



# **SELF STUDY REPORT**

**FOR**

**1<sup>st</sup> CYCLE OF ACCREDITATION**

**RAJASTHAN TECHNICAL UNIVERSITY KOTA**

RAWATBHATA ROAD, AKELGARH

324010

[www.rtu.ac.in](http://www.rtu.ac.in)

Submitted To

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

**May 2022**

# 1. EXECUTIVE SUMMARY

---

## 1.1 INTRODUCTION

Rajasthan Technical University Kota was established by an act of Rajasthan Vidhansabha in 2006. The erstwhile engineering college kota established as an autonomous Institute of govt. of Rajasthan in 1981 which was merged in the Universtiy. Assets faculty and staff of the college were absorbed in the universtiy with about 365 acres of land. Full programes post graduagte and Ph. D. were started in 2009. New B. Tech. and M. Tech. programs introduced to 2011 to 2013. CBCS introduced in UG in 2017-18. In PG, the credit based systems has been adopted since 2020-21. During 2016 to 2021 Instute recieved accreditation of one PG and eight UG progrmes by NBA. Intake of Four UG progrmes has been increased in 2021-22. MOOCs courses has been introduced in UG and PG through credit based systems in 2017-18.

### Vision

To be an eminent institute of technical education and research through academic excellence and innovation to serve the needs of industry and society.

### Mission

- To provide quality education with focus on practical knowledge and ethics.
- To maintain a student support system for their professional growth to compete globally.
- To promote an environment conducive for innovation, entrepreneurship development and research.

Each departments has its own vision and mission in alignment with the overall vision and mission of institute.

We are constantly procuring equipments to provide facility to students.

Our students support systems is catered by three sections: Proctor, Exam, and Training section. Our endeavor for the pofesional growth of students is shows by their selections.

An IPR policy is approved by board and uploded on website.

## 1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

### Institutional Strength

1. About 30 percent faculty have enhanced their qualification in last five years.
2. Last three years have seen initiation of filing and award of patents by faculty.
3. Since first PhD award to its scholars in 2012-13, every major department has been able to develop in last seven-eight years, so as to consistently produce PhDs.

4. 2016-2019 years have witnessed completion on an average about 60 -70 M Techs per year, which is an increase over 40-50 M Techs per year produced during 2013-2016.
5. Adequate land availability for infrastructure development
6. Fund availability for augmentation of facilities and teaching- learning process/equipment.

### **Institutional Weakness**

1. Shortage of regular faculty- presently working with shortage of faculty strength.
2. Average age of faculty and supporting staff is more than 40 years.
3. Requirement of training for modern tool usage to supporting staff
4. There is decline in enrolment of M Tech in 2018 and 2019.
5. Student quality in admission to B Tech has come down.
6. Limited on-campus placements of B Tech and M Tech graduates.

### **Institutional Opportunity**

1. Large alumni base are in higher position in the various industries which support us to make MOUs with industries
2. MOUs of Investment summit of Rajasthan Govt. help faculty memebre to work in collobration and start consultany work.
3. There is positive growth each year for aquring the PhD qualification among the teachers which increases the number of publications in refereed journals, by scholars and faculty as well in last few years.
4. There is positive growth in the admission of the rural students every year in institute which can fill up the gap for the technology transfer from the urban to rural level.

### **Institutional Challenge**

1. About 10 faculty members, who had been in key positions in approximately last 10 years and in teaching for about 20-35 years shall superannuate, so need to develop leaders for academics.
2. Last three years have witnessed decrease in admission to B Tech programmes and MTech Programmes

## **1.3 CRITERIA WISE SUMMARY**

### **Curricular Aspects**

The curriculum has been designed with aim of all-round development of students while also facilitating

flexibility and support in choosing their career paths. During 2017-2021, the teaching scheme and syllabi have been revised at least twice for all UG courses and more than twice for some departments. Credit Based Choice System (CBCS) has been implemented for all UG and PG programmes. A process of continuous improvement is adopted in the institute to include latest developments in industrial practices, while also giving the students a flavour of academic research through projects and exercises. Students are offered several elective courses, both at the departmental level and cutting across departments as open electives allowing them to pursue diverse interests and preparing them for inter-disciplinary fields. Moreover, the students are given an option to take up minor degree in another discipline or a departmental specialization by doing additional courses/credits if they wish, thus providing further options to fast learner students to develop their potential. Providing credit to them for extra-curricular and social outreach activities in UG and PG also motivates them to develop constructive hobbies and foster creativity. In the 2020 revision of curricula for the UG and PG, the proportion of credits for projects and industrial training have been increased so as to enhance their exposure to practical aspects of the real-world challenges and adopt innovative practices. Provision for studying a few expert subjects through MOOCs allow the students to study from the best minds in the nation with greater rigour as well as develop skill of self- learning. Courses related to humanities, ethics, soft skills, general knowledge as Institute core courses help to groom the personality of students as versatile individuals. Organising expert lectures by eminent personalities both from industry as well as civil society from time to time exposes the students to diverse opinions and career options available while also augmenting lateral thinking. The institute pursues the path of continuous improvement based on feedback from different stakeholders and aims to produce graduates who would integrate harmoniously for national. regional requirements as well as globally competitive workforce.

### **Teaching-learning and Evaluation**

Last five years have seen development of ICT based teaching and its adoption in teaching- learning at the University in addition to the conventional classroom (chalk and board) teaching methods. Sensitisation about Outcome based education (OBE) among the teachers through organisation of workshops for OBE helped teachers in adopting practices. Feedback system from stakeholders evolved. Teachers have been sensitised about Bloom's taxonomy. Most of them are now mapping questions in the question paper with learning levels. This is expected to become a practice in the coming year/s in the Institute. It is expected to help in achieving higher level of learning in the students. Course Outcomes are defined for each course based on the programme outcomes (POs), which are aligned to Mission of the Institute. Rubrics for evaluation is announced by the teachers in the beginning of teaching the course. Students are taken for Industrial tours in nearby industries/power plants/construction sites. Internship/industrial trainings are essential part of the learning. Proportion of Internal assessment, has been increased from 20 % to 33 % in the period with an objective to increase continuous assessment and rely less on end term examination. For transparency in evaluation, the Institute is showing answerbooks to the students before finalisation of result (from this academic session). Extracurricular activities and celebrations etc are organised to encourage inherent abilities of the students, in alignment with the national and regional goals as well as addressing PO6 to PO12. Based on performance of students, Attainment of Course Outcomes are computed and eventually attainment of POs are calculated. Revision of curricula is done on the basis of industrial requirements, feedback from stakeholders and performance of students

### **Research, Innovations and Extension**

Few faculty member have received grants for research sponsored by the AICTE, BRNS and DST

2. Faculty members are regularly transferring the knowledge by visiting the industries and work sites in various roles.
3. Many workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years
4. More than 300 papers published by teachers and research scholars in the Journals notified on UGC website during the last five years
- 5 Many books and chapters in edited volumes/books published and papers published in national/ international conference proceedings during last five years
6. Institute has tie-up with the Jadavpur university under TEQIP-III.

### **Infrastructure and Learning Resources**

The University is having excellent infrastructure and learning resources. Total 55 Classrooms, 6 seminar halls etc. Total 900 computers, E library including journals & more than 100 faculty members are available as resources for students. 5 boys hostels and 2 Girls hostel with facilities are available for students. Approx. expenditure per student per year is more than Rs 2.5 lakhs.

### **Student Support and Progression**

1. Various scholarship scheme of AICTE and Prime Minister Special Scholarship Scheme for Jammu and Kashmir Students financially help students to complete the UG program .
2. Different club of institute such as music club, dance club, cinema club help students to enhance extracurricular activity.
3. Different soft skills lab build strength to students in fight in different challenge environments.
4. The college organizes a variety of capacity building and skills enhancement programmes in Soft skills, Language and communication skills, Life skills (Yoga, physical fitness, health and hygiene) and ICT/computing skills)
5. We have 05 boys hostels and 02 girls hostels for the students.
6. Average percentage of placement of outgoing students during the last five years have been significantly increased
7. Average percentage of students progressing to higher education during the last five years have also been increased.
8. Average percentage of students qualifying in state/national/ international level examinations during the last five years have been seen to be increased.
9. Participation of the students in sports and cultural events/competitions have been increased in last few years.

### **Governance, Leadership and Management**

The University is having a well laid governance system. Vice Chancellor has decentralized powers with Registrar, Finance Comptroller, Chief Warden, Deans, HOD, etc. Besides this, University is having Board of

Management for governance in which two members are MLA, Ex Officio Finance Secretary and Ex officio Secretary, Technical Education, Govt. of Rajasthan from state government. Limited financial powers are also decentralized. Regular meetings of Board, Academic Council, Finance Committee are held, their minutes of meetings are placed on the University website. AICTE and UGC rules are followed for career advancement of teachers.

### **Institutional Values and Best Practices**

Campus has excellent flora and fauna. Gold Medal to topper of every branch of UG are sponsored by faculty and staff in memory of their near and dear ones. In degree distribution function, we have practice to invite an Alumni of our University, as the Chief Guest to motivate our students. Most of the faculties are having their one UG, PG or Ph.D. degree from NIT/IIT. We have solid waste management, solar energy, green campus etc. We have practice to sensitize our students & employees for constitutional obligations and rights. Many extracurricular and extension activities are organized to commemorate national important days.

## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the University	
Name	RAJASTHAN TECHNICAL UNIVERSITY KOTA
Address	Rawatbhata Road, Akelgarh
City	KOTA
State	Rajasthan
Pin	324010
Website	<a href="http://www.rtu.ac.in">www.rtu.ac.in</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Vice Chancellor	Santosh Kumar Singh	0744-2473001		0744-2473002	
IQAC / CIQA coordinator	Praveen Kumar	0744-2472119	8302977984	0744-2473040	iqac@rtu.ac.in

Nature of University	
Nature of University	State University

Type of University	
Type of University	Affiliating

Establishment Details	
Establishment Date of the University	01-01-2006
Status Prior to Establishment, If applicable	Other
Establishment Date	01-07-1981
Any Other, Please Specify	An Engineering College of Govt of Rajasthan

<b>Recognition Details</b>		
<b>Date of Recognition as a University by UGC or Any Other National Agency :</b>		
<b>Under Section</b>	<b>Date</b>	<b>View Document</b>
2f of UGC	19-05-2007	<a href="#">View Document</a>
12B of UGC		

<b>University with Potential for Excellence</b>	
Is the University Recognised as a University with Potential for Excellence (UPE) by the UGC?	No

<b>Location, Area and Activity of Campus</b>							
<b>Campus Type</b>	<b>Address</b>	<b>Location*</b>	<b>Campus Area in Acres</b>	<b>Built up Area in sq.mts.</b>	<b>Programmes Offered</b>	<b>Date of Establishment</b>	<b>Date of Recognition by UGC/MHRD</b>
Main campus	Rawatbhata Road, Akelgarh	Urban	365	80000	BTech, MTech, MBA, PhD		

## 2.2 ACADEMIC INFORMATION

### Affiliated Institutions to the University

<b>Type of Colleges</b>	<b>Permanent</b>	<b>Temporary</b>	<b>Total</b>
Business Administration/Commerce/Management/Finance	0	35	35
Hotel Management/Hospitality/Tourism/Travel	0	1	1
Engineering/Technology/Architecture/Design	0	64	64
Professional	0	17	17

### Furnish the Details of Colleges of University



Type Of Colleges	Numbers
Constituent Colleges	0
Affiliated Colleges	117
Colleges Under 2(f)	4
Colleges Under 2(f) and 12B	8
NAAC Accredited Colleges	0
Colleges with Potential for Excellence(UGC)	1
Autonomous Colleges	0
Colleges with Postgraduate Departments	79
Colleges with Research Departments	0
University Recognized Research Institutes/Centers	15

Is the University Offering any Programmes Recognised by any Statutory Regulatory Authority (SRA)	: Yes				
<table border="1"> <thead> <tr> <th>SRA program</th> <th>Document</th> </tr> </thead> <tbody> <tr> <td>AICTE</td> <td><a href="#">111330_7620_1_1647938250.pdf</a></td> </tr> </tbody> </table>	SRA program	Document	AICTE	<a href="#">111330_7620_1_1647938250.pdf</a>	
SRA program	Document				
AICTE	<a href="#">111330_7620_1_1647938250.pdf</a>				

### Details Of Teaching & Non-Teaching Staff Of University

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned	37				68				156			
Recruited	11	0	0	11	15	1	0	16	54	9	0	63
Yet to Recruit	26				52				93			
On Contract	0	0	0	0	3	0	0	3	1	0	0	1

<b>Non-Teaching Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned				258
Recruited	99	15	0	114
Yet to Recruit				144
On Contract	42	6	0	48

<b>Technical Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned				124
Recruited	39	2	0	41
Yet to Recruit				83
On Contract	3	0	0	3

### Qualification Details of the Teaching Staff

<b>Permanent Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	11	0	0	15	1	0	29	5	0	61
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	24	4	0	28
UG	0	0	0	0	0	0	0	0	0	0

<b>Temporary Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

<b>Part Time Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	1	0	1
PG	0	0	0	0	0	0	22	8	0	30
UG	0	0	0	0	0	0	0	0	0	0

**Distinguished Academicians Appointed As**

	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Emeritus Professor	0	0	0	0
Adjunct Professor	0	0	0	0
Visiting Professor	0	0	0	0

**Chairs Instituted by the University**

Sl.No	Name of the Department	Name of the Chair	Name of the Sponsor Organisation/Agency
1	NOT AVAILABLE	NOT AVAILABLE	NOT APPLICABLE

**Provide the Following Details of Students Enrolled in the University During the Current Academic Year**

Programme		From the State Where University is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	406	35	0	0	441
	Female	109	12	0	0	121
	Others	0	0	0	0	0
PG	Male	13	1	0	0	14
	Female	6	1	0	0	7
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	13	1	0	0	14
	Female	3	1	0	0	4
	Others	0	0	0	0	0

<b>Does the University offer any Integrated Programmes?</b>	No
-------------------------------------------------------------	----

**Details of UGC Human Resource Development Centre, If applicable**

Year of Establishment	Nil
Number of UGC Orientation Programmes	0
Number of UGC Refresher Course	0
Number of University's own Programmes	0
Total Number of Programmes Conducted (last five years)	0

## 2.3 EVALUATIVE REPORT OF THE DEPARTMENTS

Department Name	Upload Report
Civil Engineering	<a href="#">View Document</a>
Computer Science And Engineering	<a href="#">View Document</a>
Electrical Engineering	<a href="#">View Document</a>
Electronics Engineering	<a href="#">View Document</a>
Mechanical Engineering	<a href="#">View Document</a>

### Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	<p>1. In this institute, 11 B. Tech. Programs are offered which are integrated with humanities and science departments. Courses of humanities and science department are essential components of all B. Tech. Programs in various semesters. 2. A flexible and innovative curriculum in line with NEP is adopted which includes credit-based courses in all 11 B. Tech. Programs. The institute offers a Minor Specialization Degree in addition to B. Tech. degree to the students on completing 20 credit courses other than the minimum criterion for obtaining the B. Tech. Degree. This minor specialization degree is based on Multidisciplinary / interdisciplinary courses to be completed by the students on earning the 20 credits. 3. Provision of Open Category courses is also there. Open Category courses are electives, which can be taken only outside the discipline, i.e. these courses are interdisciplinary in nature. It is mandatory to earn minimum 10 credits from Open Category courses in any B. Tech. program. 4. Humanities, science and management courses are offered as Institute Core Courses and are compulsory for the B. Tech. degree. 5. Audit courses which are also multidisciplinary in nature have also been offered in all B. Tech. and M. Tech. Programs. 6. It is mandatory to earn 11 non graded core units in B. Tech. Programs. For this a students has to clear courses related to their soft skills such as human value courses, induction program, club activities, communication skills, presentation skills, report writing skills etc.</p>
2. Academic bank of credits (ABC):	1. The Institute follows a choice-based credit system for all of its B.Tech. Programs and is now in the process to pass a resolution related to the ABC in the

	<p>Academic Council. Institute will formally register in the ABC portal as soon as the resolution is being approved by the higher academic bodies. 2. A committee has been constituted to decide the multiple exit/ entry in the engineering program. The necessary changes in the curriculum and ordinance/regulations are to be initiated.</p>
<p>3. Skill development:</p>	<p>a. UD, RTU offers one full semester long internship to enhance the skills of the students as per the need of industry. The institute also offers mandatory industrial trainings of 45 days and 60 days at the end of IV and VI semesters respectively in B. Tech. Programs. b. The institute offers mandatory practical courses such as product realization through manufacturing, computer aided graphics, python lab, computer programming lab and skill development lab at I year level of B. Tech. Program to enhance the skills of the students. c. It is mandatory to earn 11 non graded core units in all B. Tech. Programs. A students has to clear mandatory courses related to soft skills such as human value courses, club activities, communication skills, presentation skills, report writing skills etc. d. Skill Development Center (SDC) and research hub are developed in the institute to to promote research and employability of students. e. Various laboratories based on latest soft wares are offered in B.Tech., M.Tech. and Ph.D. Programs to enhance the skills and hence the employability of the students.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>To encourage Indian culture and heritage: Demonstration lectures and events are regularly organized in the institute in collaboration with SPIC MACAY. Outstanding local artists and crafts persons are invited as Artists-in-Residence and master instructors to promote local music, art, languages, and handicraft. Various cultural clubs exist in the institute where events related to Indian culture (classical dancing, singing, etc.) and languages (like Hindi debate, Hindi poem competitions) are regularly organized and our students get ample opportunity to participate in inter-college competitions. Club activity is also a part of curriculum. Integration of Indian knowledge system: A complete course on Indian constitution has been offered as institute core subject in Vsem of all B. Tech programs which is mandatory. Integration of Indian language in teaching: Though the regular medium of instruction</p>

	<p>is English, but proper blend of Hindi and English is used by the faculty for effective communication with students coming from diverse backgrounds. Our library do have a collection of books on allied subjects and is a repository of books on Languages, religion, art, and culture. Recently, Education Promotion Society for India (supported by AICTE) has selected RTU as one of the Universities, to take up the task of translating Technical Books in Hindi Language.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>The Institute offers 11 B.Tech Programs. All these programs are offered as outcome-based education (OBE) which are designed keeping in mind the regional and global requirements. The Institute has implemented outcome-based education with clearly stated Program Outcomes, Programs Specific Outcomes and course outcomes. All courses are designed with outcomes centered on cognitive abilities namely Remembering, Understanding, Applying, Analysing, Evaluating and Creating. Apart from the domain-specific skills, learning outcomes at all levels ensure social responsiveness and ethics, as well as entrepreneurial skills so that student contribute proactively to economic, environmental and social well-being of the nation. The Course Objectives (COs) are also aligned to the PO-PSO philosophy. All course syllabus have been designed with due consideration to macro-economic and social needs at large so as to apply the spirit of NEP. This is accentuated by the fact that our 8 B. Tech. Programs are NBA accredited.</p>
<p>6. Distance education/online education:</p>	<p>This institution is prepared for teaching learning process through different online modes like Google classroom, Google meet, Microsoft team and WebEx etc. A plethora of online platforms are used to provide education through online mode along with setting-up of virtual labs to continue theoretical as well as practical education of the students. Institute has successfully imparted delivery of all its course contents in online mode through video conferencing, online meetings etc. during the Pandemic (COVID-19) and also conducted online examinations successfully. The entire college campus is Wi-Fi enabled with digitally interactive panels installed in the classrooms and hence no hindrance /obstacle in online education. E-content prepared by faculty members during pandemic time or otherwise is</p>

available to students on our portal. The institute also has a You tube Channel 'RTU KOTA e-contents' having more than 1600 videos on different engineering courses. The link for the same is <https://www.youtube.com/channel/UCaHTPPVpmT6bfJ-176Fhz0Q>. The students are also encouraged to explore more online learning platforms such as Udemy, Coursera, nptel, etc. Our B.Tech programs have has compulsory Mooc course as departmental elective in vii and viii semester.



## Extended Profile

---

### 1 Program

#### 1.1

##### Number of programs offered year-wise for last five years

2020-21	2019-20	2018-19	2017-18	2016-17
25	25	25	25	25
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

#### 1.2

##### Number of departments offering academic programmes

Response: 5

### 2 Students

#### 2.1

##### Number of students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
2683	2788	2747	2701	2939
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

#### 2.2

##### Number of outgoing / final year students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
661	753	706	711	694
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**2.3****Number of students appeared in the University examination year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
2514	2544	2609	2730	2696
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**2.4****Number of revaluation applications year-wise during the last 5 years**

2020-21	2019-20	2018-19	2017-18	2016-17
25	94	362	597	603

**3 Teachers****3.1****Number of courses in all programs year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
1136	1136	1114	1114	1114
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**3.2****Number of full time teachers year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
139	174	155	159	117
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**3.3**

**Number of sanctioned posts year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
261	261	261	261	261
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**4 Institution****4.1****Number of eligible applications received for admissions to all the programs year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
1354	1662	1692	1422	1310
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**4.2****Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
238	204	194	292	229
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**4.3****Total number of classrooms and seminar halls****Response: 65****4.4****Total number of computers in the campus for academic purpose****Response: 959**

**4.5****Total Expenditure excluding salary year-wise during last five years ( INR in Lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
2028.89	1856.10	2868.91	3902.00	4159.42

## 4. Quality Indicator Framework(QIF)

---

### Criterion 1 - Curricular Aspects

---

#### 1.1 Curriculum Design and Development

##### 1.1.1

**Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the Institution.**

**Response:**

The college adopted Choice Based Credit System (CBCS) in 2017 and upgraded it with Outcome Based Education (OBE) in 2020, framing the POs, PSOs and COs focusing on the local, regional, national, and global developmental needs. The new syllabus adopted in 2020 takes a holistic view for developing well-trained professionals ready to face the challenges at various levels and the same has been deliberated while designing COs and mapping them with POs. There's a strong emphasis on human values in the new curriculum, with a dedicated course and lab common to all students in the first year of UG as well as it being a part of the induction program to groom the students into individuals with multifaceted personality and global citizens. There are a number of technical and non-technical students' activity clubs functioning in the institute where students work on different projects independently under guidance of a faculty mentor. In the second semester, participation in the activities of at least one club has been made mandatory for all students, which will help inculcate the spirit of teamwork and out-of-box thinking. To sensitize the students towards the challenges faced by industries at local as well as national level and to prepare them to successfully meet them, amount of time spent for industry training has been enhanced; now students have to undertake training after second as well as third year of UG program (45 days and 60 days respectively). The motto of new curriculum is learning by doing in line with New Education Policy 2020, so the students are encouraged to undertake and successfully complete a number of academic projects. During labs, students are supported to work on small projects, final year projects are kept in both 7th and 8th semesters, a mini-project has been added in the curriculum of M.Tech. In order to train students towards modern automation trends, the syllabus of courses and labs have been revised suitably, e.g. addition of computer-aided engineering graphics, additive manufacturing etc., enabling the students to be 'industry-ready' right after their graduation. To enhance students' learning through advanced level courses taught by faculties of reputed institutes, MOOCs (Massive Open Online Courses) have been introduced for B.Tech. as well as M.Tech. students. Interdisciplinary research is the need of the hour, and the students are exposed to fields other than their specialisation by means of open elective courses while PG students are encouraged to work on challenging problems cutting across boundaries and take a co-guide from another department or even another college if needed. Thus, we are endeavouring to train individuals with scientific aptitude and global outlook who may contribute to the society in diverse fields, all in their own innovative way.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

**1.1.2**

**Percentage of Programmes where syllabus revision was carried out during the last five years.**

**Response:** 100

**1.1.2.1 How many Programmes were revised out of total number of Programmes offered during the last five years**

Response: 25

**1.1.2.2 Number of all Programmes offered by the institution during the last five years.**

Response: 25

File Description	Document
Minutes of relevant Academic Council/BOS meeting	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Details of Programme syllabus revision in last 5 years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**1.1.3**

**Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years**

**Response:** 3.6

**1.1.3.1 Number of courses having focus on employability/ entrepreneurship/ skill development year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
48	37	39	41	37

<b>File Description</b>	<b>Document</b>
Programme/ Curriculum/ Syllabus of the courses	<a href="#">View Document</a>
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.2 Academic Flexibility

### 1.2.1

**Percentage of new courses introduced of the total number of courses across all programs offered during the last five years.**

**Response:** 10.65

**1.2.1.1 How many new courses were introduced within the last five years.**

**Response:** 121

**1.2.1.2 Number of courses offered by the institution across all programmes during the last five years.**

**Response:** 1136

<b>File Description</b>	<b>Document</b>
Minutes of relevant Academic Council/BOS meeting	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 1.2.2

**Percentage of Programmes in which Choice Based Credit System (CBCS) / elective course system has been implemented (Data for the latest completed academic year).**

**Response:** 96

**1.2.2.1 Number of Programmes in which CBCS / Elective course system implemented.**

**Response:** 24

<b>File Description</b>	<b>Document</b>
Minutes of relevant Academic Council/BOS meetings	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 1.3 Curriculum Enrichment

#### 1.3.1

#### **Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum**

#### **Response:**

While designing the new curriculum, it has been kept foremost in mind that the students should become not just well-trained professionals, but also holistic individuals having concern for ethics, environment, national and global prosperity and well-being, and social upliftment. For this purpose, a number of institute core courses compulsory for all students have been added, such as Environmental Science, General Studies, Indian Constitution and so on. All these would help in making them broad-based individuals with a wide vision for our society and environment. The module for Universal Human Values as prescribed by AICTE has been well-integrated in the induction program for freshers as well as through course and lab on human values and professional ethics in the first year UG, which aim to instill innate human values and ethics into the minds of young adults. During the induction program organised for incoming students to smoothly amalgamate into the college, a number of such activities related to crosscutting issues such as literary activities, visits to places of historical and technological importance, lectures by eminent personalities, session of universal human values etc. are organised. Regular interaction of students with faculty mentors enables experiential learning, which helps the students in clearing their doubts, discussing personal issues and developing a clear vision of life. There is a Women's Cell in the institute for redressal of any gender-related grievances. Moreover, invited lectures are organised time to time to sensitize the students towards gender equity. Through personal example and discussions, faculty members guide students towards ideals such as simplicity, sustainable development, ecological balance, respect of women etc. Workshops on areas such as Green Technologies/ Buildings, Fire Safety, Save Soil etc. for students and faculty are organised periodically in the campus. There is a course named 'Social Outreach, Discipline and Extra-Curricular Activities' in each semester, in which the students are graded for social work and extra-curricular activities. There are thriving student clubs such as Vivekananda Study Circle, Indeed, NSS etc., in which students take up different social activities such as imparting skills to underprivileged children, plantation drives, blood donation camps etc. Further, activities related to government initiatives such as Swachhh Bharat Abhiyan, International Yoga Day, National Unity Day, Republic Day, World No Tobacco Day etc. are organised at regular intervals. All these promote sensitivity towards environment, sustainable growth, gender equity, professional ethics, social values, national integrity etc. making the graduates responsible citizens of the nation.



<b>File Description</b>	<b>Document</b>
Upload the list and description of the courses which address the Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**1.3.2**

**Number of value-added courses for imparting transferable and life skills offered during last five years.**

**Response:** 10

**1.3.2.1 How many new value-added courses are added within the last five years.**

**Response:** 10

<b>File Description</b>	<b>Document</b>
Institutional data in prescribed format	<a href="#">View Document</a>
Brochure or any other document relating to value added courses	<a href="#">View Document</a>

**1.3.3**

**Average Percentage of students enrolled in the courses under 1.3.2 above.**

**Response:** 2.2

**1.3.3.1 Number of students enrolled in value-added courses imparting transferable and life skills offered year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
100	80	70	50	0

**1.3.4**

**Percentage of students undertaking field projects / research projects / internships (Data for the latest completed academic year).**

**Response:** 3.54

**1.3.4.1 Number of students undertaking field projects or research projects or internships.**

Response: 95

<b>File Description</b>	<b>Document</b>
List of Programmes and number of students undertaking field projects research projects/ / internships (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**1.4 Feedback System****1.4.1**

**Structured feedback for design and review of syllabus – semester-wise / year-wise is received from**

**1) Students, 2) Teachers, 3) Employers,**

**4) Alumni**

**Response:** A. All 4 of the above

<b>File Description</b>	<b>Document</b>
Institutional data in prescribed format	<a href="#">View Document</a>

**1.4.2**

**Feedback processes of the institution may be classified as follows:**

**Response:** B. Feedback collected, analysed and action has been taken

<b>File Description</b>	<b>Document</b>
Institutional data in prescribed format	<a href="#">View Document</a>

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1

**Demand Ratio (Average of last five years)**

**Response:** 1.76

##### 2.1.1.1 Number of seats available year wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
845	846	846	846	846

#### File Description

#### Document

Demand Ratio (Average of Last five years) based on Data Template upload the document

[View Document](#)

• Any additional information

[View Document](#)

#### 2.1.2

**Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per applicable reservation policy during the last five years**

**(Excluding Supernumerary Seats)**

**Response:** 98.54

##### 2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
277	250	184	167	233

#### File Description

#### Document

Average percentage of seats filled against seats reserved (Data Template)

[View Document](#)

Any additional information

[View Document](#)

## 2.2 Catering to Student Diversity

### 2.2.1

**The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners**

**Response:**

**Assessment of the learning level:** As soon as students are admitted, a two week long Induction program is conducted to expose the students to various facets of life and to navigate their journey through four years of college. Emphasis is laid on enhancing and imparting interpersonal skills, time management, and industry expectations. To ensure that every student gets proper attention, each student gets one faculty member as mentor. The students admitted to this institution are from diverse backgrounds, often requiring support in certain areas. The institute offers them uniform learning opportunities and assesses their learning through:

1. Close observation of their attentiveness and responsiveness in the classrooms and laboratories.
2. Performance in the Midterm Tests (MSTs), End-Semester Examinations, and viva-voce evaluation during practical.

Above parameters help the mentors to identify different learning levels of students. Discussions with subject teachers and their feedback further help the mentors to reaffirm the identified students and to decide further line of action.

**Programmes for slow learners:** Slow learners are identified based on the analysis in the qualifying examination (Physics, Chemistry and Mathematics). From I semester to the VI semester, the students are given remedial classes based on the following:

I Semester: - Based on entry level exam, I-midterm test

II-VI semesters: Based on two midterm tests and quizzes in the labs.

Students with backlog are provided additional classes for respective courses. Peer groups are formed to encourage slow learners to achieve better results by learning from their own classmates. Each peer group consists of 4-5 members and one from the group who is among top 15% scorer is designated as the group leader. Each group is assigned tasks by the faculty and a report on the activity is provided by the respective group leader. The slow learners are given more practice sessions and exercises to work on in the class as well as at home.

**Programmes for advanced learners:** Interactive participation in learning and good performance in examinations draw the attention of the course teachers and the mentors in identification of the meritorious students. The advanced learners are enthused to keep up their morale to enhance their academic record. Challenging assignments and projects are given to them to hone up their intellectual calibre, sharpen their inquisitiveness, induce them to experience the thrill of learning and enjoy the pleasure of achievement. There is provision of MOOC courses in the curriculum for independent pursuit

of higher studies. Interest in research is whetted by motivating them to attend conferences/seminars in research institutes, apply for students' projects from funding agencies, participate and present research papers in academic programs and publish articles in reputed journals. They are motivated to showcase their acquired skills and capabilities by participating in technical and cultural events in other institutions of national repute. They are further encouraged by providing financial assistance for developing research based projects. Peer teaching for slow learners by the advanced learners, the disadvantaged and the physically challenged students is encouraged to broaden their knowledge and humanitarian outlook towards the fellow students.

<b>File Description</b>	<b>Document</b>
Upload Any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### 2.2.2

**Student - Full time teacher ratio (Data for the latest completed academic year)**

**Response:** 19.3

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>

## 2.3 Teaching- Learning Process

### 2.3.1

**Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences**

**Response:**

The institute focuses on more innovative and creative ways of disseminating, sharing, and facilitating knowledge development in students in addition to the traditional teaching-learning methods. Institute adopts student-centric methods which are central to the Outcome-Based Education (OBE) system. These procedures are dynamic in nature and are updated and innovated to assess the learning in student centric way. The methodologies adopted for enhancement of Teaching –Learning are as below:

S.no.	Methodology	Type	S.no.	Methodology	Type
1	Workshops	Experiential	10	Expert Talks, Workshops and	Participative

				seminars	
2	Seminars	Experiential	11	Peer learning groups and Group Discussions	Participative
3	Virtual Lab	Experiential	12	MOOCs	Participative
4	Public Speaking	Experiential	13	Video Demonstration	Participative
5	Review web literature	Experiential	14	Presentations	Participative
6	Simulations	Experiential	15	Google Classroom	Participative
7	Hackathons	Experiential	16	Project-based learning	Problem solving
8	Industrial training	Experiential	17	Tutorials	Problem solving
9	Activity-based learning	Experiential	18	Case studies	Problem solving

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 2.3.2

**Teachers use ICT enabled tools including online resources for effective teaching and learning process.**

**Response:**

Every year Rajasthan Technical University Kota (RTU, Kota) enriches the quality of education using the ICT-enabled tools in several ways:

1. Teachers are creating digital content and sharing the same through the University Youtube Channel

(<https://www.youtube.com/channel/UCaHTPPVpmT6bfJ-176Fhz0Q/videos>).

2. Viva-voice examinations (M.Tech, Ph.D., B.Tech Internship students) are conducted through online platforms like google meet, Webex, Microsoft Team, Google Classroom etc.
3. MooC courses and NPTL courses are part of the curriculum as well as the teachers get benefits in promotion for completing the MooC Courses.
4. ICT tools with internet/ wifi connectivity have made this possible, interactive, instantaneous, and simultaneous with classroom teaching.

ICT Tools & Resources Available in our Institute are:

- Interactive Smart Boards/Whiteboards
- Anti Plagiarism software Turnitin
- Advanced NVIDIA server (Unique facility in Rajasthan) DGXS-2040S for AI Lab
- LCD Projectors with Internet Facility
- LAN Connectivity / Wi- Fi
- Class Room with Public Address System
- Laptops /Computers with all the necessary equipment
- Access to remote learning resource
- Smart Classroom for online as well as offline classes and workshops

The libraries at RTU, Kota is more like the Hub of Information Resource Centres full of electronic resource packages like DELNET, NPTEL, IEEE Explore, Science Direct, and Digital Library are available. The faculty members effectively utilize Audio-Visual aids to demonstrate the concepts to the students using the resources from National Programme on Technology Enhanced Learning (NPTEL) to enhance the learning experience.

RTU, Kota and its faculty have access to remote learning resources. Teachers and learners no longer have to rely solely on printed books and other materials in physical media housed in libraries (and available in limited quantities) for their educational needs. With the Internet and the World Wide Web, a wealth of learning materials in almost every subject and in a variety of media can now be accessed from anywhere at any time.

Multimedia teaching aids like, LCD projectors, computers, and laptops are used in the classroom usually to enable a new way of learning and online services to students in order to acquire the latest technical education with respect to their subject.

In response to the growing needs, our institution exercises new ways of providing information by

conducting workshops and guest lectures on the new developments. RTU, Kota enables students to realize that they are expected to contribute to society and to ignite their responsibility. Institute's Seminar halls are also equipped with multimedia facilities using ICT tools, mapping for paragraph Writing, NEPTTEL Videos, Application Oriented Videos, and Cooperative Learning. RTU Kota Invites talks and webinars in seminar halls using ICT facilities.

The University has also installed CCTV cameras, which keep an eye on teachers as well as students. Not only the behavior but it also records whether a teacher is teaching efficiently in class or not. CCTV cameras in the Institute prevent incidences of misbehavior with teachers/students in the college. If an act of bullying is seen on camera the staff can be sent in to stop the same.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide link for webpage describing the " LMS/ Academic management system"	<a href="#">View Document</a>

### 2.3.3

**Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year )**

**Response:** 37.26

2.3.3.1 **Number of mentors** ?????????????? ???????

Response: 72

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	<a href="#">View Document</a>
mentor/mentee ratio	<a href="#">View Document</a>
Circulars pertaining to assigning mentors to mentees	<a href="#">View Document</a>

## 2.4 Teacher Profile and Quality

### 2.4.1

**Average percentage of full time teachers against sanctioned posts during the last five years**

**Response:** 57.01



File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	<a href="#">View Document</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 2.4.2

**Average percentage of full time teachers with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D’Lit. year-wise during the last five years**

**Response:** 40.49

**2.4.2.1 Number of full time teachers with *Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt.* year wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
66	63	57	57	54

File Description	Document
List of number of full time teachers with Ph D/D M/M Ch/D N B Superspeciality/DSc/D Lit and number of full time teachers for 5 years	<a href="#">View Document</a>

### 2.4.3

**Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)**

**Response:** 14.65

**2.4.3.1 Total experience of full-time teachers**

Response: 2037

File Description	Document
List of Teachers including their PAN, designation, dept and experience details	<a href="#">View Document</a>

**2.4.4**

**Average percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the last five years**

**Response:** 7.39

**2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government/Govt. recognized bodies year wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
01	01	07	01	01

**File Description****Document**

Institutional data in prescribed format

[View Document](#)

e-copies of award letters (scanned or soft copy)

[View Document](#)

**2.5 Evaluation Process and Reforms****2.5.1**

**Average number of days from the date of last semester-end/ year- end examination till the declaration of results year-wise during the last five years**

**Response:** 80

**2.5.1.1 Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
53	86	77	82	102

**File Description****Document**

List of Programmes and date of last semester and date of declaration of results

[View Document](#)

Any additional information

[View Document](#)

**2.5.2**

**Average percentage of student complaints/grievances about evaluation against total number appeared in the examinations during the last five years****Response:** 12.56**2.5.2.1 Number of complaints/grievances about evaluation year wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
25	94	362	597	603

<b>File Description</b>	<b>Document</b>
Number of complaints and total number of students appeared year wise	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**2.5.3****IT integration and reforms in the examination procedures and processes (continuous internal assessment and end-semester assessment) have brought in considerable improvement in examination management system of the institution****Response:****IT integration and reforms in the examination procedures and processes**

The university has been continuously carrying out reforms in its examination procedure through the integration of IT in all the procedures and processes of the examination system. The reforms have also been implemented in the continuous internal assessment modes and components. The examination procedure has been shifting to complete automation using [www.rtu.ontick.in](http://www.rtu.ontick.in) ERP system.

The positive impact of reforms on the examination procedures and processes including IT integration and continuous internal assessment of the examination management system

**Examination Procedures and IT Integration**

- Adopting semester patterns of examination with a continuous evaluation system for all the departments and affiliated colleges.
- Digital evaluation system has been successfully implemented for UG, PG and Ph.D examinations. Viva-voice examinations (M.Tech, Ph.D., B.Tech Internship students) are conducted through online platforms like google meet, Webex, Microsoft Team, Google Classroom etc.
- Inclusion of seminar project, assignment, seminar presentation etc. as components of the

evaluation.

- MooC courses and NPTL courses are part of the curriculum as well as the teachers get benefits in promotion for completing the MooC Courses.

Some of the key contributions of the ICT enabled examination system:

1. Importing of course master from Academic council data
2. Registration of students for Regular & Supplementary courses.
3. Calculation of exam fees and fee collection along with Tuition fees.
4. Entry of Question paper setter and Valuer by HoD
5. Preparation of examination schedule
6. Publication of Exam Timetable
7. Exam Hall ticket generations and students can download from the website.
8. Practical Examination, as well as Midterm and End term, marks submission system, and printing of Hardcopy of mark sheet.
9. Results are published on the student's one-view system on the same day as the Result declaration by the CoE.
10. Applying for Revaluation and Retotalling only through online
11. Printing of Mark sheet, Consolidated Mark sheet for issuing to students

**The positive impact of the examination management system in the university is as follows:**

- Students can easily register and fill out the examination form, can get the Hall Ticket online, and can deposit the examination fee online.
- Schemes can be uploaded in the online system so that students can get their choice of subject during the examination form filling.
- Examiners are appointed only from the panel of examiners. The panel of examiners for every subject is compiled prior to the examination by collecting the information from the institutions/departments, considering the eligibility norms of the University.
- Examiners are provided with login and password for the digital marks filling for the practical, midterm, and end-term examinations.
- The answers scripts are coded to prevent disclosure of the identity of students; thereby bias/malpractice of any kind is prevented.

- Scheme of evaluation along with solutions are made available to the examiners prior to the commencement of evaluation. Thus uniformity is maintained.
- Online M.Tech and Ph.D thesis evaluation.

File Description	Document
Year wise number of applications, students and revaluation cases	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

#### 2.5.4

#### Status of automation of Examination division along with approved Examination Manual

**Response:** Only student registration, Hall ticket issue & Result Processing

File Description	Document
Current manual of examination automation system and Annual reports of examination including the present status of automation	<a href="#">View Document</a>
Current Manual of examination automation system	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 2.6 Student Performance and Learning Outcomes

### 2.6.1

**The institution has stated learning outcomes (generic and programme specific)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents**

**Response:**

Program Outcomes (POs) are broad statements that describe the professional accomplishments which the program aims at. POs are to be attained by the students by the time they complete the program. POs relate to the skills, knowledge and behavioural traits that the students need to acquire during their graduation. They are in coherence with the Graduate Attributes. The Program Specific Outcomes are the specific requirements to be met and the specific accomplishments to be fulfilled by the students relevant to their program of study.

POs, PSOs are framed after several brainstorming sessions involving the department faculty and technical staff members with stakeholders.

The course outcomes (COs) have been defined for both theory and practical subjects and the number of outcomes for each course varies from 4 to 6 depending upon the nature of the course. The course outcomes and its mapping with the program outcomes (POs) are integral part of the curriculum and are made available on the website. It has been mandated to apprise the students of the course outcomes in the class by the respective teachers in the beginning of every semester. POs, PSOs, and COs are disseminated to the stakeholders through the following channels:

### **Digital Media**

Institute Website

### **Print media**

Course file

Prospectus for new admission

### **Outdoor Boards at prominent places**

At each department

Inside each laboratory

Administrative Areas

### **Activities/Meetings**

Orientation / Induction programme

Presentation of the lesson plan in the first lecture

Departmental meetings

In addition to the above, there is a continuous thrust given by the subject teacher and the mentors to make the students aware about the outcomes of any course and convince them to understand the importance of an outcome-based evaluation system.

The students undergo continuous assessment through two midterm evaluations and an end term evaluation. For such evaluation, the guidelines for question paper setting are followed which aims the compliance with outcome based education (OBE). The main highlights of the guidelines are: (a) the questions should address all COs and different level of learning, (b) due weightage should be given to each CO, (c) assigning the associated CO and knowledge level to each question etc.

File Description	Document
Upload COs for all courses (exemplars from Glossary)	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Paste link for Additional Information	<a href="#">View Document</a>

## 2.6.2

### **Attainment of Programme outcomes, Programme specific outcomes and course outcomes are evaluated by the institution**

#### **Response:**

A brief description on writing a CO is given below.

1. The subject teacher defines the course outcomes using Bloom's Taxonomy and the same is discussed in the Departmental Academic Council in presence of the Head of the Department.
2. After discussion/review, the COs are finalized and written for each course in every program. The COs are kept in the course file and uploaded on the website in the place of the respective department.
3. Each Course Outcome is mapped to Program Outcomes in terms of relevance. Three levels of relevance based on the degree of correlation are used. The levels of correlation are 1 for low, 2 for medium, and 3 for high correlation.
4. The contribution of course to each PO is expressed in terms of the average relevance of COs mapped to that particular PO. Similarly, the value computed for all the courses including first-year courses is entered for the corresponding PO and PSOs.
5. The agreed-upon COs form the basis for achieving POs and PSOs and thus contributing towards achieving the Mission and Vision of the Institute.

The following methodology is used to measure the attainment of course outcomes. The attainment levels for courses are set based on the previous performance. Setting the three attainment levels helps to determine the extent of attainment of each course outcome against the set target.

#### **Attainment of COs**

#### **Previous Methodology**

The attainment is measured in terms of the actual percentage of students getting the set percentage of marks or more. The attainment is measured in terms of the actual percentage of students getting the set percentage of marks or more.

Contribution of internal and external evaluation is considered as below:

For Theory subjects:

1. Internal Evaluation (weightage 33%)

Continuous internal assessment

Assignments

1. External Evaluation (weightage 67%)

University end semester theory examination

For Practical Subjects:

1. Internal Evaluation (weightage 60%)

Lab performance

Practical continuous assessment

1. External Evaluation (weightage 40%)

University end semester practical examination

### **Present Methodology**

The students' performance is evaluated with respect to course outcomes and Bloom's taxonomy levels. The question wise marks scored by the student and mapping of the questions with COs is used to compute the attainment of each CO for every student. As every CO is addressed across the rubrics of that subject, there will be contribution in CO attainment from every component of the rubrics. The computation of CO attainment as per the rubrics has been implemented using excel sheets. The student feedback of each course is also used for CO attainment.

### **Attainment of Program Outcomes and Program Specific Outcomes**

Once the total attainment of CO is calculated, the correlation of POs with COs and PSOs with COs is used for measuring the level of attainment of POs and PSOs. If the attainment is either equal to or more than the target value, it is concluded that attainment has been achieved successfully

### **Total PO attainment is based on:**

Direct Attainment (80% weightage) and Indirect attainment (20% weightage).



Direct attainment is calculated from CO attainment based on four Continuous Assessments and Semester Examination and Indirect attainment is calculated based on (i) Program Exit Survey (ii) Alumni survey and (iii) Employer Survey.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for Additional Information	<a href="#">View Document</a>

### 2.6.3

**Pass Percentage of students(Data for the latest completed academic year)**

**Response:** 89.57

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 610

2.6.3.2 **Total number of final year students who appeared for the examination conducted by the Institution.**

Response: 681

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination	<a href="#">View Document</a>
Link fo any additional information	<a href="#">View Document</a>

## 2.7 Student Satisfaction Survey

### 2.7.1

**Online student satisfaction survey regarding teaching learning process**

**Response:** 3.15

## Criterion 3 - Research, Innovations and Extension

### 3.1 Promotion of Research and Facilities

#### 3.1.1

**The institution's Research facilities are frequently updated and there is a well defined policy for promotion of research which is uploaded on the institutional website and implemented**

**Response:**

Research facilities in the campus of Rajasthan Technical University are frequently updated. In last few years, the major lab facilities procured and installed includes Closed loop Universal Testing Machine, Environmental 3- D printing, Robotics and power electronics etc. Softwares and ICT based tools for analysis and design, including MATLAB, STAAD, ANSYS etc have been procured. A research hub was inaugurated by Honble Governor of Rajasthan last year. Faculty and scholars are using these facilities. Well defined policy including Ordinance and Regulations for PhD scholars is available on the website. Scholarship is made available to GATE qualified PhD (in thrust areas under ADF scheme) and M Tech candidates through AICTE. Non GATE qualified M Tech candidates are given scholarship from University fund. PhD candidates are encouraged to undertake full time research with a scholarship of Rs 25000/- per month from University fund. The M Tech and PhD scholars are encouraged to participate in Conferences and there are well laid guidelines/rules for reimbursement of registration fees and TA, DA to scholars attending Conferences to present research paper.

A policy has been approved by Finance committee and Board of Management for seed money grant to teachers to initiate research in new areas. IPR policy is approved by the Board.

File Description	Document
Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
URL of Policy document on promotion of research uploaded on website	<a href="#">View Document</a>

#### 3.1.2

**The institution provides seed money to its teachers for research (average per year, INR in Lakhs)**

**Response: 0**

**3.1.2.1 The amount of seed money provided by institution to its faculty year-wise during the last five years (INR in lakhs).**

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Minutes of the relevant bodies of the University	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

### 3.1.3

**Percentage of teachers receiving national / international fellowship / financial support by various agencies for advanced studies / research during the last five years.**

**Response:** 1.21

**3.1.3.1 The number of teachers who received national / international fellowship / financial support by various agencies for advanced studies / research year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
2	1	6	0	0

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

### 3.1.4

**Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the last five years.**

**Response:** 118

**3.1.4.1 The Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other research fellows enrolled in the institution year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
30	30	37	21	0

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

**3.1.5**

**Institution has the following facilities to support research**

- 1. Central Instrumentation Centre**
- 2. Animal House/Green House**
- 3. Museum**
- 4. Media laboratory/Studios**
- 5. Business Lab**
- 6. Research/Statistical Databases**
- 7. Mootcourt**
- 8. Theatre**
- 9. Art Gallery**
- 10. Any other facility to support research**

**Response:** B. 3 of the above

File Description	Document
Upload any additional information	<a href="#">View Document</a>

**3.1.6**

**Percentage of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other recognitions by national and international agencies (Data for the latest completed academic year)**

**Response:** 0

**3.1.6.1 The Number of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other similar recognitions by national and international agencies.**

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

**3.2 Resource Mobilization for Research****3.2.1**

**Extramural funding for Research (Grants sponsored by the non-government sources such as industry, corporate houses, international bodies for research projects) endowments, Chairs in the University during the last five years (INR in Lakhs).**

**Response:** 0

**3.2.1.1 Total Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years (INR in Lakhs).**

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

### 3.2.2

**Grants for research projects sponsored by the government agencies during the last five years (INR in Lakhs).**

**Response:** 187.06

**3.2.2.1 Total Grants for research projects sponsored by the government agencies year-wise during the last five years (INR in Lakhs).**

2020-21	2019-20	2018-19	2017-18	2016-17
0	187.06	0	0	0

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e-copies of the grant award letters for research projects sponsored by government	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.2.3

**Number of research projects per teacher funded by government and non-government agencies during the last five years**

**Response:** 1.76

**3.2.3.1 Number of research projects funded by government and non-government agencies during the last five years.**

Response: 43

### 3.2.3.2 Number of full time teachers worked in the institution year-wise during the last five years..

Response: 122

File Description	Document
Supporting document from Funding Agency	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

## 3.3 Innovation Ecosystem

### 3.3.1

**Institution has created an eco system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge.**

#### Response:

Realizing the necessity of innovative ideas and their subsequent implementation through quantifiable initiatives, the following goals have been set:

- Enrich the learning experience of students through innovative tools and techniques.
- Enhance the understanding and knowledge of students with innovative measures and pedagogies.
- Broaden the perspective of students in matters pertaining to academic, contemporary as well as social issues using innovative tools and techniques.
- Motivate the students to think, formulate and act innovatively themselves.

Given below is a listing of some of the noticeable initiatives taken by the faculty. However, it should not be construed as a conclusive list; but as a part of an open ended process of continuous improvement.

**Innovation & Incubation Cell:** The Institute has established an ecosystem for innovation for advanced research, entrepreneur, and start-Ups. Innovation & Incubation Cell was started in July, 2018.

**IPR Cell:** The Intellectual Property Rights (IPR) cell is there in the institute to spread the awareness of IPR among students and faculty members of Institute.

**Student Activity Club (SAC):** Several student activity clubs (technical & cultural) are currently being run by the institute. Various club activities in these clubs act as excellent grounds for innovative learning.

**RTU News Letters:** The institute publishes an institutional magazine every year for providing platform to students and faculty members for circulation of information and ideas.

**Virtual labs:** In certain labs, relevant experiments are conducted online on web browsers with the help of simulators.

**MOOCS:** At RTU, we support augmenting our own efforts of effective delivery by MOOCs available through agencies like NPTEL and SWAYAM. A computer laboratory is established in central library for students to view lectures.

**Power point presentations & audio-visual learning:** This has actually become a standard norm in the teaching-learning process, and is facilitated by the fact that classrooms are well-equipped with high quality projectors ready for use any time. It is a proved fact that audio-visual presentations in the classrooms are more effective in capturing the attention of students and hence are used wherever necessary.

**Adherence to Bloom's taxonomy:** The mid-term tests for all subjects in the department are made in strict adherence to the Bloom's taxonomy.

File Description	Document
Paste link for additional information	<a href="#">View Document</a>

### 3.3.2

**Number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development during the last five years.**

**Response:** 15

**3.3.2.1 Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
3	2	3	4	3

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

### 3.3.3

**Number of awards / recognitions received for research/innovations by the institution / teachers / research scholars / students during the last five years.**

**Response:** 8

### 3.3.3.1 Total number of awards / recognitions received for *research / innovations* won by institution / teachers / research scholars / students year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
4	2	1	1	0

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e- copies of award letters	<a href="#">View Document</a>

## 3.4 Research Publications and Awards

### 3.4.1

**The Institution ensures implementation of its stated Code of Ethics for research through the following:**

- 1. Inclusion of research ethics in the research methodology course work**
- 2. Presence of Ethics committee**
- 3. Plagiarism check through software**
- 4. Research Advisory Committee**

**Response:** B. 3 of the above

File Description	Document
Code of ethics for Research document, Research Advisory committee and ethics committee constitution and list of members on these committees, software used for Plagiarism check, link to Website	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.4.2

**The institution provides incentives to teachers who receive state, national and international recognitions/awards**

- 1. Commendation and monetary incentive at a University function**



**2. Commendation and medal at a University function****3. Certificate of honor****4. Announcement in the Newsletter / website****Response:** D. 1 of the above

<b>File Description</b>	<b>Document</b>
Institutional data in prescribed format	<a href="#">View Document</a>
e- copies of the letters of awards	<a href="#">View Document</a>

**3.4.3****Number of Patents published / awarded during the last five years.****Response:** 15**3.4.3.1 Total number of Patents published / awarded year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
1	4	5	4	1

<b>File Description</b>	<b>Document</b>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.4.4****Number of Ph.D's awarded per teacher during the last five years.****Response:** 1.03**3.4.4.1 How many Ph.D's are awarded within last five years.**

Response: 72

**3.4.4.2 Number of teachers recognized as guides during the last five years**

Response: 70

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
URL to the research page on HEI web site	<a href="#">View Document</a>

### 3.4.5

**Number of research papers per teachers in the Journals notified on UGC website during the last five years**

**Response:** 4.29

**3.4.5.1 Number of research papers in the Journals notified on UGC website during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
189	130	139	107	73

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.4.6

**Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years**

**Response:** 3.05

**3.4.6.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
118	83	93	67	93

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

**3.4.7**

**E-content is developed by teachers :**

- 1.For e-PG-Pathshala**
- 2.For CEC (Under Graduate)**
- 3.For SWAYAM**
- 4.For other MOOCs platform**
- 5.Any other Government Initiatives**
- 6.For Institutional LMS**

**Response:** D. Any 2 of the above

<b>File Description</b>	<b>Document</b>
Institutional data in prescribed format	<a href="#">View Document</a>
Give links or upload document of e-content developed	<a href="#">View Document</a>

**3.4.8**

**Bibliometrics of the publications during the last five years based on average citation index in Scopus/ Web of Science or PubMed**

**Response:** 3.86

<b>File Description</b>	<b>Document</b>
Bibliometrics of the publications during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.4.9**

**Bibliometrics of the publications during the last five years based on Scopus/ Web of Science - h-index of the Institution**

**Response:** 22

<b>File Description</b>	<b>Document</b>
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.5 Consultancy

#### 3.5.1

**Institution has a policy on consultancy including revenue sharing between the institution and the individual and encourages its faculty to undertake consultancy.**

**Response:**

Rajasthan Technical University Kota has laid a policy for consultancy and testing. Institute has prepared the Consultancy/ testing policy in 2011 for revenue sharing between the institution and the individual, it has been approved by Finance committee and Board. It encourages its faculty to undertake consultancy. Consultancy policy document and related details are attached herewith. The University has been following these since 2011.

File Description	Document
Upload soft copy of the Consultancy Policy	<a href="#">View Document</a>
Upload minutes of the Governing Council/ Syndicate/Board of Management related to consultancy policy	<a href="#">View Document</a>

#### 3.5.2

**Revenue generated from consultancy and corporate training during the last five years (INR in Lakhs).**

**Response:** 196.93

**3.5.2.1 Total amount generated from consultancy and corporate training year-wise during the last five years (INR in lakhs).**

2020-21	2019-20	2018-19	2017-18	2016-17
24.00	16.13	44.244	46.11	66.45

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Audited statements of accounts indicating the revenue generated through consultancy	<a href="#">View Document</a>

### 3.6 Extension Activities

#### 3.6.1

**Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years.**

**Response:**

Rajasthan Technical University 's NSS and NCC wings have been organising various activities like blood donation camp, tree plantation, campus cleaning, Yoga and meditation session/shivir, awareness camp in nearby needy society on regular basis. In last one and half year, large number of health awareness and Covid prevention camps have been organised in the nearby and University adopted villages. Ration and other essential items including mask distribution have been organised.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 3.6.2

**Number of awards received by the Institution, its teachers and students from Government /Government recognised bodies in recognition of the extension activities carried out during the last five years**

**Response: 1**

**3.6.2.1 Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
0	1	0	0	0

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e-copy of the award letters	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 3.6.3

**Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years****Response:** 66**3.6.3.1 Number of extension and outreach programs conducted by the institution those through NSS/NCC, Government and Government recognised bodies during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
31	19	8	4	4

File Description	Document
Reports of the event organized	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.6.4****Average percentage of students participating in extension activities listed at 3.6.3 above during the last five years****Response:** 9.31**3.6.4.1 Total number of students participating in extension activities listed at 3.6.3 above year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
376	227	241	256	180

File Description	Document
Report of the event	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.7 Collaboration****3.7.1**

**Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year**

**Response:** 1.4

**3.7.1.1 Total number of Collaborative activities with other institutions / research establishment / industry for research and academic development of faculty and students year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
2	3	2	0	0

**File Description**

**Document**

Institutional data in prescribed format

[View Document](#)

**3.7.2**

**Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.**

**Response:** 66

**3.7.2.1 Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
18	18	19	10	1

**File Description**

**Document**

Institutional data in prescribed format

[View Document](#)

e-copies of the MoUs with institution/ industry

[View Document](#)

## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

#### 4.1.1

**The institution has adequate facilities for teaching - learning. viz., classrooms, laboratories, computing equipment, etc.**

**Response:**

Rajasthan Technical University offers excellent atmosphere for teaching and learning. With well qualified faculties, many of them are PhD's from reputed IIT's , NIT's and other institutions know the subjects thoroughly and can impart a good subject knowledge to the students. The curriculum is formulated with the expertise of the faculties and choice based credit system (CBCS) is used for evaluation, following the National Education Policy. The students entering the university are selected based on their merit in JEE Mains.

University has well developed infrastructure as far as classrooms and laboratories are concerned. All the old departments share a common corridor for easy access to the other departments. All the newly built departments Computer engg, Petroleum engg are built with modern construction and amenities. The institution has separate Halls for conduct of examinations, and newly built lecture theatres have large seating arrangements for students where intake of students is large.

Well ventilated classrooms with good quality desks and chairs are available for the students. The laboratories are equipped with set up to perform experiments as per scheme and syllabi. Many new laboratories and centers are developed with the funds received from the TEQIP grants.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

#### 4.1.2

**The institution has adequate facilities for cultural activities, yoga, games and sports (indoor & outdoor); (gymnasium, yoga centre, auditorium, etc.,)**

**Response:**

As for the extracurricular and cultural activities the University has a very good infrastructure. It has a big ground for football, a Tennis court, a Volley ball and cricket as well for the students. Provision is also made for students to play basketball. The students play the traditional games of Kabbadi and Kho-Kho. Annual cultural fest 'Anukriti' is organized every year and the tech. fest Thar. There is an indoor badminton hall and gymnasium for the students. An Auditorium in VC Secretariat is used for lectures/presentations to the students. The Agora and space in front of it are used for small programs like SPIC MACAY etc. The Yoga camp on International Yoga Day is also organized for the students. The



girls and boys hostel also have indoor game activities like Table Tennis, Carrom, chess etc. Overall, the university has good facilities for the cultural and sports activities. Students actively participate in more than ten clubs in the university.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### 4.1.3

#### Availability of general campus facilities and overall ambience

##### Response:

Rajasthan Technical University is spread in a sprawling campus of more than 300 acres. With the availability of this huge land space, ample facilities are provided for the students and faculties residing within. The university has a Bank, a Post office inside the campus. To cater to the medical needs, the university has a dispensary with a doctor, attendant and a nurse. A cafeteria provides the students required snacks, mini meals and beverages. The required stationary items, photocopy, binding of reports etc. are done in the shops in the shopping center area of the university. The faculties have their residences inside the campus. The houses for three different cadres as Professor, Associate professor and Assistant professors are in the campus. The quarters for non-teaching staff are made available in the campus. There are two girls and seven boys hostels in the campus. The breakfast and two meals are provided in the mess of every hostel to the students. The overall ambience of the university is very good. With Chambal River flowing along one side and a view of hanging bridge over the river gives the campus beautiful looks. To add to it, there are chimneys seen of Kota Thermal Power Station from the campus, as if motivating the students to pursue the career after graduating from the University Departments. The campus has many trees including Neem, Banyan, Palash, Cheed etc. The landscaping includes lots of foliage and greenery within. All these provide a very nice ambience to the university. The part of university which includes VC secretariat, Registrar office, Examination center etc. are located quite separately from the academic blocks, where all the university related work is carried out. The VC secretariat has Vice Chancellor's office and a meeting room and a Pro VC chamber. All the examination related work of affiliated colleges is done in the exam center.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

### 4.1.4

#### Average percentage of expenditure for infrastructure augmentation excluding salary during the last five years (INR in Lakhs)

**Response:** 19.22**4.1.4.1 Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
341.63	26.15	223.65	1279.86	1548.81

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

**4.2 Library as a Learning Resource****4.2.1**

**Library is automated using Integrated Library Management System (ILMS) and has digitisation facility**

**Response:**

Library consists SQL server-2000 (for ILMS) since 2006. Library automation is already implemented by SOUL software (Network version). Library books issue / deposit is done by using SOUL software. Book issue / location status can also be seen on the library computers. BARCODE based book issue card is available to every user viz faculty, students, and staff.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

**4.2.2**

**Institution has access to the following:**

- 1. e-journals**
- 2. e-ShodhSindhu**
- 3. Shodhganga Membership**
- 4. e-books**

**5. Databases****6. Remote access to e-resources****Response:** B. Any 3 of the above

File Description	Document
Upload any additional information	<a href="#">View Document</a>

**4.2.3**

**Average annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)**

**Response:** 73.57

4.2.3.1 Annual expenditure for the purchase of books and journals including e-journals year-wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
4.67	77.65	115.14	115.75	54.63

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

**4.2.4**

**Percentage per day usage of library by teachers and students ( foot falls and login data for online access) during the latest completed academic year**

**Response:** 4.78

4.2.4.1 Number of teachers and students using library per day over last one year

Response: 135

File Description	Document
Details of library usage by teachers and students (Library accession register, online accession details to be provided as supporting documents)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 4.3 IT Infrastructure

#### 4.3.1

**Percentage of classrooms and seminar halls with ICT - enabled facilities such as LCD, smart board, Wi-Fi/LAN, audio video recording facilities. (Data for the latest completed academic year)**

**Response:** 9.23

##### 4.3.1.1 Number of classrooms and seminar halls with ICT facilities

Response: 6

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 4.3.2

**Institution has an IT policy, makes appropriate budgetary provision and updates its IT facilities including Wi-Fi facility**

**Response:**

- 1.2 Nos shophos make XG-550 universal threat management (UTM) system is deployed for endpoint security, content filtering, spam detection, web filtering as well as antivirus.
2. 2 Nos 10 GBPS L-3 core switch, 42 Nos Managed L2 core switch, 64 Nos 24-port/48 port switches provide campus networking services
3. 20 Nos outdoor wifi Access points in the campus are available and deployed campus wide.
4. RTU has more than 14 km long campus wide Optical Fibre cable in ring and more than 25 km CAT-6 cable is laid.
5. Hi end AI server nvidia DGX-550, 9- Nose blade server, 20 TB Hi-speed data storage EMC unit are available at server station.
6. RTU has present bandwidth available is 1000Mbps+ 256Mbps+ 100Mbps= 1356Mbps. and covered under NMEICT project, NKN project and RajCom Project.
7. A separate budget provision is there for the Dept. of Computer center.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

#### 4.3.3

**Student - Computer ratio (Data for the latest completed academic year)****Response:** 2.8

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Student – computer ratio	<a href="#">View Document</a>

**4.3.4****Available bandwidth of internet connection in the Institution (Leased line)****Response:** A. ?1 GBPS

File Description	Document
Details of available bandwidth of internet connection in the Institution	<a href="#">View Document</a>

**4.3.5****Institution has the following Facilities for e-content development**

1. Media centre
2. Audio visual centre
3. Lecture Capturing System(LCS)
4. Mixing equipments and softwares for editing

**Response:** D. 1 of the above

File Description	Document
Links of photographs	<a href="#">View Document</a>

**4.4 Maintenance of Campus Infrastructure****4.4.1****Average percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the last five years****Response:** 19.75**4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
322.26	519.79	626.59	628.54	703.29

File Description	Document
Upload any additional information	<a href="#">View Document</a>

#### 4.4.2

**There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.**

**Response:**

For maintaining & Utilizing physical support facility estate deptt. awards various contract regularly.

Post warranty AMC is awarded for networking etc.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

## Criterion 5 - Student Support and Progression

### 5.1 Student Support

#### 5.1.1

**Average percentage of students benefited by scholarships and freeships provided by the institution, Government and non-government agencies (NGOs) during the last five years (other than the students receiving scholarships under the government schemes for reserved categories).**

**Response:** 14.41

**5.1.1.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)**

2020-21	2019-20	2018-19	2017-18	2016-17
384	388	436	407	378

#### File Description

#### Document

Upload self attested letter with the list of students sanctioned scholarship

[View Document](#)

Institutional data in prescribed format

[View Document](#)

Link for additional information

[View Document](#)

#### 5.1.2

**Average percentage of students benefited by career counseling and guidance for competitive examinations as offered by the Institution during the last five years.**

**Response:** 46.14

**5.1.2.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
1775	813	1265	1200	1320

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 5.1.3

**Following Capacity development and skills enhancement activities are organised for improving students capability**

- 1. Soft skills**
- 2. Language and communication skills**
- 3. Life skills (Yoga, physical fitness, health and hygiene)**
- 4. Awareness of trends in technology**

**Response:** A. All of the above

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link to Institutional website	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 5.1.4

**The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases**

- 1. Implementation of guidelines of statutory/regulatory bodies**
- 2. Organisation wide awareness and undertakings on policies with zero tolerance**
- 3. Mechanisms for submission of online/offline students' grievances**
- 4. Timely redressal of the grievances through appropriate committees**

**Response:** B. 3 of the above



File Description	Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View Document</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## 5.2 Student Progression

### 5.2.1

**Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)**

**Response:** 34.37

**5.2.1.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.) year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
4	94	111	137	50

**5.2.1.2 Number of students appearing in state/ national/ international level examinations (eg: IIT/JAM/ NET / SLET/ GATE/ GMAT/CAT,GRE/ TOEFL/ Civil Services/ State government examinations) year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
320	240	223	236	212

File Description	Document
Upload supporting data for the same	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

### 5.2.2

**Average percentage of placement of outgoing students during the last five years****Response:** 34.17**5.2.2.1 Number of outgoing students placed year - wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
167	290	276	254	224

**File Description****Document**

Self attested list of students placed

[View Document](#)

Institutional data in prescribed format

[View Document](#)

Link for additional information

[View Document](#)**5.2.3****Percentage of student progression to higher education (previous graduating batch).****Response:** 5.75**5.2.3.1 Number of outgoing student progressing to higher education.**

Response: 38

**File Description****Document**

Institutional data in prescribed format

[View Document](#)**5.3 Student Participation and Activities****5.3.1**

**Number of awards / medals won by students for outstanding performance in sports / cultural activities at inter-university / state / national / international events (award for a team event should be counted as one) during the last five years.**

**Response:** 10

**5.3.1.1 Number of awards/medals won by students for outstanding performance in sports / cultural activities at inter-university / state / national / international events (award for a team event should be counted as one) year - wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
02	02	02	02	02

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 5.3.2

#### **Presence of Student Council and its activities for institutional development and student welfare.**

##### **Response:**

Role of Student Council in institutional development and student welfare

(It acts as a bridge between students and professors for any grievance. )

Organisation Structure of Student Council

(There is one general secretary, four deputy secretaries and one class representative in each branch)

Year Wise Activities of Student Council of RTU KOTA from 2016-17 to 2020-21

1. Activities 2016-17 (2)
2. Activities 2017-18 (2)
3. Activities 2018-19 (2)
4. Activities 2019-20 (1)
5. Activities 2020-21 (Nil due to covid)

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**5.3.3**

**Average number of sports and cultural events / competitions organised by the institution per year**

**Response:** 1.8

**5.3.3.1 Number of sports and cultural events / competitions organised by the institution year - wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
00	02	02	03	02

File Description	Document
Report of the event	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**5.4 Alumni Engagement****5.4.1**

**The Alumni Association / Chapters (registered and functional) contributes significantly to the development of the institution through financial and other support services.**

**Response:**

**The Alumni Association / Chapters (registered and functional) contributes significantly to the development of the institution through financial and other support services**

1. Alumni Meet Chapter photos
  - 1.2021
  - 2.2020
  - 3.2019
  - 4.2018
  - 5.2017
  - 6.2016
2. Alumni Association Registration Documents
3. Alumni association organisation
  1. President – Rajeev Gupta
  2. Secretary – Harish Sharma
  3. Joint Secretary –

4. Treasurer – Pankaj Shukla
5. Executive Members -
4. Alumni Association Chapters
  1. Kota
  2. Jaipur
  3. NCR
  4. Bangalore
  5. Gujarat
  6. Maharashtra
  7. USA
  8. Chennai
5. Alumni Contribution towards development of institution
  1. 2017 - Tushar Mittal, one of the alumni, developed a conference hall – The Tushar Mittal Hall. He contributed more than Rs. 21 lacs in developing the hall.
6. Alumni Contribution during COVID times
  1. During COVID times the alumni chapters in each city got active in arranging for oxygen, hospital, drugs etc. for alumni and society.
7. Alumni Contribution towards support to the students/ alumni
  1. 2021 - During COVID times the alumni association collected funds and arranged seven oxygen concentrators for the use of alumni and their relatives in various cities. These seven oxygen concentrators were kept in Kota, Jaipur, Udaipur, Jodhpur, Noida, Pune and Bangalore for easy access to the needy alumni.
  2. 2019 – Alumni association collected funds and contributed to one of the alumni Praveen Kumar Vashishtha who has incurred heavy losses in the business and was finding difficulty in payment of housing EMIs. An amount of Rs. 7 lacs was contributed to the needy alumni.
  3. 2021 - One of the alumni Surendra Garg was suffering from cancer and later unfortunately he died due to the disease. The alumni association came forward in arranging funds for the treatment and later for the financial support to the family. An amount of Rs. 7 lacs was contributed by the alumni association.
  4. 2022 - Alumni association with the help of one of the alumni Ajay Soni organised rescue camp for the Ukrainian refugees at Hungary border. The camp provided food and shelter to the Indo-Ukrain refugees.
  5. 2018 – Alumni contributed and contributed to the family of an alumna upon the death of an alumna Mr. Jain.
  6. 2021 – Alumni association has contributed funds towards the cancer treatment of one of the alumni Mr. Hansraj Bairwa.
  7. 2020 - Alumni association contributed funds and helped in rehabilitation of the family of one of the alumni Agarwal after his death due to COVID.
8. Alumni contribution in arranging for fees for the needy students specially during COVID times.
  1. Alumni have come forward wholeheartedly in arranging for the fees of needy and COVID affected students of the institute and have paid fees of more than 12 students in last 2 years.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**5.4.2****Alumni contribution during the last five years (INR in Lakhs)****Response:** C. 20 Lakhs - 50 Lakhs

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for any additional information	<a href="#">View Document</a>

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

#### 6.1.1

**The institution has a clearly stated vision and mission which are reflected in its academic and administrative governance.**

#### Response:

##### Vision

To be an eminent institute of technical education and research through academic excellence and innovation to serve the needs of industry and society

##### Mission

- To provide quality education with focus on practical knowledge and ethics.
- To maintain a student support system for their professional growth to compete globally.
- To promote an environment conducive for innovation, entrepreneurship development and research.

Each deaprtmemnts has its own vision and mission in alignment with the overall vision and mission of institute.

We are constantly procuring equipments to provide facility to students.

Our students support systems is catered by three sections: Proctor, Exam, and Training section. Our endeavor for the pofesional growth of students is shows by their selections.

An IPR policy is approved by board and uploded on website.

The faculty is motivated and bring projects from outsideside the world.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

#### 6.1.2

**The effective leadership is reflected in various institutional practices such as decentralization and participative management.**

**Response:**

Rajasthan Technical University Kota was established by the state government and The Rajasthan Technical University Act, 2006 (Act No 8 of 2006) was notified in the Rajasthan Gazette on April 9, 2006.

**A. Governing bodies of RTU, composition and functions**

**1. Board of Management:**

Headed by Vice chancellor as chairmen and having maximum of 18 members including 4 ex-officio members and members from State Government, Educationists, Legislative member Representatives, faculty representatives etc.

Functions of BoM includes approval of budget of University, to administer property and funds of the university, accept and transfer immovable property of university, manage investments of the university etc.

**2. The Academic Council:**

Headed by Vice chancellor as ex-officio chairmen and having Dean of Faculties, Professors, Subject experts, Academicians, Industry Representatives as members and Registrar as member secretary.

Functions of Academic council includes review of various courses offered by University, to recommend new courses meeting futuristic demands of Society, empanelment of Various subject experts for Board of Studies, evaluate academic proposals of Board of Studies etc.

**3. The Finance committee:**

Headed by Vice chancellor as chairmen and having State Govt. representatives, Pro-vice Chancellor, Registrar, Controller of Examination as members and Finance Officer as member secretary.

Function of Finance committee is to advise the BoM in matters relating to administration of property and funds of the University. It also advises with regard to Income and resources of the university. It suggests the limits of recurring and non-recurring expenditures of University, within a financial year.



#### 4. The Examination committee:

The composition is as provided by the ordinance of the university. The committee functions include appointment of examiners, review of examination results, recommendation to Academic council for improvements in examination system and declaration of results.

#### 5. Board of Studies:

Comprises of University Professors and Subject experts available within and outside the Department. It has Industry representatives nominated by academic council.

Function is to review the Scheme and syllabus, teaching plan, Credits system etc. of the programs offered by the department.

#### B. University Departments:

1. Board of Studies: BOS decides the curriculum of all UG and PG programs. There are separate BOS for each major branch of Engineering. Its recommendations are put up in Academic Council.

2. Academic Council :Recommendation of all BOS are discussed in Academic Council. The recommendations of Academic Council are put up in BOM of RTU for final approval.

#### C. Administrative Set up of University Departments

There are five academic departments namely Computer Science & Engineering, Civil, Electrical, Electronics and Communication, Mechanical and Humanities, English & Applied sciences (HEAS). Dean (Faculty Affairs) is responsible for general administration and all academic affairs and conducts meeting of Heads of department to decide the matters of the departments. The student service system consists of different units namely Chief Proctor Office, Examination Section, Training & Placement, Sports and Library.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## 6.2 Strategy Development and Deployment

### 6.2.1

**The institutional Strategic plan is effectively deployed.**

**Response:**

The institute strategic plan is approved in 2019 includes short (3 years) and long (6 years) term plans. It includes following categories

- A. Administration and Management
- B. Academics
- C. Infrastructure
- D. Digital Campus
- E. Collaborations for Learning and Upgradation
- F. Start-up Innovation
- G. Goals

The detailed plan and deployment activities are available at institute website.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

### 6.2.2

**The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules and procedures, etc.**

**Response:**

Rajasthan Technical University Kota was established by the state government and The Rajasthan Technical University Act, 2006 (Act No 8 of 2006) was notified in the Rajasthan Gazette on April 9, 2006. The institute is growing under the leadership Hon'ble Vice Chancellor appointed by Hon'ble Chancellor, Rajabhawan, jaipur, Rajasthan. The organization structure of institute is as given below

**A. Governing bodies of RTU, composition and functions**

**1. Board of Management:** Headed by Vice chancellor as chairman and having maximum of 18

members including 4 ex-officio members and members from State Government, Educationists, Legislative member Representatives, faculty representatives etc. Functions of BoM includes approval of budget of University, to administer property and funds of the university, accept and transfer immovable property of university, manage investments of the university etc.

**2. The Academic Council:** Headed by Vice chancellor as ex- officio chairman and having Dean of Faculties, Professors, Subject experts, Academicians, Industry Representatives as members and Registrar as member secretary. Functions of Academic council includes review of various courses offered by University, to recommend new courses meeting futuristic demands of Society, empanelment of Various subject experts for Board of Studies, evaluate academic proposals of Board of Studies etc.

**3. The Finance committee:** Headed by Vice chancellor as chairman and having State Govt. representatives, Pro- vice Chancellor, Registrar, Controller of Examination as members and Finance Officer as member secretary. Function of Finance committee is to advise the BoM in matters relating to administration of property and funds of the University.

**4. The Examination committee:** The committee functions include appointment of examiners, review of examination results, recommendation to Academic council for improvements in examination system and declaration of results.

**5. The Faculties:** Dean of the faculty is the chairman of the faculty.

#### **6. Board of Studies:**

Comprises of University Professors and Subject experts available within and outside the Department.

#### **7. Board of Governors (TEQIP) and Board of Governors (RUSA) for University Department**

#### **B. Teaching Departments and Official Units**

There are six academic departments namely Computer Science & Engineering, Civil, Electrical, Electronics and Communication, Mechanical and Humanities, English & Applied sciences (HEAS). Dean (Faculty Affairs) is responsible for general administration and all academic affairs. and conducts meeting of Heads of department to decide the matters of the departments. The student service system consists of different units namely Chief Proctor Office, Examination Section, Training & Placement, Sports and Library.

#### **C. Rules, Procedures, Recruitment and Promotional Policies, etc.,**

The rules and policies regarding recruitment and promotion of teaching staff are as per AICTE. Other service rules applicable to teachers are RTU rules, University of Rajasthan statutes and Rajasthan Service Rules in accordance with the letter from the Governor. The service rules, recruitment and promotional policies for non-teaching staff are as per the state government rules for respective cadres.

File Description	Document
Link to Organogram of the University webpage	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 6.2.3

#### Institution Implements e-governance covering following areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

**Response:** B. 3 of the above

File Description	Document
Screen shots of user interfaces	<a href="#">View Document</a>
Details of implementation of e-governance in areas of operation, Administration etc (Data Template)	<a href="#">View Document</a>

## 6.3 Faculty Empowerment Strategies

### 6.3.1

**The institution has a performance appraisal system, promotional avenues and effective welfare measures for teaching and non-teaching staff .**

**Response:**

Faculty members are permitted to pursue research in their area of interest. The institute provides facility and money to the faculty for their research activities. Also, every faculty member is encouraged to undertake consultancy work in their area of expertise.

Faculty contribution with regard to paper publication, book publication, project received, research accomplishment, obtaining of patents etc. are duly recognized and honored.

Non-teaching staff are encouraged to acquire additional skills and qualifications.

Following parameters are taken for performance based appraisal system (PBAS) system for faculties:

### I . TEACHING, LEARNING AND EVALUATION RELATED ACTIVITIES

- Lectures, seminars, tutorials, practicals. contact hours
- Reading/Instructional material consulted and additional knowledge resources provided to students
- Use of participatory and innovative teaching-learning methodology, updating of subject content, course improvement etc.
- Examination Duties Assigned and Performed

### II. CO-CURRICULAR, EXTENSION, PROFESSIONAL DEVELOPMENT RELATED ACTIVITIES

- Extension, Co-curricular & field based activities Total
- Contribution to corporate life and management of the institution
- Professional Development Activities

### III. RESEARCH, PUBLICATIONS AND ACADEMIC CONTRIBUTIONS

- Published papers in journals
- Article / chapter published in books
- Ongoing and completed research project and consultancies
- Research guidance
- Training courses, teaching-learning-evaluation technology programmes, faculty development programmes
- Invited lectures and chairmanship at national or international conference/seminar etc.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

#### 6.3.2

**Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the last five years.**

**Response:** 3.39

**6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
7	17	1	1	1

File Description	Document
Details of teachers provided with financial support to attend conferences, workshops etc. during the last five years (Data Template)	<a href="#">View Document</a>

### 6.3.3

**Average number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the last five years.**

**Response:** 13.2

**6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
15	14	12	8	17

File Description	Document
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 6.3.4

**Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course ).**

**Response:** 14.12

**6.3.4.1 Total number of teachers attending professional development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development**

**Programmes year wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17

<b>File Description</b>	<b>Document</b>
Details of teachers attending professional development Programmes during the last five years (Data Template)	<a href="#">View Document</a>

**6.4 Financial Management and Resource Mobilization****6.4.1****Institutional strategies for mobilisation of funds and the optimal utilisation of resources****Response:**

The institute has following funds-

1. Rajasthan Technical University (RTU) Fund
2. Technical Education Quality Improvement Programme (TEQIP) Fund
3. Rashtriya Uchcharat Shiksha Abhiyan (RUSA) Fund
4. Sponsored R & D Projects
5. Consultancy Projects.

All the funds are utilized after approval from competent authorities such as Hon'ble Vice Chancellor, Registrar, Fiancé officer , Dean FA . Fund utilization are as follows –

S. No.	Name of the fund	Approved Amount (Rs.)	Utilized Amount (Rs.)	% Utilization
1	TEQIP Fund	17,52,17,018	16,68,53,481	95.23%
2	RUSA Fund	10,00,00,00	7,36,00,000	73.60%
3	RTU Fund (2020-21)	13579.91 lakh	7100.68 lakh	52.29 % (up to Dec 2021)

<b>File Description</b>	<b>Document</b>
Link for Additional Information	<a href="#">View Document</a>

**6.4.2****Funds / Grants received from government bodies during the last five years for development and**

**maintenance of infrastructure (not covered under Criteria III and V ) (INR in Lakhs).**

**Response:** 3563

**6.4.2.1 Total Funds / Grants received from government bodies for development and maintenance of infrastructure (not covered under Criteria III and V) year wise during the last five years (INR in Lakhs).**

2020-21	2019-20	2018-19	2017-18	2016-17
791	791	775	670	536

File Description	Document
------------------	----------

Details of Funds / Grants received from government bodies during the last five years (Data Template)	<a href="#">View Document</a>
------------------------------------------------------------------------------------------------------	-------------------------------

Annual statements of accounts	<a href="#">View Document</a>
-------------------------------	-------------------------------

Link for Additional Information	<a href="#">View Document</a>
---------------------------------	-------------------------------

### 6.4.3

**Funds / Grants received from non-government bodies, individuals, philanthropists during the last five years (not covered in Criterion III and V) (INR in Lakhs)**

**Response:** 49.22

**6.4.3.1 Total Grants received from non-government bodies, individuals, Philanthropers year wise during the last five years (INR in Lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
2.50	5.92	17.40	9.50	13.90

File Description	Document
------------------	----------

Institutional data in prescribed format	<a href="#">View Document</a>
-----------------------------------------	-------------------------------

### 6.4.4

**Institution conducts internal and external financial audits regularly**

**Response:**



Institute conducts internal and external financial audits on regular basis. In this audit various section and departments of university are covered. The audit report is in public domain and is displayed on website of the University. Internal Audit is conducted by chartered accountant every year, whereas the external audit is conducted by various agencies from government. Rules of various act e.g. Income Tax Act, Provident Fund Act, GST Act etc. applicable on university have been complied upon by university during the year under Audit. C&AG audit till the F.Y were done and reports are also under the consideration.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## 6.5 Internal Quality Assurance System

### 6.5.1

**Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes by constantly reviewing the teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals.**

#### Response:

IQAC cell has been constituted at institute level and continues exercise has been carried out to improve the teaching learning process.

CO attainment Procedure has been finalized at institute level.

Guidelines for rubrics has been issued at institutional level.

Quality initiatives like commendation for faculties contributing significantly in teaching and research has been initiated.

Feed back of current students & Alumni has been regularly taken for improvement in teaching learning process.

File Description	Document
Any additional information	<a href="#">View Document</a>

### 6.5.2

**Institution has adopted the following for Quality assurance**

**1. Academic Administrative Audit (AAA) and follow up action taken**

**2.Confernces, Seminars, Workshops on quality conducted**

**3. Collaborative quality initiatives with other institution(s)**

**4.Orientation programme on quality issues for teachers and students**

**5. Participation in NIRF**

**6.Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA).**

**Response:** A. Any 5 or more of the above

<b>File Description</b>	<b>Document</b>
Upload e-copies of the accreditations and certifications	<a href="#">View Document</a>
Upload details of Quality assurance initiatives of the institution (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Paste web link of Annual reports of University	<a href="#">View Document</a>

### 6.5.3

**Incremental improvements made for the preceding five years with regard to quality (in case of first cycle), Post accreditation quality initiatives (second and subsequent cycles).**

**Response:**

1.Digital-Classroom facilities are developed to every department for a conductive learning/ interaction between faculty and student.

2.Industrial visits are arranged periodically by the department to give the students a practical knowledge and exposure to industrial practice.

3.The institute has a comprehensive training and placement department. Placement data for last five years are as follows

<b>Academic Year</b>	<b>No. of students graduating in</b>	<b>No. of students placed</b>	<b>% Placements</b>

	<b>minimum stipulated time</b>		
2016-17	570	556	97.54
2017-18	570	565	99.12
2018-19	513	238	44.44
2019-20	471	224	47.55
2020-21	463	218	47.08

4. The institute has got accredited total eight UG programmes by NBA-

#### **NBA Accreditation**

<b>Name of the accredited program</b>	<b>Valid from</b>	<b>Valid upto</b>
B Tech Electrical Engineering	01-07-2019	30-06-2022
B Tech Civil Engineering	01-07-2021	0-06-2024
B Tech Computer Science and Engineering	01-07-2021	0-06-2024
B Tech Electronic Instrumentation & Control Engineering	01-07-2021	0-06-2024
B Tech Production & Industrial Engg	01-07-2021	0-06-2024
B Tech Mechanical Engineering	01-07-2021	0-06-2024
B Tech Information Technology	01-07-2021	0-06-2024
B Tech Electronics and Communication Engineering	01-07-2021	0-06-2024

5. The major improvement took place in the following aspects-

- IPR policy of the institute has been approved by the board.
- Start-up policy has been drafted.
- Revision of curriculum of B Tech., M.Tech. & M.B.A and Implementation of CBCS (Credit based choice system) Regulations.
- IQAC cell has been constituted at institute level and continues exercise has been carried out to improve the teaching learning process.

## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

#### 7.1.1

**Measures initiated by the Institution for the promotion of gender equity during the last five years.**

**Response:**

UD champions an empathetic approach, endeavoring to raise the consciousness of the students about how gender-based inequalities, neglect of environmental concerns and lack of ethics hamper an individual's growth. This allows the students to participate in society as mindful individuals. As a leading Technical institute, the vision rests on providing technical quality education in a gender sensitive safe space for the students. The pedagogy of gender sensitization is not limited to classrooms alone. UD is proud of its dynamic campus atmosphere, which encourages students to think critically, act quickly, and live completely. The institution has hosted a number of gender-related talks and webinars. Faculty members are crucial in creating gender awareness on campus. Throughout the year, lectures, seminars, and workshops are held with the goal of providing an intersectional approach to raising awareness among students about the inequities that confronts all genders. The focus of is to provide adequate space for students to engage in open discussions and think critically on various issues such as: women and labour, gender and sexuality, domestic violence etc. UD has an active Internal Complaints Committee, a statutory body formed to register complaints of harassment and to undertake formal proceedings to resolve them. UD has been cognizant of the view that gender sensitization and messages of gender equality cannot be imparted in isolation from the larger community by organizing webinars for all. The institute conducts regular gender equity promotion programs. Guest speakers from prominent field are invited to speak on the given topic which highlights the importance and contribution of women in the society for instance an expert lecture was delivered by Dr. ManjuMandot, Director JNV, Rajasthan Vidyapeeth University, Udaipur on Women Safety on 3.08.2019 in Seminar Hall, PTP, UD under TEQIP-III. A webinar was organized by coordinators Prof Annapurna Bhargav, Prof. ManishaVyas, and Dr. IrumAlvi on Gender Equality in which Ms. Amrita Dahun, IPS, RJ Savi, and MS. Anita Chauhan (Social Worker) discussed in significance of gender equality.

**Security And Safety** CCTV cameras have been installed in the college premises for security and safety for all particularly girls. There is zero tolerance to ragging on campus. Anti-ragging Committee and senior students ensure that no newly enrolled student is subjected to ragging. Other security measures include Guards, as well as women guard stationed at strategic locations in the college premises, Security checkpoints at all campus entries and exits, Extensive surveillance network, Rotational duty by all faculty members for discipline and security, The Proctorial Committee includes male and female proctor, Night Patrols, Strict implementation of Anti-Ragging and Anti-Smoking, Awareness campaigns on women safety and gender, Separate hostels for boys and girls with dedicated wardens, etc.

**Counselling** facilities are available for all. Formal and informal avenues are available for counseling male and female students. Class and Proctorial Committees are available for counseling of both males and females students. Grievance Redressal Committees for staff and students, Medical Counseling, Moral Counseling, Career Counseling, etc. Gender equality and Gender sensitization workshops/webinars etc. Moreover, all students irrespective of gender participate in all events organized by the institute.

File Description	Document
Specific facilities provided for women in terms of: a.Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	<a href="#">View Document</a>
Annual gender sensitization action plan	<a href="#">View Document</a>

**7.1.2**

**The Institution has facilities for alternate sources of energy and energy conservation measures**

- 1.Solar energy**
- 2.Biogas plant**
- 3.Wheeling to the Grid**
- 4.Sensor-based energy conservation**
- 5.Use of LED bulbs/ power efficient equipment**

**Response:** C. 2 of the above

File Description	Document
Geotagged Photographs	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

**7.1.3**

**Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)**

- **Solid waste management**
- **Liquid waste management**
- **Biomedical waste management**
- **E-waste management**
- **Waste recycling system**
- **Hazardous chemicals and radioactive waste management**

**Response:**

**Solid Waste Management:**

Existing waste management methods in the campus are as follows:-

1. Dust bins are placed near to all location such as offices, departments, rooms, class rooms, hostel, staff colony, shopping center etc. for the waste segregation.
2. The segregated waste from the waste collection bins are collected regularly on daily basis.

3. The collected waste is dumped to nearby dump yards decided by municipality.

4. The university has also a vermicomposting yard for the treatment of bio degradable waste generated from herbal garden and from the college campus cleaning operations. The generated vermicompost is used in gardens for plants and trees.

#### **Liquid Waste Management:**

The sewerage treatment plant was installed in 1995 with the capacity of 0.5MLD. The treated water is used in the campus to fulfill the water demand for the plants and gardens.

<b>File Description</b>	<b>Document</b>
Geotagged photographs of the facilities	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

#### **7.1.4**

##### **Water conservation facilities available in the Institution:**

- 1. Rain water harvesting**
- 2. Borewell /Open well recharge**
- 3. Construction of tanks and bunds**
- 4. Waste water recycling**
- 5. Maintenance of water bodies and distribution system in the campus**

**Response:** D.1 of the above

<b>File Description</b>	<b>Document</b>
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

#### **7.1.5**

##### **Green campus initiatives include:**

- 1. Restricted entry of automobiles**
- 2. Use of Bicycles/ Battery powered vehicles**
- 3. Pedestrian Friendly pathways**
- 4. Ban on use of Plastic**
- 5. Landscaping with trees and plants**

**Response:** C. 2 of the above

<b>File Description</b>	<b>Document</b>
Various policy documents / decisions circulated for implementation	<a href="#">View Document</a>
Geotagged photos / videos of the facilities	<a href="#">View Document</a>
Any other relevant documents	<a href="#">View Document</a>

### 7.1.6

**Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:**

- 1.Green audit**
- 2.Energy audit**
- 3.Environment audit**
- 4.Clean and green campus recognitions / awards**
- 5.Beyond the campus environmental promotion activities**

**Response:** C. 2 of the above

<b>File Description</b>	<b>Document</b>
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View Document</a>
Certificates of the awards received	<a href="#">View Document</a>

### 7.1.7

**The Institution has disabled-friendly, barrier free environment**

- 1.Built environment with ramps/lifts for easy access to classrooms.**
- 2.Divyangjan friendly washrooms**
- 3.Signage including tactile path, lights, display boards and signposts**
- 4.Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment**
- 5.Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading**

**Response:** C. 2 of the above

<b>File Description</b>	<b>Document</b>
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>

**7.1.8**

**Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).**

**Response:**

UD emphasizes inclusionary practices at many levels, including its admissions policy, which admits students from a variety of communities and sub-communities/section of the society. Through student groups, the institute promotes and protects cultural, regional, linguistic, communal, and socioeconomic diversity. It helps students get scholarships in order to promote inclusion and diversity. Religious Values are valued and students of all religious beliefs are treated similarly. In the campus, the SPIC MACAY society invites notable personalities of all religious beliefs to perform, promote, and popularize Indian culture in the fields of dance, music, and theatre. Students irrespective of their religious background participate in Swachh Bharat Abhiyan, cleanliness drive, blood donation camps etc. actively. ANUKRITI, IEI students chapter activities, the cultural festival, THAR, the TechFest and all events ensure active participation by all sects of the society. UD inculcates values of inclusion and respect for people from all strata. It makes students keyagents in the process of empowering young minds through education. UD has adopted several neighboring villages, namely Dhoti, Chheporda and Morukala, Visits to such local and nearby places are scheduled during the Induction Programme. Remedial classes are conducted and have a book bank for SC/ST/OBC and other students who need additional help in English, Maths and Engineering subjects. To form the Engineering Students Forum (ESF), one student from top three students from each Class/ branch is selected irrespective of any social/cultural/demographic constraints. Different sports and cultural activities organized inside the college also promote harmony towards each other. Commemorative days like Women's day Yoga day, etc. which help in establishing positive interaction among people of different racial and cultural backgrounds. There are different grievance redressal cells in the institute like Student grievance cell, Women cell, Proctor's office, etc. which deal with grievances without considering anyone's racial or cultural background. All facilities available to the students are provided irrespective of their caste, creed, color, sex or socioeconomic background.

<b>File Description</b>	<b>Document</b>
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

**7.1.9**

**Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).**

**Response:**



UD has been committed to educating students as constitutionally aware citizens sensitized to their Fundamental Rights and Duties. Various programmes and activities are organized both by departments as well as clubs. To promote the ideal of the Swachh Bharat Abhiyan, UD organizes cleanliness drives like SwachhtaAhiyaan. International Yoga Day has been observed by the college through sessions on Yoga, which were fervently attended by faculty, staff and students. UD believes that promoting religious harmony is very important to maintain peace in our diverse society in accordance with the principle of secularism as enshrined in the Preamble of the Constitution. The same is the focal point of Induction programmes held for the newly admitted students, which have regular lectures on human values, to inculcate morals of liberty, equality and fraternity among the students. UD believes in giving holistic all round education to the students and sensitizing students on our constitutional rights, values, duties and responsibilities is one of the primary aims of the institute through various means. On 26th Nov 2020 following activities were organised: 10 AM- 11 AM-Constitution of India-Dr G R Khan- Govt Arts College, Kota; 11 AM- 11.55 AM-Cyber Security-ShTrilokMaheshwari, Alumni; 12 Noon – 1 PM-Citizens and Society- Additional Superintendent, Police, Kota- Sh. Rajesh Meel; 1 PM- 1.45 PM-Health Management in the COVID era- Dr Vinod Kumar, Associate Prof - Medical College Kota. Sensitization of students and employees of the Institution to the constitutional obligations is done through curriculum as well as through extra-curricular activities. Many of the subjects offered have topics which sensitize the students about the constitutional obligations e.g. Constitution, Universal Human Values (UHV), Human Values and Professional Ethics, etc. Seminars and workshops are conducted on days of national importance on various rights, duties and responsibilities of citizens from time to time. Seminars on topics like Right to Information, sexual harassment are conducted periodically, and Right to Information seminar, etc. categories of the act are explained. Pledge is taken during the Convocation. A Constitutional Park is under construction in the UD Campus. In short, the college constantly works upon to develop the students as better citizens of the country. UD faculty has always been in the practice of organizing activities that not only initiate but also motivate the students to adopt various practices that promote the “Unity in Diversity” of our motherland. The institute ensures that the students participate very enthusiastically in all such activities. A committee has been constituted for spreading awareness about the constitutional rights and duties comprising Prof. Manisha Vyas, Dr. Irum Alvi and Dr. Rajshri Tapariyawhich organizes several events such as Activities like poster making competition, etc., Essay writing competitions, Slogan writing contentions, etc. as well as Academic discussions at the institute from time to time which highlight the salience of national unity and social harmony.

#### 7.1.10

**The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.**

- 1. The Code of Conduct is displayed on the website**
- 2. There is a committee to monitor adherence to the Code of Conduct**
- 3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
- 4. Annual awareness programmes on Code of Conduct are organized**

**Response:** D. 1 of the above

#### 7.1.11

**Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).****Response:**

UD is one of the leading institutes of Technical education in Rajasthan. It celebrates National and International days enthusiastically every year. All staff members and students gather in the college to celebrate these days. **REPUBLIC DAY** is celebrated every year on 26th January in the college with great enthusiasm and pride. It is a day to remember when India's constitution came into force on 26 January 1950 completing the country's transition toward becoming an independent republic. **INDEPENDENCE DAY** is also celebrated on 15th August in the college with great enthusiasm, An Expert Lecture on India's Freedom Struggle was delivered by Mrs. Sorali, on Sat, Apr 17, 2021 which was attended by 170 students, who benefited from the comprehensive talk, particularly relating the freedom struggle with today's situation. **INTERNATIONAL WOMEN DAY** is also celebrated in our college on 8th March every year. The day is used to recognize women who have made significant contribution to the advancement of their gender. **INTERNATIONAL YOGA DAY (IYD)** is also celebrated on 21st June every year in the college. The day aims to raise awareness of many benefits of practicing yoga. It is celebrated to spread awareness about importance and effects of yoga. **TEACHERS DAY** is celebrated on 5th September every year to celebrate the birth anniversary of Dr. Sarvepalli Radhakrishnan. This day is celebrated to promote the values and principles of a true teacher. On teacher's day students perform different activities like singing competition, speech competition, poem recitation etc. to entertain teachers. Students offer their gratitude to the erudite faculty. **ENGINEER'S DAY** is celebrated on **15 September, 2019** to feel proud of the engineers of our country and to celebrate their achievements in each and every field of science and technology. In the economic progress and development of a country engineers play a very crucial role and contribution. All departments of institute organize various events in which students participate enthusiastically. **HINDI DIWAS** is also celebrated on 14th September by Hindi department. On this day, different activities like singing competition, speech competition, poem recitation etc. are organized in the college. The common birthday of Mahatma Gandhi and Lal Bahadur Shastri on 2nd October is commemorated as **SWACHHTA DIWAS**. Swachh Bharat Abhiyan was launched on 2nd October in order to honor Mahatma Gandhi's vision of clean India. It served as a great initiative in making students aware of the importance of cleanliness. Several activities and competitions such as best out of waste, plays, slogan writing, presentations, talks, Pledge, etc. were organized. An expert talk on "Swachhta-Personal, Physical, Societal" was delivered by Dr. Preeti Gupta (Professor and Head) Dept. of Community Medicine, Govt Medical College Kota to create awareness among the faculty and students on 23 Jan 2020. An Expert Talk on Gandhi's Vision on Technology: Nature and Significance was delivered by Prof. Prem Anand Mishra, Dean and HOD Faculty of Gandhian Studies, Gujarat Vidyapeeth Ahmedabad and Prof. Arun Kumar, Vardhman Mahaveer Open University, VMOU, Kota. 26th November is also celebrated as National Constitution Day to commemorate the adoption of the constitution of India by the constituent assembly of India. On this day, Dr. B. R. Ambedkar, the creator of the constitution is remembered.

File Description	Document
Geotagged photographs of some of the events	<a href="#">View Document</a>
Annual report of the celebrations and commemorative events for the last five years	<a href="#">View Document</a>

## 7.2 Best Practices

### 7.2.1

**Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.**

**Response:**

#### **1. Title of the Practice: Online Skill Development Plan**

#### **2. Objectives of the Practice:**

To set up a workforce that is proficient with the necessary skills and knowledge.

To enhance employability of the student and prepare him/her to face competitive environment.

To train the students in the fields of soft skills, communication skills, intrapersonal skills and preparing them to face interviews and get better placement.

Involve the students' right from first year to final year to understand the importance of career building, industrial jobs and entrepreneurship

**3. Context:** Skilled engineers yield higher productivity and have the ability to work effectively and efficiently. In this context, the institute has taken initiatives to provide skill development courses and has provided the required platform like Coursera/Swayam/NPTEL Certification as well as institutes own channels on YouTube as well as LMS platforms.

**4. Practice:** All the students and faculty are provided the necessary logins and official email addresses. Practice Tests and Talent Tests are conducted periodically for better assessment of the students. Using Coursera/Swayam/NPTEL students can acquire Course Completion Certificates from World Top Universities/IITs/Nits/IIITS etc.

#### **5. Evidence of Success:**

(i) Placements have been improved during the last few years.

(ii) Using Coursera/Swayam/NPTEL Platform, hundreds of certifications courses have been completed by the students.

#### **6. Problems encountered and resources required**

(i) Training of faculty

(ii) To develop framework for conducting online skill development programmes

(iii) For success of such practices require attitude and willingness on the part of the facilitator without

which it is difficult to motivate students which is the target audience of the Institute.

(iv) Degree of motivation required in the minds of the students can result in success of such practices.

**7. Outcome:** Successful completion of certification programmes from world famous universities and grabbing placement opportunities in good companies

**1. Title of the Practice: Industrial Visits, Tours and Training.**

**2. Objectives of the Practice:**

To correlate technical knowledge with Practical knowledge and skills

To prepare the future engineers to meet out the requirements and become aware of the recent technologies and have firsthand experience

To promote direct industry linkages with the departments and enhance In-plant training, Industry visits, field/site visits, Industry projects and Internship's opportunities to the students and also to train the faculty in the recent advancements

To involve students and faculty in testing and consultancy activities for governmental and nongovernmental organizations and provide solutions for industrial /societal problems

**3. The Context:**

Scheduling more visits to industries for providing exposure to industrial practices in the academic calendar

Establishing relationship with reputed industries required prolonged and consistent efforts and involvement of faculty

Bringing experts from industry to teach a part of the syllabus

Increasing the allowances / pay offered to the students during trainings/ internships

Making travel arrangements to remote sites / far off places for industrial visits where industries / huge infrastructure projects are under progress

Ensuring safety at work places during student's visit / training

**4. Practice:** All the students and faculty are provided the necessary facilities for the same.

**5. Evidence of Success:**

(i) Placements have been improved during the last few years.

(ii) Students have acquired new skills and experience.

(iii) Students have clarity and have hands on training

### 6. Problems encountered and resources required

Establishing relationship with reputed industries takes at least a year. Follow up activities becomes a challenging one.

Finding slots with industries for student /faculty training during summer and winter vacations and for field visits are becoming difficult.

All industries are not ready to pay stipend during internship period for students

**7. Outcome:** Successful industrial tours to several industries

File Description	Document
Any other relevant information	<a href="#">View Document</a>

## 7.3 Institutional Distinctiveness

### 7.3.1

**Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words**

**Response:**

The institute has highly educated and erudite and experienced faculty. Most of the faculty have acquired higher education (PhD/MTech) from IITs and NITs. Due to which, rich research culture and high quality education is provided to the students.

## 5. CONCLUSION

---

### **Additional Information :**

Rajasthan Technical University Kota is a state University established by an Act of Rajasthan Legislature in 2006. Erstwhile Engineering College Kota, which was working since 1981 got merged in it through an order of state Govt in 2006 with its faculty, and other employees.

### **Concluding Remarks :**

Rajasthan Technical University Kota is catering to development of technical personnel, which become able for taking up challenges of global, national and regional levels. 37 degree programs including 11 UG, 13 PG and PhD in 13 disciplines are offered. Faculty are well qualified and experienced. More than 75 % of the faculty are PhD. We have large alumni base working all over the globe. Many of the alumni supports the poor students financially to meet their Institute fees every year. Performance of the students in state level and national level competitions is good. Due to high merit in GATE exam, many of our graduates got PSU jobs in last five years. Our alumni of 2018 topped the merit list based on state level exam and interview for the post of Assistant Engineer conducted by Rajasthan Public Service commission. One of our students got selected in Microsoft with a package of Rs 44 Lacs recently. Our students got selected and were sent to visit silicon valley in 2018 by Central Govt. Eight of the eleven UG programs offered by the University are NBA Accrediated presently. We have two adopted villages, wherein our faculty, staff and students interact with the residents, sensitise for hygiene, gender equity, sustainability, technology upgradation etc and work for their upliftment.

## 6.ANNEXURE

### 1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.1.2	<p><b>Percentage of Programmes where syllabus revision was carried out during the last five years.</b></p> <p>1.1.2.1. <b>How many Programmes were revised out of total number of Programmes offered during the last five years</b>            Answer before DVV Verification : 37            Answer after DVV Verification: 25</p> <p>1.1.2.2. <b>Number of all Programmes offered by the institution during the last five years.</b>            Answer before DVV Verification : 37            Answer after DVV Verification: 25</p>																				
1.1.3	<p><b>Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years</b></p> <p>1.1.3.1. Number of courses having focus on employability/ entrepreneurship/ skill development year-wise during the last five years            Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>25</td> <td>55</td> <td>60</td> <td>75</td> <td>70</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>48</td> <td>37</td> <td>39</td> <td>41</td> <td>37</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	25	55	60	75	70	2020-21	2019-20	2018-19	2017-18	2016-17	48	37	39	41	37
2020-21	2019-20	2018-19	2017-18	2016-17																	
25	55	60	75	70																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
48	37	39	41	37																	
1.2.1	<p><b>Percentage of new courses introduced of the total number of courses across all programs offered during the last five years.</b></p> <p>1.2.1.1. <b>How many new courses were introduced within the last five years.</b>            Answer before DVV Verification : 70            Answer after DVV Verification: 121</p> <p>1.2.1.2. <b>Number of courses offered by the institution across all programmes during the last five years.</b>            Answer before DVV Verification : 725            Answer after DVV Verification: 1256</p>																				
1.2.2	<p><b>Percentage of Programmes in which Choice Based Credit System (CBCS) / elective course system has been implemented (Data for the latest completed academic year).</b></p> <p>1.2.2.1. <b>Number of Programmes in which CBCS / Elective course system implemented.</b>            Answer before DVV Verification : 24            Answer after DVV Verification: 24</p>																				

1.3.2	<p><b>Number of value-added courses for imparting transferable and life skills offered during last five years.</b></p> <p>1.3.2.1. <b>How many new value-added courses are added within the last five years.</b>          Answer before DVV Verification : 20          Answer after DVV Verification: 10</p>																				
1.3.3	<p><b>Average Percentage of students enrolled in the courses under 1.3.2 above.</b></p> <p>1.3.3.1. <b>Number of students enrolled in value-added courses imparting transferable and life skills offered year-wise during the last five years.</b>          Answer before DVV Verification:</p> <table border="1" data-bbox="308 629 1046 763"> <tr> <td>2020-21</td> <td>2019-20</td> <td>2018-19</td> <td>2017-18</td> <td>2016-17</td> </tr> <tr> <td>570</td> <td>570</td> <td>570</td> <td>570</td> <td>570</td> </tr> </table> <p>Answer After DVV Verification :</p> <table border="1" data-bbox="308 842 1046 976"> <tr> <td>2020-21</td> <td>2019-20</td> <td>2018-19</td> <td>2017-18</td> <td>2016-17</td> </tr> <tr> <td>100</td> <td>80</td> <td>70</td> <td>50</td> <td>0</td> </tr> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	570	570	570	570	570	2020-21	2019-20	2018-19	2017-18	2016-17	100	80	70	50	0
2020-21	2019-20	2018-19	2017-18	2016-17																	
570	570	570	570	570																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
100	80	70	50	0																	
1.3.4	<p><b>Percentage of students undertaking field projects / research projects / internships (Data for the latest completed academic year).</b></p> <p>1.3.4.1. <b>Number of students undertaking field projects or research projects or internships.</b>          Answer before DVV Verification : 570          Answer after DVV Verification: 95</p>																				
1.4.1	<p><b>Structured feedback for design and review of syllabus – semester-wise / year-wise is received from</b></p> <p><b>1) Students, 2) Teachers, 3) Employers,</b></p> <p><b>4) Alumni</b></p> <p>Answer before DVV Verification : C. Any 2 of the above          Answer After DVV Verification: A. All 4 of the above</p>																				
1.4.2	<p><b>Feedback processes of the institution may be classified as follows:</b></p> <p>Answer before DVV Verification : B. Feedback collected, analysed and action has been taken          Answer After DVV Verification: B. Feedback collected, analysed and action has been taken</p>																				
2.1.1	<p><b>Demand Ratio (Average of last five years)</b></p> <p>2.1.1.1. <b>Number of seats available year wise during the last five years</b>          Answer before DVV Verification:</p> <table border="1" data-bbox="308 1973 1046 2085"> <tr> <td>2020-21</td> <td>2019-20</td> <td>2018-19</td> <td>2017-18</td> <td>2016-17</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	2020-21	2019-20	2018-19	2017-18	2016-17															
2020-21	2019-20	2018-19	2017-18	2016-17																	



846	846	846	846	846
-----	-----	-----	-----	-----

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
845	846	846	846	846

2.3.3 **Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year )**

2.3.3.1. **Number of mentors ?????????????? ???????**

Answer before DVV Verification : 161

Answer after DVV Verification: 49

2.4.2 **Average percentage of full time teachers with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D’Lit. year-wise during the last five years**

2.4.2.1. **Number of full time teachers with *Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt.* year wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
68	65	62	58	52

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
66	63	57	57	54

2.4.3 **Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)**

2.4.3.1. **Total experience of full-time teachers**

Answer before DVV Verification : 2084.55

Answer after DVV Verification: 2037

2.4.4 **Average percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the last five years**

2.4.4.1. **Number of full time teachers receiving awards from state /national /international level from Government/Govt. recognized bodies year wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
06	03	08	01	03

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
01	01	07	01	01

2.5.1 **Average number of days from the date of last semester-end/ year- end examination till the declaration of results year-wise during the last five years**

2.5.1.1. **Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
52	86	77	91	112

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
53	86	77	82	102

2.5.2 **Average percentage of student complaints/grievances about evaluation against total number appeared in the examinations during the last five years**

2.5.2.1. **Number of complaints/grievances about evaluation year wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
00	00	02	01	02

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
25	94	362	597	603

2.5.4 **Status of automation of Examination division along with approved Examination Manual**

Answer before DVV Verification : Only student registration, Hall ticket issue & Result Processing

Answer After DVV Verification: Only student registration, Hall ticket issue & Result Processing

2.6.3 **Pass Percentage of students(Data for the latest completed academic year)**

2.6.3.1. Total number of final year students who passed the examination conducted by Institution.

Answer before DVV Verification : 524

Answer after DVV Verification: 524

**2.6.3.2. Total number of final year students who appeared for the examination conducted by the Institution.**

Answer before DVV Verification : 655

Answer after DVV Verification: 661

Remark : Value has been changed as per HEI initial Input and EP metric 2.2 (number of outgoing / final year students for the latest completed academic year)

**3.1.2 The institution provides seed money to its teachers for research (average per year, INR in Lakhs)**

**3.1.2.1. The amount of seed money provided by institution to its faculty year-wise during the last five years (INR in lakhs).**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
0	220.01	0	0	0

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

**3.1.3 Percentage of teachers receiving national / international fellowship / financial support by various agencies for advanced studies / research during the last five years.**

**3.1.3.1. The number of teachers who received national / international fellowship / financial support by various agencies for advanced studies / research year-wise during the last five years.**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
1	3	7	0	0

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
2	1	6	0	0

**3.1.4 Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the last five years.**

**3.1.4.1. The Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other research fellows enrolled in the institution year-wise during the last five years.**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17

11	13	17	14	12
----	----	----	----	----

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
30	30	37	21	0

**3.1.5 Institution has the following facilities to support research**

1. **Central Instrumentation Centre**
2. **Animal House/Green House**
3. **Museum**
4. **Media laboratory/Studios**
5. **Business Lab**
6. **Research/Statistical Databases**
7. **Mootcourt**
8. **Theatre**
9. **Art Gallery**
10. **Any other facility to support research**

Answer before DVV Verification : A. 4 or more of the above

Answer After DVV Verification: B. 3 of the above

**3.2.2 Grants for research projects sponsored by the government agencies during the last five years (INR in Lakhs).**

**3.2.2.1. Total Grants for research projects sponsored by the government agencies year-wise during the last five years (INR in Lakhs).**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
0	382.14	0	28.1	0

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
0	187.06	0	0	0

**3.2.3 Number of research projects per teacher funded by government and non-government agencies during the last five years**

**3.2.3.1. Number of research projects funded by government and non-government agencies during the last five years.**

Answer before DVV Verification : 33

Answer after DVV Verification: 43

**3.2.3.2. Number of full time teachers worked in the institution year-wise during the last five years..**

Answer before DVV Verification : 122

3.3.2 **Number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development during the last five years.**

3.3.2.1. **Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year-wise during the last five years.**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
4	2	3	4	3

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
3	2	3	4	3

3.3.3 **Number of awards / recognitions received for research/innovations by the institution / teachers / research scholars / students during the last five years.**

3.3.3.1. **Total number of awards / recognitions received for *research* / innovations won by institution / teachers / research scholars / students year-wise during the last five years.**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
4	2	1	1	0

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
4	2	1	1	0

3.4.1 **The Institution ensures implementation of its stated Code of Ethics for research through the following:**

- 1. Inclusion of research ethics in the research methodology course work**
- 2. Presence of Ethics committee**
- 3. Plagiarism check through software**
- 4. Research Advisory Committee**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: B. 3 of the above

Remark : DVV has updated the data as per the documents provided by the HEI

3.4.2	<p><b>The institution provides incentives to teachers who receive state, national and international recognitions/awards</b></p> <p><b>1. Commendation and monetary incentive at a University function</b></p> <p><b>2. Commendation and medal at a University function</b></p> <p><b>3. Certificate of honor</b></p> <p><b>4. Announcement in the Newsletter / website</b></p> <p>Answer before DVV Verification : C. 2 of the above Answer After DVV Verification: D. 1 of the above</p>																				
3.4.3	<p><b>Number of Patents published / awarded during the last five years.</b></p> <p><b>3.4.3.1. Total number of Patents published / awarded year-wise during the last five years.</b> Answer before DVV Verification:</p> <table border="1" data-bbox="304 831 1046 965"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>5</td> <td>2</td> <td>1</td> <td>1</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1" data-bbox="304 1043 1046 1178"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4</td> <td>5</td> <td>4</td> <td>1</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	4	5	2	1	1	2020-21	2019-20	2018-19	2017-18	2016-17	1	4	5	4	1
2020-21	2019-20	2018-19	2017-18	2016-17																	
4	5	2	1	1																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
1	4	5	4	1																	
3.4.4	<p><b>Number of Ph.D's awarded per teacher during the last five years.</b></p> <p><b>3.4.4.1. How many Ph.D's are awarded within last five years.</b> Answer before DVV Verification : 58 Answer after DVV Verification: 55</p> <p><b>3.4.4.2. Number of teachers recognized as guides during the last five years</b> Answer before DVV Verification : 70 Answer after DVV Verification: 70</p> <p>Remark : DVVV has excluded the data for the session 2021-22</p>																				
3.4.5	<p><b>Number of research papers per teachers in the Journals notified on UGC website during the last five years</b></p> <p><b>3.4.5.1. Number of research papers in the Journals notified on UGC website during the last five years.</b> Answer before DVV Verification:</p> <table border="1" data-bbox="304 1895 1046 2029"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>121</td> <td>245</td> <td>117</td> <td>107</td> <td>73</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	121	245	117	107	73										
2020-21	2019-20	2018-19	2017-18	2016-17																	
121	245	117	107	73																	

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
189	130	139	107	73

**3.4.6 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years**

**3.4.6.1. Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
128	127	74	67	93

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
118	83	93	67	93

**3.5.2 Revenue generated from consultancy and corporate training during the last five years (INR in Lakhs).**

**3.5.2.1. Total amount generated from consultancy and corporate training year-wise during the last five years (INR in lakhs).**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
1153020	1584212	4368940	4577112	6376500

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
24.00	16.13	44.244	46.11	66.45

**3.6.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years**

**3.6.3.1. Number of extension and outreach programs conducted by the institution those through NSS/NCC, Government and Government recognised bodies during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
12	8	8	9	6

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
31	19	8	4	4

3.6.4 **Average percentage of students participating in extension activities listed at 3.6.3 above during the last five years**

3.6.4.1. **Total number of students participating in extension activities listed at 3.6.3 above year-wise during the last five years.**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
376	227	241	256	180

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
376	227	241	256	180

3.7.1 **Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year**

3.7.1.1. **Total number of Collaborative activities with other institutions / research establishment / industry for research and academic development of faculty and students year-wise during the last five years.**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
0	1	1	1	0

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
2	3	2	0	0

3.7.2 **Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.**

3.7.2.1. **Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research year-wise during the last five years.**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
4	0	6	12	3



Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
18	18	19	10	1

**4.1.4 Average percentage of expenditure for infrastructure augmentation excluding salary during the last five years (INR in Lakhs)**

**4.1.4.1. Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
341.63	26.15	223.65	1279.86	1548.81

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
341.63	26.15	223.65	1279.86	1548.81

**4.2.2 Institution has access to the following:**

- 1. e-journals**
- 2. e-ShodhSindhu**
- 3. Shodhganga Membership**
- 4. e-books**
- 5. Databases**
- 6. Remote access to e-resources**

Answer before DVV Verification : A. Any 4 or more of the above

Answer After DVV Verification: B. Any 3 of the above

**4.2.3 Average annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)**

**4.2.3.1. Annual expenditure for the purchase of books and journals including e-journals year-wise during last five years (INR in Lakhs)**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
110.97	77.6	115.8	115.7	56.5

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
4.67	77.65	115.14	115.75	54.63

Remark : DVV has updated the data as per the HEI clarification response

4.2.4 **Percentage per day usage of library by teachers and students ( foot falls and login data for online access) during the latest completed academic year**

4.2.4.1. **Number of teachers and students using library per day over last one year**

Answer before DVV Verification : 167

Answer after DVV Verification: 135

4.3.5 **Institution has the following Facilities for e-content development**

1. **Media centre**
2. **Audio visual centre**
3. **Lecture Capturing System(LCS)**
4. **Mixing equipments and softwares for editing**

Answer before DVV Verification : C. 2 of the above

Answer After DVV Verification: D. 1 of the above

4.4.1 **Average percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the last five years**

4.4.1.1. **Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
322.26	519.79	626.59	628.54	703.29

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
322.26	519.79	626.59	628.54	703.29

5.1.1 **Average percentage of students benefited by scholarships and freeships provided by the institution, Government and non-government agencies (NGOs) during the last five years (other than the students receiving scholarships under the government schemes for reserved categories).**

5.1.1.1. **Number of students benefited by scholarships and free ships provided by the**

**institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
385	388	436	407	378

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
384	388	436	407	378

Remark : As per documents provided by the HEI

**5.1.2 Average percentage of students benefited by career counseling and guidance for competitive examinations as offered by the Institution during the last five years.**

**5.1.2.1. Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
2304	2475	2388	2222	1859

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
1775	813	1265	1200	1320

**5.1.3 Following Capacity development and skills enhancement activities are organised for improving students capability**

**1. Soft skills**

**2. Language and communication skills**

**3. Life skills (Yoga, physical fitness, health and hygiene)**

**4. Awareness of trends in technology**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: B. 3 of the above

Remark : DVV has updated the data as per HEI clarification response

**5.1.4 The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases**

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: B. 3 of the above

Remark : As per documents provided by the HEI

5.2.1 **Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)**

5.2.1.1. **Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.) year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
137	73	67	65	62

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
50	50	50	50	50

5.2.1.2. **Number of students appearing in state/ national/ international level examinations (eg: IIT/JAM/ NET / SLET/ GATE/ GMAT/CAT,GRE/ TOEFL/ Civil Services/ State government examinations) year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
320	240	223	236	212

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
320	240	223	236	212

Remark : HEI has not provided qualifying certificate of the students, DVV is not able to verify the data.

5.2.3 **Percentage of student progression to higher education (previous graduating batch).**

5.2.3.1. **Number of outgoing student progressing to higher education.**

Answer before DVV Verification : 75

Answer after DVV Verification: 38

Remark : HEI has not provided the desired documents

5.3.1 **Number of awards / medals won by students for outstanding performance in sports / cultural activities at inter-university / state / national / international events (award for a team event should be counted as one) during the last five years.**

5.3.1.1. **Number of awards/medals won by students for outstanding performance in sports / cultural activities at inter-university / state / national / international events (award for a team event should be counted as one) year - wise during the last five years.**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
03	05	06	10	04

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
02	02	02	02	02

Remark : There was some clerical mistake during uploading the DVV inputs

5.3.3 **Average number of sports and cultural events / competitions organised by the institution per year**

5.3.3.1. **Number of sports and cultural events / competitions organised by the institution year - wise during the last five years.**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
00	53	05	22	27

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
00	04	04	01	00

5.4.2 **Alumni contribution during the last five years (INR in Lakhs)**

Answer before DVV Verification : C. 20 Lakhs - 50 Lakhs

Answer After DVV Verification: D. 5 Lakhs - 20 Lakhs

6.2.3 **Institution Implements e-governance covering following areas of operation**

1. **Administration**
2. **Finance and Accounts**
3. **Student Admission and Support**
4. **Examination**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: C. 2 of the above

**6.3.2 Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the last five years.**

**6.3.2.1. Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
07	17	1	1	1

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
7	17	1	1	1

**6.3.3 Average number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the last five years.**

**6.3.3.1. Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
15	14	12	8	17

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
15	14	12	8	17

**6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course ).**

**6.3.4.1. Total number of teachers attending professional development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes year wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
52	44	49	39	27

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
22	23	20	17	21

6.4.2 **Funds / Grants received from government bodies during the last five years for development and maintenance of infrastructure (not covered under Criteria III and V ) (INR in Lakhs).**

6.4.2.1. *Total Funds / Grants received from government bodies for development and maintenance of infrastructure (not covered under Criteria III and V) year wise during the last five years (INR in Lakhs).*

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
791	791	775	670	536

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
791	791	775	670	536

6.4.3 **Funds / Grants received from non-government bodies, individuals, philanthropists during the last five years (not covered in Criterion III and V) (INR in Lakhs)**

6.4.3.1. Total Grants received from non-government bodies, individuals, Philanthropers year wise during the last five years (INR in Lakhs)

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
3	11	18.25	9.35	13.9

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
2.50	5.92	17.40	9.50	13.90

6.5.2 **Institution has adopted the following for Quality assurance**

**1. Academic Administrative Audit (AAA) and follow up action taken**

**2.Confernces, Seminars, Workshops on quality conducted**

**3. Collaborative quality initiatives with other institution(s)**

**4.Orientation programme on quality issues for teachers and students**

	<p><b>5. Participation in NIRF</b></p> <p><b>6. Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA).</b></p> <p>Answer before DVV Verification : A. Any 5 or more of the above Answer After DVV Verification: B. 4 of the above</p>
7.1.4	<p><b>Water conservation facilities available in the Institution:</b></p> <ol style="list-style-type: none"> <li>1. Rain water harvesting</li> <li>2. Borewell /Open well recharge</li> <li>3. Construction of tanks and bunds</li> <li>4. Waste water recycling</li> <li>5. Maintenance of water bodies and distribution system in the campus</li> </ol> <p>Answer before DVV Verification : B. 3 of the above Answer After DVV Verification: D.1 of the above</p>
7.1.5	<p><b>Green campus initiatives include:</b></p> <ol style="list-style-type: none"> <li>1. Restricted entry of automobiles</li> <li>2. Use of Bicycles/ Battery powered vehicles</li> <li>3. Pedestrian Friendly pathways</li> <li>4. Ban on use of Plastic</li> <li>5. Landscaping with trees and plants</li> </ol> <p>Answer before DVV Verification : B. 3 of the above Answer After DVV Verification: C. 2 of the above</p>
7.1.6	<p><b>Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:</b></p> <ol style="list-style-type: none"> <li>1. Green audit</li> <li>2. Energy audit</li> <li>3. Environment audit</li> <li>4. Clean and green campus recognitions / awards</li> <li>5. Beyond the campus environmental promotion activities</li> </ol> <p>Answer before DVV Verification : C. 2 of the above Answer After DVV Verification: C. 2 of the above</p>
7.1.7	<p><b>The Institution has disabled-friendly, barrier free environment</b></p> <ol style="list-style-type: none"> <li>1. Built environment with ramps/lifts for easy access to classrooms.</li> <li>2. Divyangjan friendly washrooms</li> <li>3. Signage including tactile path, lights, display boards and signposts</li> <li>4. Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment</li> <li>5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading</li> </ol>



	<p>Answer before DVV Verification : C. 2 of the above          Answer After DVV Verification: C. 2 of the above</p>
7.1.10	<p><b>The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.</b></p> <ol style="list-style-type: none"> <li>1. <b>The Code of Conduct is displayed on the website</b></li> <li>2. <b>There is a committee to monitor adherence to the Code of Conduct</b></li> <li>3. <b>Institution organizes professional ethics programmes for students, teachers, administrators and other staff</b></li> <li>4. <b>Annual awareness programmes on Code of Conduct are organized</b></li> </ol> <p>Answer before DVV Verification : D. 1 of the above          Answer After DVV Verification: D. 1 of the above</p>

## 2.Extended Profile Deviations

ID	Extended Questions																				
1.1	<p><b>Number of programs offered year-wise for last five years</b></p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>37</td> <td>37</td> <td>37</td> <td>37</td> <td>37</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>25</td> <td>25</td> <td>25</td> <td>25</td> <td>25</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	37	37	37	37	37	2020-21	2019-20	2018-19	2017-18	2016-17	25	25	25	25	25
2020-21	2019-20	2018-19	2017-18	2016-17																	
37	37	37	37	37																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
25	25	25	25	25																	
1.2	<p><b>Number of departments offering academic programmes</b>            Answer before DVV Verification : 5            Answer after DVV Verification : 5</p>																				
2.1	<p><b>Number of students year-wise during last five years</b></p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>2535</td> <td>2613</td> <td>2620</td> <td>2698</td> <td>2702</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>2683</td> <td>2788</td> <td>2747</td> <td>2701</td> <td>2939</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	2535	2613	2620	2698	2702	2020-21	2019-20	2018-19	2017-18	2016-17	2683	2788	2747	2701	2939
2020-21	2019-20	2018-19	2017-18	2016-17																	
2535	2613	2620	2698	2702																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
2683	2788	2747	2701	2939																	
2.2	<p><b>Number of outgoing / final year students year-wise during last five years</b></p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17															
2020-21	2019-20	2018-19	2017-18	2016-17																	

620	654	706	640	673
-----	-----	-----	-----	-----

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
661	753	706	711	694

2.3 **Number of students appeared in the University examination year-wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
2779	2737	2678	2775	2841

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
2514	2544	2609	2730	2696

2.4 **Number of revaluation applications year-wise during the last 5 years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
0	30	228	235	238

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
25	94	362	597	603

3.1 **Number of courses in all programs year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
1058	1017	1009	998	954

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
1136	1136	1114	1114	1114

3.2 **Number of full time teachers year-wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
141	148	152	144	112

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
139	174	155	159	117

3.3 **Number of sanctioned posts year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
261	261	261	261	261

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
261	261	261	261	261

4.1 **Number of eligible applications received for admissions to all the programs year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
1354	1662	1692	1422	1310

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
1354	1662	1692	1422	1310

4.2 **Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
169	169	169	168	168

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
238	204	194	292	229

4.3 **Total number of classrooms and seminar halls**

Answer before DVV Verification : 58

Answer after DVV Verification : 65

4.4 **Total number of computers in the campus for academic purpose**

Answer before DVV Verification : 900

Answer after DVV Verification : 959

4.5 **Total Expenditure excluding salary year-wise during last five years ( INR in Lakhs)**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
1538.37	1737.53	2533.04	3639.23	3762.27

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
2028.89	1856.10	2868.91	3902.00	4159.42