit, Chitkara University, Himachal Pradesh and Gram Panchayat, Kalujhanda	Cleanliness Campaign, Door-to-Door Awareness, Paper Bags Distribution	2	56
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### 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
Faculty Exchange	Dr. Varinder S Kanwar	Chitkara University	9
<a href="#">View File</a>			

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	Duration To	Participant
Industry-Academia	Internship/ OJT	Evive	01/09/2018	29/05/2019	Vijay Kumar Bagh
<a href="#">View File</a>					

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/Activities	Number of students/teachers participated under MoUs
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Dr. Reddys Laboratories Limited	16/10/2018	Academic Collaboration	40
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## CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

### 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
2500	2646.64

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
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### 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
KOHA ILMS	Fully	3.18.12.000	2009

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	31184	76687365	3395	1669003	34579	78356368
Reference Books	306	95780	485	238428	791	334208
e-Books	10496	41467	645	5000	11141	46467
Journals	80	103946	Nill	Nill	80	103946
e-Journals	5169	778450	3201	130000	8370	908450
Digital Database	1	11500	Nill	Nill	1	11500
CD & Video	1657	Nill	125	Nill	1782	Nill
Weeding (hard & soft)	2450	1102500	125	56250	2575	1158750
Others(s pecify)	16	41152	16	25000	32	66152
Library Automation	1	Nill	Nill	Nill	1	Nill

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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
Dr. Sita Ram	Engineering Mathematics	Impartus System	09/07/2018
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#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	780	16	1	16	2	40	7	1024	5
Added	0	0	1	0	0	2	3	200	0
Total	780	16	2	16	2	42	10	1224	5

##### 4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

1.2 MBPS/ GBPS
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##### 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
Virtual Interactive Lecture Facility	<a href="https://www.chitkarauniversity.edu.in/facility-for-e-content/">https://www.chitkarauniversity.edu.in/facility-for-e-content/</a>

#### 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
670	686.87	385	404.45

##### 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)

The infrastructure pertaining to physical, academic, and support facilities in the University are regularly augmented and maintained to provide maximum benefit to the students, faculty and staff. The budget is allocated every year for its maintenance on the campus. Different positions like Dean Student Affairs, Dean Support Services, Dean Administration, Assistant Director - Sports, Librarian, System Analysts, and Lab Technicians etc. exist in the organization structure to ensure regular maintenance and optimum utilization of the infrastructural facilities. The academic and non-academic departments work in close coordination with each other for adequate maintenance of furniture and equipments in the classrooms and laboratories. A faculty supervisor is assigned for every classroom and laboratory on rotational basis to monitor and supervise its daily utility and state. The state-of-art laboratories sponsored by the University and/or Industry Collaborators are well equipped with latest modern equipments/technology and software for conducting experiments and research and

are designated to specific schools and departments for their proper perpetuation. The University library is fully digitized furnished with computer terminals, wifi and large reading halls, and remains open for 12 hours in a day. The library committee works regularly to oversee the functioning of the library. Every school/department also has its own separate library, stocked up with number of books, journals, dissertations etc. A regular log of users' activity as well as inventory record of all the items (resources, equipments, etc.) is maintained in laboratories and libraries. The University has a dedicated Office of Information Technology wherein a team of IT experts provide requisite IT support for efficient consumption and upkeep of computers, internet, software, projectors and other audio-visual devices etc. installed in departmental and faculty offices, classrooms, laboratories, seminar/conference hall, auditorium etc. The Office of Support Services takes utmost care in maintaining the quality of services of cafeteria/canteen, hostel messes, laundry and transportation etc. The University has a dispensary with 24 hours availability of doctor and nurse for basic medical facilities and has an ambulance for meeting emergency requirements. The hostel committee functions for proper management of hostels in coordination with office of student affairs and office of support services. The University has well-resourced sportorium including a variety of indoor and outdoor games like table tennis, basketball, volleyball, badminton, football, cricket etc. and gymnasium with latest gym and exercise equipments. A procedural handbook consisting of standard operating procedures (SOPs) and rules and regulations have been framed for smooth operations, functioning and management of different physical, academic and support facilities. The Dos and Don'ts are placed in laboratories, library, corridors, hostels, sports complex etc. to guide students, faculty and staff ensuring effective utilization and maintenance of all infrastructural facilities.

<https://www.chitkarauniversity.edu.in/infrastructure/>

## 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
Financial Support from institution	Student Benevolent Fund Scheme (Fee Concession, Sibling Concession, Academic Scholarship, Hostel Subsidy etc.)	29	1013525
Financial Support from Other Sources			
a) National	Government Scholarship Schemes	12	468000
b) International	NA	Nil	0
<a href="#">View File</a>			

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 implemetation	Number of students enrolled	Agencies involved

Personal Counseling	09/07/2018	147	Student Counselor, Chitkara University, Himachal Pradesh
<a href="#">View File</a>			

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 for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Career Counselling and Activities	913	913	32	307
2019	Numerical Ability and Logical Reasoning	913	913	32	307
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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	Number of grievances redressed	Avg. number of days for grievance redressal
4	4	5

## 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
Infosys	288	66	Sebiz Infotech	1	1
<a href="#">View File</a>					

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
2018	1	Bachelor in Engineering	Department of Computer Science Engineering	New York University, USA	MBA
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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	Number of students selected/ qualifying
GATE	7
GMAT	2
CAT	4
GRE	5
TOFEL	3
Any Other	11
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#### 5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Emerging Technologies in Engineering 11	University Level	110
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### 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/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	IIT Mandi sports fest/ Athletics (gold)	National	1	Nil	1611981099	Ayush Guleria
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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)

The University has a well-structured Student Council in which members are selected following a transparent mechanism. These students organize numerous activities and are actively involved in academic and administrative bodies/committees keeping in view their holistic development (discussed below)

- Cultural and Technical Committee: This committee plans and organizes different intra-university and inter-university cultural and technical events like Annual Cultural and Technical Fests, Fresher's and Farewell party, Teachers' day, Independence Day, Republic Day, Engineers' Day etc. in the university throughout the academic year. Every event has an elaborative organizing committee where students work under the supervision of faculty members and are engaged in activities like website/app creation, managing logistics, stage designing and management, managing finance, marketing and promotions, database management, registrations, inauguration and reception, hospitality, decoration and discipline etc.
- Sports Committee: This committee schedules and organizes various sports activities/fests at intra-university and inter-university level throughout the year. It is responsible for encouraging students to increase their participation in sports activities and maintenance of sports facilities and arena.
- Hostel Committee: This committee functions with an aim to provide "Home away from Home" environment to the students staying in hostels and ensure that student support services are available to them seamlessly. It organizes several activities related to sports, technical,

literary, recreational, cultural etc. for the hostellers after the regular academic hours. The students participate in deciding the mess-menu, addressing the maintenance issues, insuring discipline and decorum, and thus aiding in the smooth functioning of the hostels. • Hobby/Professional Clubs: A number of hobby/professional clubs have been set up in the University comprising of a faculty co-ordinator and different positions filled up and managed by the students. These clubs are based on varied interests and/or professions like dramatics, oratory, dance, singing, photography, sports, engineering, mathematics etc. and are closely associated with professional societies like Computer Society of India (CSI), Indian Electronics and Telecommunication Engineers (IETE), Indian Concrete Institute (ICI) etc. These clubs are fully operated by the students wherein numerous activities and competitions are organized throughout the year. • NSS Team: The NSS unit of the University is a self-financing unit working with an aim to involve and encourage students for the betterment of the society. It carries out a large number of social and community development activities like awareness and sensitization drives, blood donation camp, medical check-up camps, cleanliness drives etc. under four separate clubs namely, Sankalp, Umang, Prayas and Unnati. • Students' Benevolent Fund Committee: Students with the highest CGPA in the second year becomes part of this committee which identifies the disadvantaged students to provide them fee concession. • Literary Activities: The editorial board provides students with a platform to explore their potential in the creative writing domain and gives them an opportunity to exhibit their talent. The students are involved in publishing monthly and annual newsletters and magazines. • IQAC Committee: A student representative in this committee actively contributes in decision making related to student affairs for enhancing and sustaining quality of education and research.

## 5.4 – Alumni Engagement

### 5.4.1 – Whether the institution has registered Alumni Association?

Yes

When the students walk out of the gates of Chitkara University after finishing their course, it's not the end of the journey, but only the completion of a part of it. Years later, they all return here, in different capacities, positions, and with dynamic thoughts, leadership, ideas, and a sentiment to give something back to the place where it all began for them. It is this sentiment that forms the very foundation of the Chitkara Alumni Network (CAN), a body that is over a decade old, and a bridge for thousands of Chitkarians worldwide, to connect with their Alma Mater, and each other. At CAN, we are weaving together generations of students across different professions and work cultures. Chitkara Alumni Association Network is a registered (Registration Number - U80904CH2019NPL042475) and functional society of Chitkara University Alumni. Main Activities and Contributions: • Organizing Alumni Chapters and Conclaves - Alumni chapters have been organized in major cities of India like Bangalore, Pune, Hyderabad, Delhi and Chandigarh. Alumni have also been part of on campus networking events like Campus Conclaves. These events provide platform to Alumni and University stakeholders to interact and connect with different peers irrespective of batch and course. • Expert Sessions by Alumni for current batches - Alumni comes back to the University to interact with students of current batches to share their expertise and exciting journey which springs inspiration and encouragement among the students. • Alumni engagement for Placement and Training activities - Alumni expedite University for placement activities by referral recruitment process. Chitkara University proudly invites Alumni working at senior HR positions from big industry giants and technical firms for recruitment drives. • Career Planning Assistance by Alumni - Networking sessions by Alumni makes students of current batches aware about the various opportunities available after graduation. Alumni guide them

to choose specializations/research areas/universities for higher studies/internship opportunities and update them about current technologies and trends of the industry. • Raising funds for the Institution - Alumni contributes to Chitkara Alumni Association Network for raising funds for the institution. • Database Management for Networking - Chitkara Alumni Network is responsible for Alumni database management. Centralized database is maintained with University's ERP (Chalkpad) system. Alumni can apply for different document support through our online portal enabling digital transactions. • Organizing Sports Activities for Alumni - Alumni are invited on campus for Sports Activities like T-20 cricket matches, Premier League etc. which not only improves the networking opportunities among alumni and students but also acts as a source of motivation and team spirit for the current batches. • Sharing Alumni Achievements/Awards through Social Media Platform - Chitkara Alumni Network proudly shares the achievements/awards of Alumni on social medial platforms like Facebook, Instagram and LinkedIn etc. Alumni connect back to the University to share their success story with their Almamater. This strengthens University's link with the Alumni and motivates our current students to learn from the journey and achievements of the alumni.

5.4.2 – No. of registered Alumni:

1884

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

Bangalore Alumni Chapter 24th November 2018 Pune Alumni Chapter 8th December 2018

## **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)

The University follows the Principle of Decentralization and Professional Participative Management approach in managing the institution. It innovatively strategizes in managing the academic and administrative matters by implementing delegation of authority down the hierarchy and incorporating the feedback and suggestions given by the employees wherever feasible. A number of committees have been made ensuring appropriate representation across all stakeholders for decision making and implementation of matters concerning policy formation, planning and administration, office management, academics and research etc. An adequate parity of authority and responsibility exist at all the positions across all the levels of the University's organization structure where all work together to achieve the common goal of quality education and research. Some instances for elucidation: • The Governing Body delegates the power to formulate academic and operational policies to the Academic Monitoring Committee headed by the Vice Chancellor in order to fulfil the vision and mission of the institute. • The middle level management is responsible for college administration to ensure smooth functioning of domains like admissions, account and finance, record keeping, evaluation and supervision, and maintenance etc. • The examination department is accountable for conducting the examinations throughout the year in efficient and transparent manner. • The annual financial budget of the University is prepared in the beginning of the academic year based on the budget proposals received from all academic and administrative heads. • The University follows a practice to organize Best Department Competition to motivate all departments and its members to



participate and perform to the best of their capability and potential in areas like innovation and research, faculty progression, events organization and team building activities etc. • A second in-charge is associated with every Dean/Head of a School or Department who is delegated to assure smooth operations in his/her absence as well as provide assistance in carrying out departmental level activities. • Representation is given to faculty members in various academic and administrative committees/cells for motivating, team-building, developing leadership skills etc. They are encouraged to organize events like seminars, FDPs, industrial tours, guest lectures, conferences etc. and strengthen their networking with industry experts. • Deserving faculty members are felicitated with Excellence Awards every year for their performance in domains of publications, patents, research grants and projects, innovation etc. • Every course offered in the University under the academic programmes is assigned a coordinator (faculty) for smooth execution and harmonizing with the faculty teaching the course across all sections. • Students get the opportunity to represent in various committees of IQAC, hostel, student affairs, technical/cultural clubs etc. They manage the functioning of student clubs and play active role as coordinators and organizing members in conducting co-curricular and extracurricular activities like Technical fest (Techelone) and Cultural fest (Algorithm). • Operational autonomy across all positions is provided to promote effective management and timely decision making. • Regular meetings of IQAC, heads/deans, committees and faculty are conducted to take suggestions of all members and take a rational decision based on consensus.

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

Yes

## 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):

Strategy Type	Details
<p>Research and Development</p>	<p>The Chitkara University Research and Innovation Network (CURIN) has been continuously augmenting infrastructure for facilitating core and inter-disciplinary research on the campus by setting up research centres which are involved in cutting-edge research and exploring new technologies to develop new materials, highly efficient solar devices, smart applications etc. to enrich research environment and contribute to the nation. The University organizes NOVATE, an annual innovation challenge in which real-life problems are identified to find innovative practical solutions promoting research. The university also provides financial support to departments to organize and faculty to participate in conferences and workshops at national and international level besides extending seed money and research allowances. The Office of Patent Facilitation Licensing Consultancy (OPFLC) of the University has an easy patenting policy under which all the expenses related to</p>

	<p>patent filing fees are borne by the university and 90 of the commercial rights of the patents rest with the inventors.</p>
<p>Examination and Evaluation</p>	<p>The University examination and evaluation is conducted according to the Academic Calendar and follows a two-tier process: Tier-1: Internal Evaluation comprising of sessional tests and quizzes, assignments etc. as decided by the faculty. In a semester, three sessional tests are conducted and result of best two sessional tests is considered to calculate the GPA. Tier-2: External Evaluation comprising of End Semester Examination. The office of Controller of Examination (CoE) supervises the entire process of examination and evaluation. Evaluation is carried out by the examiners who are allotted secrecy codes at earmarked date-time and central place. All answer sheets are assigned with secret codes to ensure blind evaluation. Total marks for each course are compiled and converted to letter grades which further get converted into SGPA and CGPA for each student. The results are declared within the pre-specified time by CoE and displayed on students' individual accounts at University's ERP portal by the CoE office. After publication of result, the student is entitled to apply to re-evaluation for which the University follows a transparent process.</p>
<p>Teaching and Learning</p>	<p>Student-centric approach is followed for teaching and learning process by adopting innovative practices like contemporary pedagogies, ICT-enabled learning, outcome-based learning, case study method besides traditional pedagogies and teaching methods supplemented with academic calendar, course handouts, course material and feedback system etc. The learning experience of students is enriched through application oriented assignments, group presentations and projects. The University focuses towards industry-oriented learning by offering professional courses and MOOCs, assigning integrated projects and conducting industrial visits for industrial exposure and professional development of students. The teaching-learning process is complemented with</p>

library e-resources and digital learning. The students and faculty are motivated to participate in group discussions, educational tours, workshops, conferences, competitions, development programmes etc.

Curriculum Development

The University has a systematic and institutionalized process of design, development and modification of curriculum. The Board of Studies (BOS) including internal and external experts design new core and allied courses, revise the existing curriculum, update the panel of examiners and forwards the same to Academic Council for approval. The updations and modifications in curriculum at bachelor, master and doctorate level is made keeping in view the recent developments in academia and industry. The MOOCs, guest lectures and industrial visits have been incorporated in the curriculum for providing supplementary knowledge, industrial exposure and professional learning to the students. The curriculum design and implementation focuses on outcome-based learning to ensure holistic development and employability of students.

Library, ICT and Physical Infrastructure / Instrumentation

The University has a well-established centrally air-conditioned library with seating capacity of 300. It has fully-equipped digital library with fully automated KOHA ILMs. It has independent library website for online access to journals, eBooks and learning resources. It has access to the latest computing equipment facility to telecast NPTEL and other lectures. The University is fully automated with Wifi facility across campus. It provides the most advanced online Student Information System for complete transparency and hassle free campus management. All the processes like admission, recruitment, purchases, examination, fee collection etc. are digitalized through University ERP system. The University has state-of-art infrastructure with well equipped classrooms, hi-tech labs and multimedia facility. All modern amenities are available in University's hostels, gymnasium, sports complex, wellness centre, dining areas and food courts. The University has a zero discharge green campus, fully secured under the

surveillance of 120 CCTV cameras. The University regularly solicits suggestions from students and staff to improve services, facilities and infrastructure.

Human Resource Management

The University follows a transparent recruitment and selection procedure as laid down by regulatory authorities for appointing faculty and staff. It has set high standards for imparting quality education and thus, induct faculty with higher academic profiles. The University has an adequate pool of qualified human resources in the form of regular full time faculty, adjunct faculty, visiting faculty, administrative staff and support staff. Every employee of the university is provided with skill-oriented induction at the time of joining. The University provides financial assistance to its employees to conduct and participate in research activities, conferences, workshops etc. It regularly organizes FDPs and STCs for training and development of employees. The University has instituted a scheme for award of excellence in teaching and research to encourage and acknowledge the contribution of faculty in academia and research through financial and non-financial means.

Industry Interaction / Collaboration

The University firmly believes that industry-academic interaction and collaboration is vital for the professional development of students. For this purpose, the University organizes regular industrial visits to bridge the gap between theoretical and practical learning and to provide hands-on experience of industry operations to students. The University has collaborations with industry giants like Amazon Web Services Educate and Red Hat for operating system platforms, applications, management products, training, and consulting services. Its collaboration with nVIDIA to set a dedicated lab for parallel and distributed computing helped to fetch a DST sponsored project in this domain. The collaboration with Infosys Limited offers several training programs to faculty members, research scholars and students. The University also connects its incubated start-ups with industry partners like JAARVIS Accelerator,

Chandigarh Angel Network, Xovian, IndianWeb2, Yellow Cursor, etc. for greater exposure and entrepreneurial knowledge. The academic and co-curricular events and programmes organized by the University also incite industry participation and collaboration.

**Admission of Students**

The University ensures wide publicity to the admission process through notification and advertisements in local and national newspapers as well as on the University website regarding admission schedule, eligibility criteria, admission brochure and application form. The admission process is executed by the Admission Cell which is entrusted with the role of preparation of admission notification, identification of entrance exam centres (if required) etc. A separate admission procedure is followed for Master and Ph. D. Programmes administered through Post Graduate Admission Cell and Departmental Research Committee. The queries of aspirants are handled telephonically through admission helpline numbers. A proper procedure for admission is followed i.e. fulfillment of eligibility criteria, entrance exam, group discussion, interview etc. depending upon the programme.

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

E-governance area	Details
<p><b>Planning and Development</b></p>	<p>The vision and mission statement of the University is uploaded on the website. The minutes of meeting and action taken report of Academic Council, Board of Management and Governing Body are emailed to members in addition to circulation of hard copies. The University uses E-mail and ERP portal as an additional means of communication for planning and organizing different events and activities. ICT is used for planning and development activities of the University to improve communication and create transparent system in time and cost effective manner.</p>
<p><b>Administration</b></p>	<p>The University exercises full supervision of all service modules through the ERP portal called Chalkpad. All important administrative and academic information including notices,</p>

circulars, time-table, attendance, marks, resource sharing, student activities (profile, leaves etc.), employee activities (profile, leaves, bio-metric attendance, testimonials etc.) mentor-mentee-parent interaction, support desk etc. is regularly uploaded on Chalkpad. All the processes are fully automated with 24x7 internet facility. All the employees have official e-mail IDs for easy and quick communication with free storage capacity on Google drive to save all important files and document safely. The data collection from different departments for requirements of mentorship, annual report, IQAC etc. is executed paperless through Google sheets, forms etc. The University campus is safe under 24 hour surveillance through 120 CCTV cameras. Besides this, WhatsApp groups have been created within class, department and office to share instant information and smooth functioning of operations.

Finance and Accounts

All the finance and accounts related activities of the University are digitalized. The fees and fine are paid by the students through ERP portal by means of net banking, debit/credit card etc. or through bank branch situated in the campus premises. All sorts of payments for purchases and procurements are electronically transferred to the bank accounts of recipients by the University. The salaries are credited to the bank accounts of the employees through Webtel software. The financial accounts of the University are maintained through the Tally software.

Student Admission and Support

The student admission process of the University is completely digitalized. All activities including availability of programme brochure, filing and submitting admission form, fee payment, on-boarding on campus etc. are executed electronically through university website. A special micro-site has been created for implementing student admission process. The registration of the students in the academic semester is done online through ERP portal. Anti-ragging form is also filled online by the students during the admissions.

Examination

The University has on boarded on NAD, Digilocker e-portals of Govt. of India. All degrees issued till date are

available on NAD and Digilocker. Online Examinations started for coding- based courses to refine the programming skills of the students. Online Payment gateway for certificates like transcript, migration and other relevant documents enabled on Chitkara University official website (<https://www.chitkarauniversity.edu.in/request-for-certificate/>), where students can apply and receive the documents with in a fixed time frame. Implementation of new modules related to re-appear fee payment and result compilation added in the existing ERP system (Chalkpad) for optimum utility. Automated summary sheet implemented in pre-exam section to meet the requirement of course learning objectives.

### 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
2018	Nandini Nayyar	International Conference on Data and Information Sciences, ICDIS	NA	3400
<a href="#">View File</a>				

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	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	Workshop on Higher Education Accreditation	Workshop on Higher Education Accreditation	07/12/2018	08/12/2018	50	20
<a href="#">View File</a>						

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	From Date	To date	Duration
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Indus Synchrotron Users Meeting (ISUM 2019)	2	27/03/2019	29/03/2019	3
<a href="#">View File</a>				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
37	37	6	6

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Yes	Yes	Yes

**6.4 – Financial Management and Resource Mobilization**

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

**AUDIT MECHANISM** The University has an effective mechanism for conducting internal and external financial audit. Internal audits evaluate our internal financial controls and accounting processes. It ensures compliance with laws and regulations and help to maintain accurate and timely financial reporting data. On the other hand, external audit extends the scope of audit towards finalizing the books of accounts and preparing financial statements strictly adhering to the accounting and auditing standards.

**INTERNAL AUDIT** The University has appointed a Chartered Accountant firm as Internal Auditors. The Internal Audit is carried out twice for a financial year. Each time, the audit lasts for about 25-30 Days. A team of qualified staff (CAs) from the office of Internal Auditor visit the University to perform the audit. The process of internal audit is very rigorous and it includes thorough checking and verification of all transactions that are carried out in the financial year. The audit team scrutinizes each and every bill, voucher, expense, payments etc. Every entry made in the books of accounts is tallied with its supporting bills/documents. The authorizations are checked. All the outstanding payments, advance payments, un-reconciled accounts etc. are checked and reported. If any discrepancy is found, the same is brought to the notice of the finance head through internal audit report. The report is then discussed in the next Finance Committee meeting and necessary instructions are passed to the finance head.

**EXTERNAL AUDIT** The University has appointed a separate Chartered Accountant firm as External Auditors. The external audit is carried out at the end of the Financial Year. The duration of external audit is about 10-15 days. A team of qualified staff (CAs) from the office of External Auditor visit the University to perform the audit. The scope of external audit extends towards finalizing of books of accounts and preparation of financial statements. Audit team performs the scrutiny audits, test checks and reports discrepancies. The report submitted by internal auditors is discussed and reviewed for removal of discrepancies in external audit. Once the audit is completed, Financial Statements like Balance Sheet, Income Expenditure A/c and Annexure are prepared. These audited financial statements are duly signed by the authorities of the management and External Auditor Firm. Then, the audited financial statements are presented before the finance committee for approval in the next meeting.

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	Funds/ Grnats received in Rs.	Purpose
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funding agencies /individuals		
Major H.S. Sidhu	120000	Contribution to Student Benevolent Fund Scheme
No file uploaded.		

6.4.3 – Total corpus fund generated

30000000
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### 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	Himachal Pradesh Private Education Institutions Regulatory Commission (HPPEREC)	Yes	IQAC and University Level Internal Audit Committee
Administrative	Yes	Himachal Pradesh Private Education Institutions Regulatory Commission (HPPEREC), Ministry of Human Resource Development (MHRD), Quality Council of India (QCI), External Agency for Financial Audit	Yes	IQAC and University Level Internal Audit Committee

6.5.2 – What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)

Not Applicable
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6.5.3 – Activities and support from the Parent – Teacher Association (at least three)

The University has established a strong Parent-Teacher Association through its Student Mentorship Cell (SMC) and in-house Student Counselor since inception. Our faculty takes on the role of mentors to the students and act as their friends, philosophers and guides, thus, providing the much needed emotional support in this fast moving and competitive world. Several initiatives are taken to support the Parent -Teacher association in the best possible benefits of the students and other stakeholders. Under this programme, a faculty member is allocated as a mentor to a group of 15-20 students (mentees) and keeps in constant touch with their parents, taking this parent teacher association to a next level. A mentor acts as a bridge between the parents and the university authorities and therefore, reduces the communication gap amongst stakeholders. A list of the mentors is allocated list of mentees to respective faculty member at least 7 -10 days before the beginning of each semester. 1. To keep a track

of the academic performance: The performance report of mentee is generated in the mid of semester (after first sessional test) which includes student attendance and performance in various evaluation components of all the ongoing courses. A mentor keeps a track of the academic performance of his/her mentee and informs the parents about the same so that the parents become aware of the performance of their ward in all the courses of the current semester. 2. To keep a track of the regular conduct and attendance of the student: The parents are well informed about the activities of their ward in the university and a track record is maintained for student conduct and attendance. • In case of observance of long period of absence (more than one week) of a student, a telephone call is made to check with the parent to know the where about of student and the status is further informed to the HOD/ Coordinator of the concerned Department/ School/ SMC. The leave application of the student is granted by mentor only after a telephonic verification from the parent. • In case of involvement of student in any misconduct or undesirable activity, mentor counsel the student and also inform the parents in a very humble manner about the same, in case the situation warrants. • If the student brings any laurel to the university, the same is also intimated to their parents by the mentor to make them feel proud of their ward. 3. Parent Teacher Meet: To enhance the performance of weak students in the most efficient manner and taking timely remedial actions, the parents of students of all batches having any backlog are called for a meeting with the mentor and the respective head of department. A thorough discussion is carried out in order to improve the academic performance of their ward with mutual efforts.

#### 6.5.4 – Development programmes for support staff (at least three)

- Skill up-gradation Programs (Computer Literacy, Managerial Skills, Team-Building, Communication Skills etc.) - Sports and Recreational Activities (Physical Training and Sports events etc.) - Health Counselling Programs (Personal Hygiene, First-Aid, Regular Health Check-ups, Mental Well-being, Attitude and Behavior etc.) - Training on Campus Security and Safety Measures (Fire-Fighting, Electrical Appliances, Premises Security etc.) - Awareness Campaign for Transport System (Safety Measures, Documentation, Traffic Rules etc.) - Welfare Programmes - Training on Inventory Management (Maintenance of Records and Physical Inventory etc.)

#### 6.5.5 – Post Accreditation initiative(s) (mention at least three)

- Introduction of Excellence, Research and Departmental Awards - Transition from traditional academic university to research and innovation oriented university - Strengthening of Chitkara University Research Innovation Network (CURIN), Intellectual Property Rights (IPR) Cell, Centre for Entrepreneurship Education and Development (CEED) - Strengthening of University IQAC

#### 6.5.6 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
d) NBA or any other quality audit	No

#### 6.5.7 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	Workshop on Challenges	27/06/2018	27/06/2018	27/06/2018	33

## 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	Period To	Number of Participants	
			Female	Male
Think equal, build smart, innovate for change	08/03/2019	08/03/2019	70	35
Free Medical Camp for Women	08/03/2019	08/03/2019	70	35
Debate Competition on Women Empowerment	30/03/2019	30/03/2019	35	30
Expert Talk on "Train Yourself to Get Hired"	13/02/2019	13/02/2019	80	70
NSS Show Case	13/10/2018	13/10/2018	20	18
Run for Unity	31/10/2018	31/10/2018	18	22
International Women Day	08/03/2019	08/03/2019	70	35

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

Beyond effective education system, the University has a zero discharge environmental friendly campus where students and staff are encouraged to be responsible citizens and contribute for a clean and healthy nation. The initiatives adopted by the University towards Swachh Bharat, Environmental Conservation, Sustainable Development and Alternate Energy include:

- Effective management set-up for regular monitoring and maintenance of the campus and surrounding areas
- Separate bins for dry and wet waste disposal
- Sewage Treatment Plant (STP) for treating waste water which is reused through double plumbing technique in horticulture
- Disposal of roof top rain water in Rain Water Harvesting pits
- Vermin Compost Plant and Organic Pits for processing kitchen and garden waste
- Organic Composting using water wastes from vermin compost plant to generate pesticide
- Waste Paper Recycling Plant on campus to recycle waste paper and convert it into productive office stationery
- Safe disposal of bio-medical waste
- Solar Power Plant for producing 320 KW solar power (on-grid) along with Solar water heaters in hostels with capacity of 21000 liters per day and Solar Photovoltaic Street lights within the campus
- Installation of LED Lights
- Modernized kitchens, messes and housekeeping resources
- Mechanised Laundry
- Hydroponic Farming with production of over 18 kg of vegetables per day
- Nursery with different varieties of plants
- Maintenance of green belt through regular Tree Plantation Drives within and in

vicinity of campus • Clean up of Aquatic Reservoirs nearby the university areas  
 • Regular conduct of Environmental Sensitization Programmes and Cleanliness Drives for students, staff and residents of nearby areas to increase awareness regarding personal and community hygiene, eradication of open defecation and manual scavenging, waste disposal mechanism, recycling of waste, paper recycling, hydroponic farming, rain water harvesting etc. • Energy observant buildings planned to reduce consumption of electricity in terms of light and air efficiency through least usage of air conditioners and lights • Paperless operations by adopting digital mode of communication through University ERP-Chalkpad and E-mail By adopting energy conservation methods, the University saves approximately 27 percent i.e. 325 KW energy out of total load of 1195 KW by using renewable energy sources.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nil
Provision for lift	Yes	Nil
Ramp/Rails	Yes	Nil
Rest Rooms	Yes	Nil
Scribes for examination	Yes	Nil
Special skill development for differently abled students	Yes	Nil
Any other similar facility	Yes	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	1	1	20/07/2018	2	Two Day Camp for Students from Villages	Awareness, Sensitization and Literacy	60
<a href="#">View File</a>							

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Anti Ragging Policy	13/07/2018	The University has always believed in maintaining and providing a healthy and congenial environment for the holistic growth of students. We believe that Ragging is unsocial,

		<p>illegal and thus, is completely banned in the University as per law. In this regard, at the time of registration in a semester, every student of the University is compulsorily required to submit his/her Anti Ragging Affidavit attested by notary (OFF-LINE) along with an undertaking through Aman movement (ON-LINE). Further, an anti-ragging committee comprising of University officials and sub-division magistrate (SDM Nalagarh, Distt. Solan) functions in the University to curb any such incidents that promotes ragging.</p>
<p>Examination Committee</p>	<p>10/09/2018</p>	<p>To streamline the existing examination system, following modification/reforms have been introduced. • The University on-boarded Digilocker e-portal of Govt of India. All degree certificates issued since inception uploaded on Digilocker for the purpose of e-verification of documents. • To save time/ effort and to improve the existing services to students/alumni, the online payment gateway system along with the document tracking and issuing mechanism optimized on university website (<a href="https://www.chitkarauniversity.edu.in/request-certificate/">https://www.chitkarauniversity.edu.in/request-certificate/</a>). • Proctored online theory examinations conducted on various platforms e.g. Co-cubes, AMCAT, E-box etc. • The existing policy for students with benchmark disabilities modified in as per the UGC guidelines.</p>

Service Book	02/07/2018	<p>With an aim to communicate Management's philosophy and goals to the employees, the code of conduct is published in the Service Book. Its objective is to lay down a uniform policy for all the employees with a view to minimize the use of discretionary powers and reduce procedural delays and hold-ups. The employees at all levels are expected to maintain absolute integrity and dedication, work with high standard of initiative and efficiency, and conduct themselves in an exemplary manner so as to enhance the University's image. They should abide by law and follow highest ethical and professional standards.</p>
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7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
AICTE sponsored 3 days FDP on Student Induction	16/07/2018	18/07/2018	62

[View File](#)

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

The University has a zero discharge campus environment friendly campus. A number of initiatives have been adopted by the University which have been categorized below:

- Innovative Technology for Solid/Liquid Waste Disposal
- Waste Paper Recycling Plant on campus to recycle waste paper and convert it into new papers, file covers, sheets, note pads etc.
- Separate bins to segregate dry and wet waste, where the frequency of the garbage clearance is twice a day.
- Kitchen waste is processed in Vermin Compost Plant. Weeds, leaves and other garden waste are deposited in organic pits for generation of compost.
- Liquid waste generated from washrooms, kitchen, laundry etc. is treated in the Sewage Treatment Plant (STP) inside the campus.
- The Treated wastewater coming from STP is reused through double plumbing technique in horticulture.
- Organic pesticide pit collects the residual water from Vermin Composting Plant- which is used as pesticide.
- Disposal of roof top rain water in Rain Water Harvesting pits.
- Waste that cannot be treated or reused in the University is placed in the Garbage Disposal Bins installed by HIMUDA near the University.
- Biomedical waste and lubricating oil coming out from generator sets are being collected by the vendors approved by government of Himachal Pradesh.
- Greenery and Horticulture: The University has dedicated team of horticulturist and gardeners to upkeep the greenery and landscaping in and around the campus, which covers more than 70 green area.
- Over 3000 trees have been planted within the campus and equally around the University locations to

improve air and noise environment. • In-house nursery for growing plants further used for tree plantation drives and for gifting. • Hydroponic Farming with production of over 18 kgs of vegetables per day. • Adequate provision for watering through sprinklers and treated water from the Sewage Treatment Plant is used in horticulture. • Protection of the saplings is done through organic pesticides and compost prepared in-house. • Plant markers indicating nomenclature, species information is displayed at the designated spots. • Pollination of many flowering plants, thus increasing the yield of certain crops through Bee Keeping on campus. • Renewable Energy through Solar Power • The University has a Solar Power Plant for producing 320 KW solar power (on-grid). • Solar water heaters in hostels with capacity of 21000 liters per day. • Solar Photovoltaic Street lights within the campus. • Environment Conservation Initiatives: Various activities are organized on regular basis within and in vicinity of the campus to contribute to a clean and healthy environment like: • Eradication of open defecation • Conversion of insanitary toilets into pour flush toilets • Eradication of manual scavenging • Awareness about healthy sanitation practices through behavioral changes, sanitation and public health programs. • Scientific processing, disposal reuse and recycling of Municipal Solid Waste

## 7.2 – Best Practices

### 7.2.1 – Describe at least two institutional best practices

Practice I (a): Entrepreneurship Development In the modern world, students are keen to experiment and start their own ventures where they can apply their skill-set and decisions, and fulfill their dreams of owning an enterprise. The start-up culture is also developing in the country with a number of schemes being implemented by the government to promote, nurture and support entrepreneurship development. Keeping this in view, the Centre for Entrepreneurship Education and Development (CEED) of the University was set up with aim to develop entrepreneurial mind-set and skill-set among the students, create awareness and impart education about entrepreneurship, identify interested students who have potential to launch their start-ups and contribute in the socio-economic development of the country by making students job creators and not job seekers. CEED takes series of initiatives and brings up numerous events every year to provide an opportunity and a platform to the students to fulfill their dreams of start-ups. After joining the university, students are given prospect to choose entrepreneurship as a subject in order to procure an in-depth knowledge and understanding about the concept. They undergo several modules through regular classes, master classes, boot camps, webinars, presentations, idea pitching, workshops, mentor-mentee series etc. Students from different streams work in groups which creates an interdisciplinary learning environment to discover and brainstorm revolutionary ideas. Through University's connections with the industry and entrepreneurs, CEED provide opportunities for linkages, support, assistance and mentorship in domains of technology, market, finance and law to the budding entrepreneurs, thus, strengthening their idea, learning, skill-set and network, and supply platform to pitch ideas for acceleration, proto-type development, funding and collaboration through its incubator named 'Explore-Hub'. The activities organized by CEED nurture budding entrepreneurs in multiple aspects, develop entrepreneurial aptitude and skills, and help in assessing market trends. They learn to identify and apply different approaches to a life problem and provide best solution to it through their innovation and creativity for the benefit of the society. The establishment of start-ups by University students motivates other students to take risk, innovate and fulfill their dream. The initiatives adopted by CEED benefits students from diverse socio-economic backgrounds by promoting their unconventional talents and skills, and giving them platform to explore their full potential and achieve success. Practice I (b): Seed Funding

- Financial Support to Start-ups Seed funding is required by the budding entrepreneurs to reach prototype or commercialization stage with a valid proof of concept. Lack of finance is one of the major problems faced by the budding entrepreneurs today. The start-ups are unable to access finance from government schemes and angel investors either due to lack of awareness or non-fulfillment of essential requirements. Thus, CEED provides seed funding to the entrepreneurial ideas of budding entrepreneurs who genuinely wish to convert their innovation into successful start-ups. For this, the students are first required to register themselves as CEED Members and learn about concepts of entrepreneurship and participate in Entrepreneurship Development Programs (EDPs). Then, students submit their Business Idea/Plan/Project Proposal having potential business opportunity and get opportunity to pitch and present their ideas to the panel of experts. The proposals are scrutinized on certain criteria and shortlisted for possible support from CEED. Based on idea validation, the eligible students/teams earn a grant of up to Rs. 2 lakh. The grant is given in installments based on the milestones achieved. The purpose of the small dose of assistance is to support students of the University to try out their innovative ideas (processes and products) at the laboratory or workshop stage and beyond (to the extent possible) and to carry forward the idea from its mere conception to know-how and then to do-how stage. The students/teams also get a chance to apply to CEED for assistance in terms of space at its incubator 'Explore Hub' and mentoring services etc. If the students need further support and funding from CEED to develop hardware design /prototype/minimum viable product (MVP), then, they need to present their proposal before the CEED committee. The committee decides about the nature and quantum of support to be provided to such projects purely on the basis of merit and viability of the idea. Once the idea is ready to be successfully commercialized, students create a campus company and form a founding agreement between the involved parties. Afterwards, start-ups register their company with Registrar of Companies, apply for company's PAN card and open a current account in a bank for financial transactions for further operations. CEED also create awareness regarding different sources of finance available for entrepreneurial ventures and provide linkage with industry investors, angel investors and venture capitalists etc. for fulfilling the future financial needs of the start-ups. The students are educated about risk management and financial management to help them in developing strategies for managing cash flows. They gain valuable early stage operating experience during graduation which facilitates them to progress in professional life. The financial support extended by CEED benefits students having viable innovative idea and entrepreneurial skills but facing financial constraints to establish their start-ups. Practice II (a): Science, Technology, Engineering, Arts and Maths (STEAM) School STEAM School designed and run by Chitkara University Research Innovation Network (CURIN) follows an approach to learning that uses Science, Technology, Engineering, Arts and Mathematics (STEAM) as access points for guiding student's critical thinking, creativity, brainstorming and innovation. It is an important methodology particularly for scientific disciplines because the next generation students need to develop their communication skills through both traditional means of writing and speaking, as well as more artistic means of expressing their ideas. The main objectives of this practice are to impart knowledge and develop skills in students for better employability and promotion of entrepreneurship by following integrated-multidisciplinary approach for their holistic development and provide training, support and guidance to students across different streams for their personal growth contributing to national development. The activities of STEAM School do not offer any credits but impart essential skills, required to instigate, breakthrough and shape new ideas. It operates on pre-determined days during entire academic year in evening hours from 4:30 pm to 6:30 pm. Hostel accommodation is offered to the day scholars as per the requirement. Students have a choice to enroll in any number of courses



by referring to time table and booking slots as per convenience. Each course is designed for approximately 10 hours and completed within a week. Some of the courses offered were based on themes like Game Development, Augmented Reality Application, Linux Shell Scripting, Internet of Things, Solar Cell Device Simulation, Python Programming, Nano composites, Food around the world, Personality Development etc. The STEAM School adopts student-centric teaching pedagogies like inquire-based and cooperative learning to favor critical analysis, re-elaboration and deep thinking through content and group discussions. The smaller groups enables one to one student - teacher interaction and provides chance to explore and perform new activities using different technologies, thus, improving learning curve and preparing students for life, regardless of the profession/stream they choose to follow. It also empowers teachers to employ project-based learning and fosters an inclusive learning environment. Practice II (b): Engineering Exploration Keeping in view the dynamic industry environment, increased competitiveness for job opportunities, changing industry trends and advancing technology, it becomes imperative for an institution to work on the holistic development of the students. With this aim, a multi-facet course "Engineering Exploration" is offered to the first and second year engineering students in accordance to the University's motto "Explore your Potential". This course offers an opportunity to the students to identify their areas of interests and discover greater career options and employment opportunities through interdisciplinary integrated programs. This course is offered to the students in first and second year of the degree programme. Approximately, 4 practical sessions are scheduled in a week aligned with the time table for this course. A number of elective subjects are offered as part of this course like Analytical Algorithmic Studies, Internet of Things (IOT), Red Hat Linux, Digital Marketing, Engineering Problem in Community Services (EPICS), Machine Learning with Python, Data Mining, Image processing with MATLAB, Digital Marketing and Advanced Programming etc. Small groups are made segregating day-scholars and hostelers to give adequate attention to each student, improve student-teacher interaction and provide customized teaching-learning experience etc. Students are encouraged to participate and perform through integrated group projects as part of the curriculum, promoting team building, creativity, critical learning, problem solving and interdisciplinary learning. An open-house atmosphere allows students to interact with faculty, senior students, and academic advisors ensuring better learning experience, inclusiveness, employability and research opportunities.

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

<https://www.chitkarauniversity.edu.in/best-practices/>

### 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 in not more than 500 words

Chitkara University, Himachal Pradesh has always been striving towards sustainable development other than its vision to promote academic excellence, interdisciplinary research and innovation. The University has taken some notable measures promoting Swachh Bharat Abhiyan which led to the University being ranked among top ten institutions Pan India in Swachhta Ranking for Higher Educational Institutions by MHRD and ranked no. 1 in HP Environment Leadership Award for consecutive two years. It has been the 1st educational institute in India to be honored with Silver Award at the 12th QCI DL Shaw Quality Awards 2018 for its zero discharge environmental friendly campus and ranked among top 151-200 Universities in NIRF Ranking. The University has been recognized for taking a ride on the green side and solving the problem of

Sludge Disposal faced by industries situated in Baddi Barotiwala Nalagarh Development Authority (BBNDA). Himachal Pradesh Government has also released a "Coffee Table Book" with special mention of University for initiatives taken and best practices adopted in the area of environmental conservation and sustainability. Some highlights of the University's cost-effective sustainable development initiatives are given below: • Solid, Wet, Bio-medical etc. Waste Management Mechanism • Roof Top Rain Water Harvesting • Sewage Treatment Plant - treated water used for plantation within the premises through double plumbing technique • Solid Waste Management - Vermin Composting Plant for kitchen and garden waste, Paper Recycling Plant • Organic Compositing for waste water generated in Vermin Compositing Plant for generation of organic pesticide • Solar Power Plant - Solar Water Heaters and Solar Street Lights • Hydroponic Farming Plant • No contribution to noise and air pollution - installed noise-free generators for power backup • Energy observant buildings and Bio-Tecture Green Infrastructure • No mobility of traffic in the campus - designated layout for parking • Nursery, Green Belt and Tree Plantation Drives • Fire Safety Measures • Mechanized Laundry and Modernized kitchens, messes and housekeeping resources • Use of LED Lights • Regular Environmental Sensitization Programmes and Cleanliness Drives for students, staff and residents of nearby villages • Paperless digital operations through University ERP-Chalkpad and E-mail • Environment Monitoring Programme by Environment Management Cell The University has set an example through its measures towards environment conservation, sustainable development and alternate energy. It has also helped nearby villages adopted under Unnat Bharat Abhiyan (UBA) to adopt practices like cleanliness, proper waste disposal and recycling, paper recycling, hydroponic farming etc. for healthy living and sustainability.

Provide the weblink of the institution

<https://www.chitkarauniversity.edu.in/>

### **8.Future Plans of Actions for Next Academic Year**

• The University has planned to set up two academic units viz. College of Nursing and School of Business Studies as a plan of expansion. Under these academic units, the University will commence two new academic programmes i.e. B.Sc in Nursing and BBA in Retail Operations from the Academic Year 2019-20 onwards. These two programmes are industry-oriented programmes wherein the University will collaborate with a well-established hospital for B.Sc (Nursing) and a retail giant for BBA (Retail Operations) programme to provide training and industry exposure to the students. • Along with core academics, University is focusing on research and innovation activities such as writing research proposals to funding agencies, filing patents, research publications and entrepreneurial ventures to boost the faculty and student start-ups. • The University looks forward to strengthen its industry and global collaborations to improve the internship, semester-exchange and placement opportunities etc. for students. • For holistic progression, the University will strategize to work on multiple parameters like student support, extension activities, sustainable development etc. besides academics and research to improve its academic, environmental, national and global rankings.