SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

BRCM COLLEGE OF ENGINEERING AND TECHNOLOGY

VIDYAGRAM, VPO-BAHAL - 127028, DISTT.-BHIWANI (HARYANA)

127028

www.brcmcet.edu.in

SSR SUBMITTED DATE: 19-11-2020

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

November 2020
1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Established under the aegis of Ballaram Hanumandas Charitable Trust, BRCM College of Engineering & Technology started its journey in August 1999. BRCM-CET represents the manifestation of modern concepts of teaching pedagogy related to higher technical education judiciously blended with the ethos of Indian culture and tradition. The College is duly approved by All India Council for Technical Education (AICTE) and the Government of Haryana and is affiliated to Maharshi Dayanand University, Rohtak (Recognized under section 2 (f) & 12 (B) of the UGC Act, 1956) for 4-year B.Tech and 2-year M.Tech programmes.

The sole objective of the institution is to provide a perfect platform for the students in the field of Technology for their academic and overall personality development.

The Institution has a rich tradition of soaring high with the academic excellence of highly qualified faculty members and the overall personal growth of the students.

BRCM College of Engineering & Technology offers B. Tech degree in Computer Science & Engineering (CSE), Electronics & Communication Engineering (ECE), Electrical & Electronics Engineering (EEE), Mechanical Engineering (ME), Civil Engineering (CE) and various M.Tech courses. It was established for imparting engineering education and for promoting technological research to generate technical manpower in various areas of engineering and technology.

The institution continues to prosper as a result of the keenness and hard work of the faculty, students and the administrative staff of the institution. Several outstanding personalities bestowed their blessings and beautified the institution by contributing their skills and abilities to develop each and every field.

As a result of its quality education and state of the infrastructure, it is our pride to state that the institution stands in one of the top engineering colleges in Haryana state.

Vision

“Tapping, nurturing and harnessing of latent talents for empowerment towards self-actualization in all technical domains – both existing and futuristic”.

Mission

To develop BRCM College of Engineering & Technology into a “Centre of Excellence” in the field of technical education by:

- Providing state-of-the-art laboratories, workshops, research and instructional facilities;
- Encouraging students to delve into technical pursuits beyond the curriculum;
- Post-graduate teaching and research;
- Creating an environment for all round integrated personality development of students suited for the era
of converging technologies and skills.

1.2 Strength, Weakness, Opportunity and Challenges (SWOC)

Institutional Strength

- **Educational Excellence Award** recipient institution.
- Visionary management with a mission to escalate academic heights.
- Affiliated to Maharshi Dayanand University, Rohtak NAAC A+ Accredited.
- ECE, and ME programs are accredited by National Board of Accreditation (2015-2017).
- Recognized by UGC under section 2(f) and 12(B) of UGC act 1956.
- Well qualified, experienced and dedicated faculty
- MOUs with reputed industrial and research organizations.
- MOUs with Foreign Universities
- IQAC has been established for Quality Audit.
- Excellent infrastructure facilities
- Wi-Fi enabled campus including hostels.
- Well stacked library with a good number of National and International journals.
- Ragging-free Campus.
- Explicit Training & Placement Cell to provide continuous training for students.
- Explicit Entrepreneurial Development Cell (EDC) to promote Entrepreneurial spirit in the students.
- Mentoring on a one-to-one student basis as required.
- Establishment of professional chapters.
- Active student participation through various Cells/Clubs/Committees.
- Student participation in community development programs through NSS.
- Active registered Alumni Association.
- Well-connected by roads and train.

Institutional Weakness

- Delayed release of scholarship funds by the state government.
- Industry collaboration towards patents and advanced research is limited.
- The dearth of senior faculty with industrial research experience.
- Being a self-financed institution, government funding is conservative.

Institutional Opportunity

It is optimism that drives any institution to move forward. In the past two decades, BRCM College of Technology has made use of the opportunities available and moved ahead with a high level of optimism. The college has the capacity to script more success stories in the days to come taking due advantage of the following opportunities.

- The best of all opportunities is the institute’s progressive thinking and commitment to quality engineering education.
- The college has adequate infrastructure to integrate technology into education for twenty-first-century
digital learners.
- The campus is beautifully landscaped in a lush green stretch of land with no pollution, plastic-free, no smoking, and environment-friendly.
- Moreover, the overall development in technological and industrial fronts and the current growth oriented environment provide more opportunities for BRCM College of Technology to progress.

Institutional Challenge

As BRCM College prepares students for 21st-century challenges, the institute too faces many challenges.

- Enrolments for engineering programmes across India have fallen because of the huge supply of graduates in comparison to the demand. Attracting quality students to engineering is a huge challenge.
- Lack of motivation among current generation students is a concern. Motivating them to achieve success and excel in engineering remains a challenge.
- Unless the students are technically strong and have skills required by the industry, they will not be absorbed by the Industry. Being an affiliated institute, imparting value added courses on niche technologies to bridge the curricular gaps and student exchange programmes with international universities have always been a challenge.
- Meeting the industry demands and expectations in terms of emerging technologies still continues to be a challenge since the pace at which technology advancements take place in various fields is rapid for a higher education institution to catch up in terms of expert faculty and infrastructural augmentation.
- Attracting the best talent into the teaching profession has been a constant concern. The dearth of qualified and passionate teachers has been a challenge.
- The current generation outlook and attitude to higher education also need to be understood by the faculty and also how best to keep them engaged and occupied intellectually is a huge challenge to higher education institutions.
- The biggest challenge is to know what parents and students want from a college. Should a higher education institution be one which encourages free thinking and allows students to learn progressively or should the organization culture be strict and over-disciplined so as to keep the students focused to only achieving marks and not take part in non-academic activities.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The college follows the curriculum and syllabi prescribed by to Maharshi Dayanand University. It has formulated the following strategies for the effective delivery of the prescribed curriculum.

- Vision, Mission, PEO, PO and CO are well-defined.
- Every department has a Department Advisory Board (DAB) with various stakeholders (Representatives from Faculty, Alumni, Industry, R&D Organization, Professional Body, Students) which meets every year to review and give suggestions for improvement. Suggestions are conveyed to the university through DAB minutes and members of the faculty in syllabus subcommittee.
- Programme Assessment Committee (PAC) comprising of senior faculty members monitors the
academic activities.

- Academic Schedule in compliance with the schedule of the affiliating university is planned.
- Time-table is prepared well in advance and includes hours allocated for value added courses, training, library and project.
- Project-based experiential learning is adopted and the gap in the curriculum is addressed through demonstrating experiments beyond curriculum and conducting tutorial classes, value added courses, seminars, and conferences.
- Class committee meetings and online course feedback are conducted twice a semester to monitor the progress of the courses.
- Centralized internal assessment tests are conducted by setting two sets of question papers with an evaluation scheme.
- Remedial classes are conducted for slow learners and special attention is given to advanced learners.
- Students and teachers are encouraged to attend conferences, industrial training, to undertake internships and publish their research work in conferences and journals.
- IQAC collects suggestions and feedback from the students’ representatives and prompt actions are taken.
- MoUs signed with the industries, Centres of Excellence and research labs, facilities like smart classrooms, video conferencing technology, NPTEL, Certificate/ Diploma programs provide rich learning experiences to students.
- Importance of maintaining pollution free environment and holding professional ethics and human values are inculcated by offering courses, and seminars.
- New courses are introduced periodically.
- Value Added Courses (VAC) are made a mandate for all the students on all semesters. All the VACs are certified either by an Industry or Skill Development Organizations.
- CBCS has been implemented for all the programmes as per guidelines of UGC/AICTE.
Average percentage of teachers using ICT for effective teaching with LMS, e-learning resources etc., is 80%.

To achieve the teaching objectives, the teachers adopt different instructional tools and methods which include the use of Smart Classrooms; conduct of Workshops, Guest Lectures, Seminars, Symposiums, Conferences, Video Lectures, Industrial visits, Project Based Learning and encouragement to participate in Paper presentations, Group Discussions, Project Competitions like Hackathon. These methods promote creativity and innovation in teaching-learning.

Continuous Internal Evaluation System (CIE) is conducted as per the schedule and is subjected to reforms. The assessment system is transparent and robust in terms of frequency and variety.

Mechanism to deal with examination-related grievances is also transparent, time-bound and efficient.

The Institution evaluates the attainment of CO, PO, and PSO

Average pass percentage of students is 78%.

Vision, Mission, Core Values, PEO, PO, PSO, and CO are published in various sources and are disseminated among various stakeholders.

Research, Innovations and Extension

BRCM has good infrastructure with advanced research centers and computational facilities to carry out research and development activities. The departments of CSE, ECE, EEE, and MECH have strong research foundation and 4 faculty members are recognized as research supervisors by various universities. Under their guidance and supervision, 14 candidates have completed their Ph.D. and 30 are pursuing Ph.D. The central library has a collection of rare books, Library subscriptions for hard copies and e-journals to facilitate research.

The institution has received sponsored research projects worth Rupees 42.5 lakh from various funding agencies such as AICTE, and private agencies, etc. The institution provided up to Rs.1 Lakh per department to present research work at national and international conferences. Faculties have published around 153 research papers in UGC/Web of Science journals during the last five years.

The institution has organized several workshops/seminars towards Industry-Academia innovative practices and Intellectual Property Rights. An IPR cell is established to guide faculty and students for patent filing and so far 4 patents have been filed. The Institution has a stated code of ethics to check malpractices and plagiarism in research. The institution encourages the promotion of community services through setting-up of various forums. In the past 5 years, a good number of extension and outreach programs were conducted through NSS, IPR cell, etc.

Infrastructure and Learning Resources

BRCM is committed to providing a conducive learning environment with state of the art infrastructure and learning resources. Its hi-tech environment and facilities have made the institution on par with the premier institutions at the national and international levels. ICT enabled classrooms and laboratories leads to fast adoption to corporate culture during the transition of the students from campus to corporate. Library resources available in the central library stimulate the life-long learning skill of the students and also fulfill the needs of
the faculty and students for their advanced studies and action research. The institute has adopted the digital
platforms for learning resources such as e-journals, e-books, NPTEL, digital videos, PowerPoint presentation
and various databases available from leading publication houses relevant to the engineering programs. All
resources of the central library can be easily accessible remotely by the students and faculty members. The
contemporary infrastructural facilities and learning resources available at the institution have made it as one of
the prominent institutions in Hyderabad in providing quality education.

Student Support and Progression

BRCM CET conducts a number of student support activities such as academic, co-curricular and extracurricular
activities for academic excellence to ensure students’ progression to higher education and employment.

In addition to the scholarship provided by the government of Haryana and the institution also extends its
financial support to the financially deprived students.

The institution provides support to students to appear for competitive exams such as GATE, etc by providing
guidance. More than 50 students have availed guidance for competitive exams every year.

Career counseling is offered to the students for their overall development. Special care is taken towards slow
learners by conducting remedial classes. They are also encouraged, motivated personally and academically
counseled. Soft skills training and advanced communication skills training is offered to the students so that they
become strong professionally.

Pre-placement training which includes technical, aptitude, group discussion, and interview skills are conducted
every year with reputed training agencies to enhance the competency of the students. Students’ Grievance
Redressal Committee, Anti-Ragging Committee, and Prevention of Sexual Harassment Committee have a
transparent mechanism for timely redressal of their grievances. BRCM conducts Alumni Association meets
every year and avails the guidance and suggestions of alumni to the students. The alumni contribute a lot to the
skill development of students by delivering guest lectures, conducting workshops, seminars, and symposiums
every year.

Governance, Leadership and Management

The governance, leadership, and management of the college strive to translate its vision and mission statements
into reality in the following ways:

- Board of Governor (BOG) of the college meets once a year to discuss and come to a consensus on the
  administrative and academic functions of the college.
- Principal heads the academic and administrative setup.
- HOD support the Principal in various academic activities.
- Various committees headed by senior faculty members are formed by the Principal. These committees
  help in the decentralization of work and ensure collective responsibility among faculty.
- All staff members are given enough freedom to express their views and their innovative ideas
Principal have been authorized to sanction any expense.
HODs plan the Annual Budget of respective departments
Recruitment of faculty is done in a transparent manner by advertisement in the newspapers and the shortlisted candidates are interviewed by a panel comprising of Management representative, Principal, respective HOD and course experts.
The Grievance Redressal Committee looks into the grievances of both the students and staff, conducts an enquiry within 24 hours and try to settle grievance related issues in a cordial manner.
Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies is 25%.
Average number of professional development programs organized by the institution is two and average percentage of teachers attended is 60%.
As general welfare measures, accommodation, educational support to children, traveling allowances, insurance benefits, relief funds, awards, and incentives are given to both teaching and non-teaching faculty.
A well-defined system for faculty appraisal is followed in the institute.
External and internal financial audits are conducted periodically and appropriate strategies are developed based on the audit report.
Funds/Grants received from non-government bodies, individuals, Philanthropists is five lakhs.
IQAC of the college ensures the progress of student’s performance in academics and placement.
Introduction of additional assessments based on the suggestion made by the student members of IQAC

Institutional Values and Best Practices

The institution holds a set of values and a few best practices which show the institution’s commitment towards the development of not only its students and teachers but also the society and nation at large.

- The college believes in providing fair treatment to both men and women and there is no discrimination against women.
- The college is keen on providing safety and security for girl students and women employees and has a separate common room for boys and girls.
- The college has a 100KW Solar Power-Plant and also practices energy efficient lighting.
- Percentage of the annual power requirement met by renewable energy is 50%.
- Percentage of annual lighting power requirements met through LED bulbs 90%.
- The college has invested in green initiatives like Rain Water Harvesting, Organic Farming, Herbal Garden, Reverse Osmosis, Grey Water Recycling, and water conservation by using sprinklers to water plants in the garden.
- Average percentage expenditure on green initiatives excluding salary component is 12%.
- College provides resources that are friendly to differently abled persons.
- College has been taking social responsibility initiatives like organizing awareness programmes, blood donation camps etc.
- College has a code of conduct book for students, staff, and administrators. College calendar has the code of conduct for students, HR Policy book explaining service rules, leave policy and procedures of administration has the code of conduct for staff and ISO Quality Manual explains the roles of a good administrator.
- Numbers of activities were conducted to promote universal values.
- The college builds in faculty and students, the consciousness of national development by organizing programmes related to constitutional rights and voting rights.
• The college follows a set of procedures for maintaining transparency in all its financial, academic and administrative activities.

• Aligning our motives to the vision of our beloved Chairman, our college has focused on holistic and professional development of students through BRCM Clubs.
## 2. PROFILE

### 2.1 BASIC INFORMATION

<table>
<thead>
<tr>
<th>Name and Address of the College</th>
<th></th>
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<tr>
<td><strong>Name</strong></td>
<td>BRCM COLLEGE OF ENGINEERING AND TECHNOLOGY</td>
</tr>
<tr>
<td><strong>Address</strong></td>
<td>Vidyagram, VPO-Bahal - 127028, Distt.-Bhiwani (Haryana)</td>
</tr>
<tr>
<td><strong>City</strong></td>
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</tr>
<tr>
<td><strong>State</strong></td>
<td>Haryana</td>
</tr>
<tr>
<td><strong>Pin</strong></td>
<td>127028</td>
</tr>
<tr>
<td><strong>Website</strong></td>
<td><a href="http://www.brcmcet.edu.in">www.brcmcet.edu.in</a></td>
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<tr>
<th>Contacts for Communication</th>
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<tr>
<td><strong>Designation</strong></td>
<td><strong>Name</strong></td>
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<tr>
<td>Principal</td>
<td>Anuj Kumar Sharma</td>
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<tr>
<td>IQAC / CIQA coordinator</td>
<td>Sunil Kumar Makkar</td>
</tr>
</tbody>
</table>

### Status of the Institution

| **Institution Status** | Private and Self Financing |

### Type of Institution

| **By Gender** | Co-education |
| **By Shift** | Regular |

### Recognized Minority institution

| **If it is a recognized minority institution** | No |

### Establishment Details

| **Date of establishment of the college** | 08-07-1999 |
### University to which the college is affiliated/ or which governs the college (if it is a constituent college)

<table>
<thead>
<tr>
<th>State</th>
<th>University name</th>
<th>Document</th>
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<tbody>
<tr>
<td>Haryana</td>
<td>Maharishi Dayanand University</td>
<td><a href="#">View Document</a></td>
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### Details of UGC recognition

<table>
<thead>
<tr>
<th>Under Section</th>
<th>Date</th>
<th>Document</th>
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<tr>
<td>2f of UGC</td>
<td>21-07-2017</td>
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<tr>
<td>12B of UGC</td>
<td>21-07-2017</td>
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</tr>
</tbody>
</table>

### Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)

<table>
<thead>
<tr>
<th>Statutory Regulatory Authority</th>
<th>Recognition/App roval details Institution/Department programme</th>
<th>Day,Month and year(dd-mm-yyyy)</th>
<th>Validity in months</th>
<th>Remarks</th>
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<td>AICTE</td>
<td><a href="#">View Document</a></td>
<td>15-06-2020</td>
<td>12</td>
<td></td>
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### Details of autonomy

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges? No

### Recognitions

<table>
<thead>
<tr>
<th>Is the College recognized by UGC as a College with Potential for Excellence(CPE)?</th>
<th>No</th>
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<tbody>
<tr>
<td>Is the College recognized for its performance by any other governmental agency?</td>
<td>Yes</td>
</tr>
<tr>
<td>If yes, name of the agency</td>
<td>National Board of Accreditation</td>
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<td>Date of recognition</td>
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Location and Area of Campus

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<tr>
<th>Campus Type</th>
<th>Address</th>
<th>Location*</th>
<th>Campus Area in Acres</th>
<th>Built up Area in sq.mts.</th>
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<td>Main campus area</td>
<td>Vidyagram, VPO-Bahal -127028, Distt.-Bhiwani (Haryana)</td>
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<td>24516</td>
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2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)

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<tr>
<th>Programme Level</th>
<th>Name of Programme/Course</th>
<th>Duration in Months</th>
<th>Entry Qualification</th>
<th>Medium of Instruction</th>
<th>Sanctioned Strength</th>
<th>No.of Students Admitted</th>
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Position Details of Faculty & Staff in the College
### Teaching Faculty

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<th>Female</th>
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<th>Total</th>
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### Non-Teaching Staff

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<tr>
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<tr>
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### Technical Staff

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<tr>
<td>Recruited</td>
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<td>0</td>
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<tr>
<td>Yet to Recruit</td>
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<tr>
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### Qualification Details of the Teaching Staff

#### Permanent Teachers

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<th>Highest Qualification</th>
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<td>0</td>
</tr>
<tr>
<td>PG</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
## Temporary Teachers

<table>
<thead>
<tr>
<th>Highest Qualification</th>
<th>Professor</th>
<th>Associate Professor</th>
<th>Assistant Professor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Male</td>
<td>Female</td>
<td>Others</td>
</tr>
<tr>
<td>D.sc/D.Litt.</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Ph.D.</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>M.Phil.</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PG</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

## Part Time Teachers

<table>
<thead>
<tr>
<th>Highest Qualification</th>
<th>Professor</th>
<th>Associate Professor</th>
<th>Assistant Professor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Male</td>
<td>Female</td>
<td>Others</td>
</tr>
<tr>
<td>D.sc/D.Litt.</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Ph.D.</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>M.Phil.</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PG</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

## Details of Visiting/Guest Faculties

<table>
<thead>
<tr>
<th>Number of Visiting/Guest Faculty engaged with the college?</th>
<th>Male</th>
<th>Female</th>
<th>Others</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>10</td>
</tr>
</tbody>
</table>

Provide the Following Details of Students Enrolled in the College During the Current Academic Year
<table>
<thead>
<tr>
<th>Programme</th>
<th>From the State Where College is Located</th>
<th>From Other States of India</th>
<th>NRI Students</th>
<th>Foreign Students</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>UG</td>
<td>Male</td>
<td>229</td>
<td>126</td>
<td>0</td>
<td>355</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>35</td>
<td>14</td>
<td>0</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>Others</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PG</td>
<td>Male</td>
<td>44</td>
<td>23</td>
<td>0</td>
<td>67</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>10</td>
<td>4</td>
<td>0</td>
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<td>Others</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Provide the Following Details of Students admitted to the College During the last four Academic Years

<table>
<thead>
<tr>
<th>Programme</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC</td>
<td>Male</td>
<td>15</td>
<td>22</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>2</td>
<td>8</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Others</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>ST</td>
<td>Male</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Others</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>OBC</td>
<td>Male</td>
<td>17</td>
<td>19</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Others</td>
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<td>0</td>
</tr>
<tr>
<td>General</td>
<td>Male</td>
<td>75</td>
<td>75</td>
<td>81</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>5</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Others</td>
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<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Others</td>
<td>Male</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Others</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>115</td>
<td>144</td>
<td>151</td>
<td>145</td>
</tr>
</tbody>
</table>
Extended Profile

1 Program

1.1

Number of courses offered by the Institution across all programs during the last five years

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>

1.2

Number of programs offered year-wise for last five years

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>

2 Students

2.1

Number of students year-wise during last five years

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>485</td>
<td>515</td>
<td>574</td>
<td>662</td>
<td>906</td>
</tr>
</tbody>
</table>

2.2

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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>148</td>
<td>174</td>
<td>174</td>
<td>174</td>
<td>276</td>
</tr>
</tbody>
</table>
2.3

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

<table>
<thead>
<tr>
<th>Year</th>
<th>2019-20</th>
<th>2018-19</th>
<th>2017-18</th>
<th>2016-17</th>
<th>2015-16</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>138</td>
<td>156</td>
<td>203</td>
<td>244</td>
<td>365</td>
</tr>
</tbody>
</table>

3 Teachers

3.1

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

<table>
<thead>
<tr>
<th>Year</th>
<th>2019-20</th>
<th>2018-19</th>
<th>2017-18</th>
<th>2016-17</th>
<th>2015-16</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>69</td>
<td>82</td>
<td>96</td>
<td>111</td>
<td>127</td>
</tr>
</tbody>
</table>

3.2

Number of sanctioned posts year-wise during last five years

<table>
<thead>
<tr>
<th>Year</th>
<th>2019-20</th>
<th>2018-19</th>
<th>2017-18</th>
<th>2016-17</th>
<th>2015-16</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>69</td>
<td>82</td>
<td>96</td>
<td>111</td>
<td>127</td>
</tr>
</tbody>
</table>

4 Institution

4.1

Total number of classrooms and seminar halls
Response: 25

4.2

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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>127.79</td>
<td>191.47</td>
<td>410.03</td>
<td>396.22</td>
<td>600.48</td>
<td></td>
</tr>
</tbody>
</table>

4.3

Number of Computers

Response: 280
4. Quality Indicator Framework (QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process

Response:

Being an affiliated institution, BRCM College of Engineering and Technology, Bahal adopts the curriculum designed by Maharshi Dayanand University (MDU), Rohtak.

For effective delivery of the curriculum, the following process is developed and deployed.

- The Academic calendar provided by the University is taken as the base for making curriculum delivery plan. The academic calendar provides the date of commencement of the academic session, submission of mid-term exam marks, the duration of the semester, the period of internal assessment tests, practical exam schedule, preparation holidays, final semester examinations etc.
- The Head of the institution conducts meetings with the Head of the departments for developing a detailed academic calendar for the effective implementation of the curriculum immediately after the release of academic calendar of university.
- A well-structured academic calendar which is in-line with the academic calendar of MDU University is prepared by the Head of the departments with the due approval of the head of the institution. An action plan for conducting co-curricular, extra-curricular activities, to enrich the curriculum is also included in the detailed academic calendar.
- The Head of the Department allocates the courses to the faculty members as per their expertise and option. Class wise and Course wise time tables is prepared for effective planning and delivery of courses.
- Each faculty prepares course outcome, a micro level course plan, notes and course handout, for executing day to day academic activities. A clear plan to fill up the Curricular Gaps either by teaching content beyond the syllabus, invited lectures, workshops or add-on programs are included in the course plan.
- The Head of the Department monitors the academic activities on a regular basis by verifying monthly syllabus coverage report to ensure the execution of effective teaching learning process as per the academic calendar, and finds the gap, if any. The IQAC performs academic audit time to time during the semester to ensure the effective delivery of the curriculum.
- Teachers are encouraged to impart the curriculum through student centric learning methods, such as presentations, assignments, brainstorming, NPTEL lectures, group discussions, workshops, quiz, role-play, seminars, projects, industrial visits, etc., and innovative teaching methods such as Google classroom etc. besides the regular/traditional chalk and talk methods.
- The academic performance of students is continuously and carefully monitored by conducting special tests, Mid Term exams, during the semester to assess the attainment of Course Outcomes (COs).
- Class committee meetings are also conducted at regular intervals to solve the student’s grievances and ensure the effective delivery of the curriculum.
1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

Response:

The institution strictly adheres to the academic calendar published by MDU Rohtak for conducting different academic and extracurricular activities. The academic calendar provides the date of commencement of the academic session, submission of mid-term exam marks, Parent-Teachers meeting, the duration of the semester, date of internal assessment tests, practical exam schedule, preparation holidays, final semester examinations, etc.

Continuous Internal Evaluation plays a very important role in deciding the quality of the education system. In addition to this, the institution has made significant measures to enhance and evaluate the performance of students by framing significant reforms in CIE at the institute level.

The faculty members are prepares the lesson plan before the commencement of semester, indicating the topics to be covered lecture wise including the evaluation process for each subject and it is duly reviewed by the Head of Department.

The institution conducts two Sessional Examination in each semester as per the schedule and pattern of MDU norms where the average is taken of both.

In addition to the tests, assignments, mini-projects and quiz are also the part of Continuous Internal Evaluation. The evaluated answer books are returned to the students and an opportunity is given to the students to discuss the evaluation with the teacher. The teacher rectifies any error on the spot, if any.

The major steps are given as follows:

- The institution communicates the defined course outcomes, Program Outcomes and Program Specific Outcomes to its stakeholders in all the possible ways.
- The IQAC cell has setup in the college which performs monitoring function by inspecting the activities of different cells and bodies. The IQAC ensures quality work by taking feedback from faculty and students and perform corrective action.
- As the institution has adopted Outcome Based Education, it is keenly focused on practicing student-centered learning practices such as experiential learning, participative learning, and problem-solving methodologies to assess the learning level of the students.
- Question papers for internal examinations are framed to evaluate the different cognitive learning levels of the students using different direct and indirect assessment tools instead of merely checking simple memory recall practice of the conventional evaluation system.
- The institution provides conducts several activities and programs to showcase their talents in Co-curricular and Extra-curricular activities.
- Special attention is given to separately to slow learners and advanced learners in order to uplift their skills and learning levels.
- For every 10-15 students, a mentor is allotted to motivate and resolve the issues faced by the
students.
- The institution encourages the faculty members to undertake online courses in Massive Open Online Courses (MOOCs) through NPTEL-SWAYAM etc.

1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and are represented on the following academic bodies during the last five years

1. Academic council/BoS of Affiliating university
2. Setting of question papers for UG/PG programs
3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
4. Assessment/evaluation process of the affiliating University

Response: A. All of the above

1.2 Academic Flexibility

1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Response: 80

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

Response: 8

1.2.2 Number of Add on/Certificate programs offered during the last five years
1.2.2.1 How many Add on /Certificate programs are added within the last 5 years.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Programs</td>
<td>4</td>
<td>6</td>
<td>4</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

File Description

<table>
<thead>
<tr>
<th>Description</th>
<th>Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>List of Add on /Certificate programs</td>
<td>View Document</td>
</tr>
<tr>
<td>Brochure or any other document relating to Add on /Certificate programs</td>
<td>View Document</td>
</tr>
</tbody>
</table>

1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years

Response: 19.41

1.2.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Enrolled</td>
<td>219</td>
<td>164</td>
<td>115</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

File Description

<table>
<thead>
<tr>
<th>Description</th>
<th>Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>Details of the students enrolled in Subjects related to certificate/Add-on programs</td>
<td>View Document</td>
</tr>
</tbody>
</table>

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:

- The institution strongly believes that addressing cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics have a direct impact on achieving the sustainable development of the nation.
- So the institution takes a continuous effort in integrating cross-cutting issues to be an integral part of the curriculum to achieve holistic development of the students and to create a positive vibration
on their study and societal commitment.

- The institution offers courses that integrate crosscutting issues as part of the curriculum prescribed by MDU Rohtak. As a supplement of this endeavor, the institution also organizes various activities such as seminars, expert lectures, workshops, awareness programs etc, throughout the year.
- A vibrant and active Women Cell working throughout the year in enhancing sensitivity about gender based issues and in providing congenial and supportive environment to girls for their overall development.
- Students have to clear a paper on environmental awareness to get their degree. Practical assignments are also given to the students to make them aware about environment issues. Tree plantation programs are organized time to time by involving maximum number of students. Lush green campus itself describe our effort in this field.

### 1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

**Response:** 100

<table>
<thead>
<tr>
<th>Year</th>
<th>2019-20</th>
<th>2018-19</th>
<th>2017-18</th>
<th>2016-17</th>
<th>2015-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Count</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>

### 1.3.3 Percentage of students undertaking project work/field work/internships (Data for the latest completed academic year)

**Response:** 24.33

### 1.3.3.1 Number of students undertaking project work/field work / internships
**1.4 Feedback System**

1.4.1 *Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders* 1) Students 2) Teachers 3) Employers 4) Alumni

Response: A. All of the above

1.4.2 Feedback process of the Institution may be classified as follows: Options:

1. Feedback collected, analysed and action taken and feedback available on website
2. Feedback collected, analysed and action has been taken
3. Feedback collected and analysed
4. Feedback collected
5. Feedback not collected

Response: A. Feedback collected, analysed and action taken and feedback available on website
Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 34.33

2.1.1.1 Number of students admitted year-wise during last five years

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>115</td>
<td>144</td>
<td>151</td>
<td>145</td>
<td>162</td>
</tr>
</tbody>
</table>

2.1.1.2 Number of sanctioned seats year wise during last five years

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>348</td>
<td>378</td>
<td>378</td>
<td>408</td>
<td>648</td>
</tr>
</tbody>
</table>

File Description

<table>
<thead>
<tr>
<th>Description</th>
<th>Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institutional data in prescribed format</td>
<td>View Document</td>
</tr>
<tr>
<td>Any additional information</td>
<td>View Document</td>
</tr>
</tbody>
</table>

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 (exclusive of supernumerary seats)

Response: 22.25

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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>32</td>
<td>50</td>
<td>47</td>
<td>35</td>
<td>38</td>
</tr>
</tbody>
</table>

File Description

<table>
<thead>
<tr>
<th>Description</th>
<th>Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average percentage of seats filled against seats reserved</td>
<td>View Document</td>
</tr>
<tr>
<td>Any additional information</td>
<td>View Document</td>
</tr>
</tbody>
</table>
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:

Every year, the college organized orientation program for the students admitted in first year. The purpose of this program is to familiarize the students with the institution, curricular and co-curricular activities, facilities, rules and regulations etc. Before starting of the classes the differential needs of the students are identified and addressed at the earliest by way of premeditated strategy. Also, the institution assesses the learning levels of the students on the basis of result/marks obtained by the students in the previous university examination. Based on the assessment the students are identified as slow learner and are identified as advanced learner.

Strategies adopted for Slow Learners- Sufficient Support is dispensed to slow learners to overcome academic difficulties by:

- Motivate them for actively participation into several programs
- Organize remedial classes by expert faculty.
- Encourage them to solve previous year university question papers for improving performance
- Involve them in practical assignments
- Guided Self Study Courses classes
- Dispensing extra reading material to enhance basic knowledge of subject
- To engage them in NSS activities to develop social skills.

Strategies adopted for Advanced Learners- In order to support the fast learners, it is ensured that:

- Encourage them to involve themselves in various forums like quiz, poster presentation, conference, inter college competitions
- Provide opportunities to perform mini-project work in any concerned organizations
- Assign them project work related to their subject
- Encourage them to involve in writing research papers
- Organize seminars, workshop, aptitude and communication skills enhancement programs

Motivate them to play active roles in various co-curricular activities

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

Response: 7:1
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:

BRCM CET ensures that student-centric methods are effectively used in regular academic practices as it makes the students more self-reliant and self-motivated, and learning as interesting and effective. Instead of teacher-centric conventional teaching methods, the institution strongly believes that student-centric learning methods enhance the lifelong learning skills of students.

The institution takes significant efforts to explore flipped classrooms with ICT tools and e-resources, such as NPTEL videos, e-books, PPTs, etc which helps to easily transform conventional teaching process to student-centric process.

To make the learning activity more interactive below-mentioned student-centric methods are adopted:

**Experiential Learning:** The College imparts the following experiential learning practices to enhance creativity and cognitive level of the students

- Laboratory Sessions with advanced experiments
- Internship to expand the knowledge on market trends
- Add-on Courses on latest technologies
- Case Studies, Prototype Model Making, Visual Aids usage
- Project development

**Problem-solving methods:**

- Practical Sessions to get Hands-on experience
- Tutorial Sessions
- Brain Storming sessions
- Special Assignments
- Technical Seminar on contemporary topics
- Group discussion
- Quiz Sessions

**Participatory Learning:**

- Tech Fest/Project Expo
- Group Discussion, Debate, Role Play, Quiz
- Technical Seminar Presentation
- Periodical Industrial Visit to get insight into the internal working atmosphere of industries
- Co-curricular & Extra-Curricular activities/contests to trigger self-confidence of the students
- NSS and extension activities
2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Response:

BRCMCET encourages intensive use of ICT enabled tools including online resources for effective teaching and learning process. Most of the College teachers are using ICT tools and other digital resources. The Institution is provided with all state of the art facilities such as adequate number of spacious Class Rooms, well equipped laboratories, tutorial rooms, seminar/conference halls etc. which are well equipped with ICT facilities to facilitate the academic programs.

The Institute has well developed Computing resources and equipments like desktops, servers, printers, CD writers, firewall, laptops, and accessories, which are used for a various purposes like data entry, research activities, storing files, running an application etc.

For effective teaching and learning process projectors and its accessories are installed in all the class rooms and for the purpose of better surveillance CCTVs are installed at all corners of campus to cover the maximum area.

The institute is the Remote centre of IIT Bombay and IIT Kharagpur under NMEICT, MHRD, Govt. of India. Our institute is designated by IIT Delhi as nodal center for Virtual Labs (A MHRD, Govt. of India project) and also a SWYAM-NPTEL Local Chapter. Teachers and students get benefited by the services provided by these institutes through online mode.

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

Response: 9:1

2.3.3.1 Number of mentors

Response: 52
### 2.4 Teacher Profile and Quality

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

**Response:** 100

<table>
<thead>
<tr>
<th>Year wise full time teachers and sanctioned posts for 5 years (Data Template)</th>
<th>Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>View Document</td>
<td></td>
</tr>
</tbody>
</table>

#### 2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

**Response:** 11.73

<table>
<thead>
<tr>
<th>Year wise full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt.</th>
<th>Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>View Document</td>
<td></td>
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</tbody>
</table>

#### 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

<table>
<thead>
<tr>
<th>Year</th>
<th>2019-20</th>
<th>2018-19</th>
<th>2017-18</th>
<th>2016-17</th>
<th>2015-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-20</td>
<td>15</td>
<td>09</td>
<td>09</td>
<td>07</td>
<td>13</td>
</tr>
</tbody>
</table>

#### 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:** 6.25

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

---

<table>
<thead>
<tr>
<th>File Description</th>
<th>Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)</td>
<td>View Document</td>
</tr>
<tr>
<td>Any additional information</td>
<td>View Document</td>
</tr>
</tbody>
</table>
2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

Response:

The institution maintains high transparency and robustness in conducting internal assessment exams by adopting several effective mechanisms as given below:

- Schedule of Internal assessment test, syllabus and question paper pattern adhered to the academic calendar and regulations of MDU Rohtak are displayed well in advance before the commencement of the academic session.
- The marks of internal assessment are awarded by faculty and the same is verified by HOD and college principal before finally submitting on university portal.
- Assignments are given on each unit of the course and suggestions to improve their performance are given after evaluation.
- Exam attendance report for every fortnight is displayed and uploaded in the ERP and the same is communicated to the parents through mails/Messages/letters.
- Their performance is assessed on various parameters such as presentation skills, technical skills, communication skills, and viva-voce. Internal marks are displayed immediately after the evaluation.

2.5.2 Mechanism to deal with internal/external examination related grievances is transparent, time-bound and efficient

Response:

The institution maintains high transparency and robustness in conducting internal and external assessment exams. The institution takes high concern in addressing the issues related to examinations as it determines the direct outcome in outcome-based education. Examinations are conducted in two ways namely, internal and external examinations.

The mechanism to resolve internal examination grievances is as follows:
After evaluation of internal assessment answer scripts, the scripts are given to students to have an idea of their performance in the test.
Utmost care is taken in resolving exam related issues. This cell actively resolves the issues, such as awarding of less mark in answer scripts, seminar, assignment, counting mistakes, poor evaluation answer scripts and assignments, out of syllabus question paper, etc.
In general, the issues related to internal exams are resolved by the respective faculty.
When the student is not satisfied with the response from the faculty, they can approach the HOD through their mentor.
Even if the issue is resolved, the student can approach to the Dean/Principal.

The mechanism to resolve external examination grievances is as follows:

- Any grievances related to university question paper like out of syllabus, repeated questions, improper split of marks, marks missed, wrong question number during semester exams are addressed to the principal, after making an analysis of day by day university question papers by the subject handling faculties with Department Head in turn he proceeds the same to the university immediately.
- The Examination Coordinator of each department helps the students in addressing their issues after the release of examination results such as result withheld, change of marks, application of photocopy, revaluation, etc.
- Student’s grievances are addressed at the earliest for the betterment of the student with active involvement and support of Exam Cell Coordinator of each department and Controller of Examination of the institution.
- If student has any grievances related to evaluation of university answer scripts are intimated to the subject handling faculty and head of the department if necessary.
- The revaluation is applied for answer scripts, in which the re-evaluated marks can be obtained during the announcement of revaluation results of the same semester.
- In order to maintain transparency, students can apply for photo copy of their answer script and they may decide on re-valuation/re-totaling.
- Consulting with the subject handling faculty and Department HOD challenge revaluation can also be applied by the students.

2.6 Student Performance and Learning Outcomes

2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Response:

- The Institution has clearly stated Program Outcomes, Program Specific Outcomes, and Course Outcomes. In the beginning of each session, the faculty members are made aware about general rules and regulations about the academic curriculum. The program learning objective along with the
outcomes are discussed among students in details.

- Course instructor defines Course Outcomes for all the courses.
- The Department Advisory Committee and the Head of the Department review and approve the Course Outcomes (CO).
- Knowledge in the concerned subjects measured by marks awarded in examination, it obviously stated teaching learning outcome of the institution.
- The following mechanism is followed by the institution to communicate/disseminate Program outcomes, program specific outcomes and course outcomes to the teachers and students:

  - College website
  - Department Notice Board
  - Director/Principal/Vice-Principal/HOD chamber and all central facilities
  - All Laboratories
  - College prospectus
  - Display at the Prominent Locations of the Campus

<table>
<thead>
<tr>
<th>File Description</th>
<th>Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upload COs for all Programmes (exemplars from Glossary)</td>
<td>View Document</td>
</tr>
<tr>
<td>Upload any additional information</td>
<td>View Document</td>
</tr>
</tbody>
</table>

### 2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

**Response:**

BRCM CET has adopted Outcome Based Education which focuses on measuring student performance through outcomes. Course Outcomes, Program Outcomes, and Program Specific Outcomes are evaluated to measure the knowledge, skills, and behavior of students for the continuous quality improvement of each Course and Programs.

- Evaluation CO, PO and PSO attainment help faculty members to ensure outcomes are being reached, monitor the students’ performance in upcoming sessions, and improving teaching efficiency.
- Attainment of Course Outcomes is measured using Direct and Indirect methods.
- For direct attainment, marks of Continuous Internal Evaluation Tests, assignment (other special components such as Quiz, mini-projects, case studies, seminar presentation, etc.) and University results are taken as input parameters.
- For Indirect attainment, the Course Exit survey conducted at the completion of each course is used as an important tool. Using the weighted average score obtained in a Course Exit survey, indirect attainment level for each course outcome is measured.
- After measuring the CO attainment of each course, recommendations are put forth to the respective course to practice from the next academic year to improve the teaching-learning process.
2.6.3 Average pass percentage of Students during last five years

Response: 63.39

| 2.6.3.1 Number of final year students who passed the university examination year-wise during the last five years |
|---|---|---|---|---|
| 81 | 110 | 107 | 175 | 231 |

| 2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years |
|---|---|---|---|---|
| 138 | 156 | 203 | 244 | 365 |

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response:

File Description | Document
---|---
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template) | View Document

File Description | Document
---|---
Upload database of all currently enrolled students (Data Template) | View Document
Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

Response: 42.5

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

<table>
<thead>
<tr>
<th>Year</th>
<th>2019-20</th>
<th>2018-19</th>
<th>2017-18</th>
<th>2016-17</th>
<th>2015-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grants</td>
<td>1</td>
<td>1</td>
<td>1.50</td>
<td>2.50</td>
<td>36.5</td>
</tr>
</tbody>
</table>

File Description

List of endowments / projects with details of grants

Document: View Document

e-copies of the grant award letters for sponsored research projects / endowments

Document: View Document

3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)

Response: 5.8

3.1.2.1 Number of teachers recognized as research guides

Response: 4

File Description

Institutional data in prescribed format

Document: View Document

Any additional information

Document: View Document

3.1.3 Percentage of departments having Research projects funded by government and non-governmental agencies during the last five years

Response: 24

3.1.3.1 Number of departments having Research projects funded by government and non-governmental agencies during the last five years
### 3.1.3.2 Number of departments offering academic programmes

<table>
<thead>
<tr>
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<td>Number</td>
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<td>5</td>
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<tr>
<th>File Description</th>
<th>Document</th>
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</thead>
<tbody>
<tr>
<td>Supporting document from Funding Agency</td>
<td><a href="#">View Document</a></td>
</tr>
<tr>
<td>List of research projects and funding details</td>
<td><a href="#">View Document</a></td>
</tr>
</tbody>
</table>

### 3.2 Innovation Ecosystem

#### 3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

**Response:**

The institute has created an ecosystem for innovation including incubation centre, MOUs with other national and international institutes and other initiatives for creation and transfer of knowledge. The college has a Research and Development Cell to motivate the faculty and students for doing new research and it also helps to create research culture among faculty members and students. The institute is the Remote centre of IIT Bombay and IIT Kharagpur under NMEICT, MHRD, and Govt. of India. Our institute is designated by IIT Delhi as nodal center for Virtual Labs (A MHRD, Govt. of India project) and also a SWYAM-NPTEL Local Chapter.

Faculty encourages students to inculcate scientific temper and research aptitude by giving an initiation through projects and practical. Science exhibition and quiz events motivate the students and create interest in innovation.

Entrepreneur Development Cell (EDC) of the college initiated various activities for the career enhancement of students at different medium like self employment, startup initiatives, collaboration with industries and research institutes. EDC cell organized various Entrepreneurship Awareness Camps.

The institute also having active Industry Institute Partnership which helps to reduce the gap between industry and academics by organizing various events like skill development programs, Industrial visit, expert lectures by industry personnel.

To promote institution-neighborhood-community network, the institution takes help of NSS volunteers.
Camps and other events are organized from time to time to engage students in social work besides studies for their holistic development. Involvement of community is facilitated through NSS camps, Women Cell and Jagriti manch initiatives in rural areas. Lectures are organized on the issues like cleanliness & hygiene, dowry system, disease control, honor killing and female feticide, Girls Education to aware and empower the villagers and thereby transformation is made in their lives. Persons from the rural areas not only participated in the deliberations on the above mentioned issues but also they carried forward the task of creating awareness on these issues in their localities. The training in basic blood donation, first-aid and literacy campaign organized as the part of these camps ensured community participation. Awareness rallies about all current issues are conducted in local area time to time.

3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

Response: 48

3.2.2.1 Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years

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<tbody>
<tr>
<td>Total</td>
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<td>14</td>
<td>7</td>
<td>15</td>
<td>8</td>
</tr>
</tbody>
</table>

File Description

- Report of the event
- List of workshops/seminars during last 5 years

3.3 Research Publications and Awards

3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years

Response: 1.15

3.3.1.1 How many Ph.Ds registered per eligible teacher within last five years

Response: 15

3.3.1.2 Number of teachers recognized as guides during the last five years

Response: 13

File Description

- List of PhD scholars and their details like name of the guide, title of thesis, year of award etc
3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years

Response: 1.58

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<td>22</td>
<td>22</td>
<td>33</td>
<td>39</td>
<td>37</td>
</tr>
</tbody>
</table>

File Description

List of research papers by title, author, department, name and year of publication  [View Document]

3.3.3 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: 0.44

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<thead>
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<td></td>
<td>11</td>
<td>4</td>
<td>11</td>
<td>11</td>
<td>6</td>
</tr>
</tbody>
</table>

File Description

List books and chapters edited volumes/ books published  [View Document]

3.4 Extension Activities

3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

The college is taking various initiatives to improve the quality of life surrounding the institute. The institute is much concerned to prepare its students sensitive towards social issues. To achieve this goal NSS
Unit, women cell and different students club organize various activities throughout the year. Camps, Lectures, awareness programs and other events are organized time to time to engage students in social work besides studies for their holistic development.

Students are encouraged to take part in activities related to literacy, gender sensitization and environment protection. Regular meetings of NSS/Women cell are helpful in this process. The college NSS unit also has arranged blood donation camps in collaboration with Indian Red Cross Society every year.

The students also perform nukkad natak (Play) on various issues to motivate the local community like Water conservation, Food security, Environment conservation, against drugs, Beti Bachao - Beti Padhao, Energy conservation, paper saving, Swachh Bharat abhiyaan are among the list of the programs organized. Door to door campaign and rallies are helpful to convey the message. Different government schemes for the people, Value of Vote, Aadhaar card, Road safety, driving license are some other concerns which are discussed among society. We provide opportunities to the students for discussing the social issues and their solution through Debate and Group Discussions.

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<th>File Description</th>
<th>Document</th>
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<tr>
<td>Upload any additional information</td>
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</tr>
</tbody>
</table>

### 3.4.2 Number of awards and recognitions received for extension activities from government/government recognised bodies during the last five years

**Response:** 7

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

<table>
<thead>
<tr>
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<td>1</td>
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<td>2</td>
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</table>

**File Description**

<table>
<thead>
<tr>
<th>Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of awards for extension activities in last 5 year</td>
</tr>
<tr>
<td>e-copy of the award letters</td>
</tr>
</tbody>
</table>

### 3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., during the last five years (including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)
Response: 62

3.4.3.1 Number of extension and outreached Programmes conducted in collaboration with industry, community and Non-Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

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<thead>
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</thead>
<tbody>
<tr>
<td>Number of Programmes</td>
<td>10</td>
<td>13</td>
<td>11</td>
<td>13</td>
<td>15</td>
</tr>
</tbody>
</table>

File Description
- Reports of the event organized: [View Document]
- Number of extension and outreach Programmes conducted with industry, community etc for the last five years: [View Document]
- Any additional information: [View Document]

3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

Response: 203

3.4.4.1 Total number of Students participating in extension activities conducted in collaboration with industry, community and Non-Government Organizations such as Swachh Bharat, AIDS awareness, Gender issue etc. year-wise during last five years

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Number of Students</td>
<td>987</td>
<td>1356</td>
<td>1098</td>
<td>1250</td>
<td>1523</td>
</tr>
</tbody>
</table>

File Description
- Report of the event: [View Document]
- Average percentage of students participating in extension activities with Govt or NGO etc: [View Document]
- Any additional information: [View Document]

3.5 Collaboration

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

Response: 94

3.5.1.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years

<table>
<thead>
<tr>
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</tr>
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<tbody>
<tr>
<td>2019-20</td>
<td>31</td>
<td>27</td>
<td>17</td>
<td>6</td>
<td>13</td>
</tr>
</tbody>
</table>

File Description

<table>
<thead>
<tr>
<th>Document</th>
<th>e-copies of related Document</th>
<th>Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship</th>
</tr>
</thead>
<tbody>
<tr>
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<td>View Document</td>
<td>View Document</td>
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</tbody>
</table>

3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

Response: 15

3.5.2.1 Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>2019-20</td>
<td>2</td>
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</tbody>
</table>

File Description

<table>
<thead>
<tr>
<th>Document</th>
<th>e-Copies of the MoUs with institution/ industry/corporate houses</th>
<th>Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years</th>
</tr>
</thead>
<tbody>
<tr>
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<td>View Document</td>
<td>View Document</td>
</tr>
</tbody>
</table>
Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipment etc.

Response:

The institute is nestled in more than 100 acres of lush green environment. The state of the art facilities provide the right atmosphere for the students to grow up through a complete learning process.

The institute has adequate facilities for teaching learning. There are sufficient number of well-designed ICT enabled class rooms and well equipped laboratories with state of the art instruments apparatus and recent software, one fully air conditioned Seminar hall with seating capacity of more than 500 to organize different students activities/Seminars/Workshops/Extension lectures/Quiz/Cultural programs, Open Auditorium with seating capacity of 4000 to organize the large level programs such as Science Exhibition/Annual function & Cultural, activities etc.

Modern computerized Library works as resource centre as it has many reference books, E-journals, Newspapers, Magazines and periodicals on current affairs along with the text books required as per curriculum. College has also provided the book bank facility.

In order to maximize benefits of the technological advancement, learning through internet has gained vital importance among students. Keeping abreast with time, 50 MBPS leased line has been laid within the entire campus thereby providing INTERNET facility in Hostels, Labs, library, Departments, Offices and Staff residences. The whole campus is Wi-Fi enabled.

Besides this the institute is the Remote centre of IIT Bombay and IIT Kharagpur under NMEICT, MHRD, and Govt. of India. Our institute is designated by IIT Delhi as nodal center for Virtual Labs (A MHRD, Govt. of India project) and also a SWYAM-NPTEL Local Chapter.

4.1.2 The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

Response:

Sports/Games

A sound mind coupled with a strong physique is the key of success. Sports activities occupy a significant part of the curriculum in our institute. The institution has all the adequate facilities for all types of sports and games (indoor, outdoor), gymnasium, yoga centre etc. The large play ground supports a wide variety
of games such as Cricket, Football, Volleyball, Athletics etc. There are separate space for indoor sports including Badminton, Table Tennis, Weight Lifting, Chess and Carom.

The institute always tries to provide all facilities to students for sports activities. We also provide financial aid for dietary requirements, uniforms and other sports material. There is separate gymnasium for boys and girls in the campus. The sports calendar is also framed out by the affiliating university to ensure and motivate the students for participation. Special financial aids are provided to the students for outstation participation in other universities and colleges.

**Cultural Activities**

The students of the college participate in different cultural activities round the year. A college cultural committee comprises of both faculty and students are there to look after all cultural activities. We have a fully air conditioned auditorium along with an open air theater. Students are also encouraged to participate in different culture activities including youth festivals and events organized by different institutions. Financial aid in the form of TA/DA for outstation participation along with expert facilities of professionals is provided to the students. College also concerned about the physical and mental health of the students, we organize different yoga sessions to achieve this goal.

<table>
<thead>
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<th>File Description</th>
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<tbody>
<tr>
<td>Upload any additional information</td>
<td>View Document</td>
</tr>
</tbody>
</table>

**4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)**

Response: 40

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 10

<table>
<thead>
<tr>
<th>File Description</th>
<th>Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)</td>
<td>View Document</td>
</tr>
<tr>
<td>Upload any additional information</td>
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</tr>
</tbody>
</table>

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

Response: 20.55

4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)
### 4.2 Library as a Learning Resource

#### 4.2.1 Library is automated using Integrated Library Management System (ILMS)

**Response:**

Yes, BRCM-CET Library is automated using Integrated Library Management System. The modern computerized library having seating capacity of 150 readers. The library is using most popular integrated Library Management Software (ERP) which provides online Web OPAC system facility to search library collection for users.

It is well-stacked with 38,600 volumes and 5100 titles including Book Bank section. Under book bank scheme 6 text books in every semester are issued to each student. The library is subscribing various International e-Journals and Printed Journals, National Journals, e-books and large numbers of technical magazines in various fields. This library has got a digital library section.

In the library a separate IT zone is available for accessing E-resources. One printer is available for public access. Internet facility is available in the IT zone of the library. Access to online e-journals through DELNET is available.

---

#### 4.2.2 The institution has subscription for the following e-resources

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

**Response:** C. Any 2 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)

Response: 267763.8

4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e-journals year wise during last five years (INR in Lakhs)

<table>
<thead>
<tr>
<th>Year</th>
<th>2019-20</th>
<th>2018-19</th>
<th>2017-18</th>
<th>2016-17</th>
<th>2015-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>(INR)</td>
<td>103620</td>
<td>85681</td>
<td>163682</td>
<td>204908</td>
<td>780928</td>
</tr>
</tbody>
</table>

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

Response: 17.15

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

Response: 95

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi
Response:

Description of IT facilities

The IT facilities available in the college summarized as follows:

LAN Facility

There are 38 data network switches (Gigabyte). 12 POE network switches (GB) for accesspoints, CCTV cameras, Intercoms and 1 SOPHOS Cyberoam firewall for content filtering for 2500 users simultaneously. 50 Mbps of internet connectivity is shared across the campus, out of where 25 Mbps is shared for the students.

Server configurations

There are four servers in which 2 Xeon E-5 version with configuration with 2.7*2 GHz Processor, 4 GB RAM DDR2, 500 GB hard Disk and 2 Intel i7 server with SSD Hard Drive, 1 TB hard drive, which is served as a domain controller (DC). The college have also student biometric server, faculty biometric server, and application server. For Data Storage Server 3 TB Hard Disk and 1 TB for critical server back up purpose.

Work station:

There are total of 280 desktops in which 217 desktops are provided to the entire departmental lab with configurations of core i3 3rd Generation and Core 2 Duo processor, 4GB RAM and 500 GB Hard Disk with LAN connectivity. 63 desktops with configurations of Core i5 processor, 4GB RAM, 500 GB Hard Disk, and Dual Core processor, 2GB RAM, 250 GB Hard Disk are available to carry out academic and administrative work.

Software:

There are total 679 genuine licenses software, in which 529 Microsoft standard and professional editions for departments. We also use open-source operating systems such as Fedora, Ubuntu, and CentOS. All windows systems are protected with Sophos end protection anti-virus.

Printers:

11 LaserJet printers, 4 Xerox machine, and five scanners across the campus for academic and administrative purposes.

ERP (Enterprise Resource Planning) Software

The educational enterprise resource planning (ERP) software called IFW Campus. ERP is a well-recognized Web-based College ERP. In this ERP, there are 20+ pro modules. Under College ERP, we handle Registration cum Admission, Fees, Time Table, Transport Module, Examination, Inventory & Accounts, Library, HR & Payroll Module, Reception, Hostel, Attendance etc. modules with the improved reporting system.
Wi-Fi

Eight Extendable Wi-Fi access points are placed in various places like the library, corridors, labs, hostels, and the canteen and outdoors.

A comparison of IT facilities, including Wi-Fi in 2015-16 and 2019-20, can be summarized as follows:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Items</th>
<th>2015-16</th>
<th>2019-20</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>No. of Computers</td>
<td>350</td>
<td>280</td>
</tr>
<tr>
<td>2</td>
<td>Bandwidth</td>
<td>30 Mbps</td>
<td>50 Mbps</td>
</tr>
<tr>
<td>3</td>
<td>No. of Software</td>
<td>300</td>
<td>679</td>
</tr>
<tr>
<td>4</td>
<td>Desktop Configuration</td>
<td>dual-core</td>
<td>i3or core to due</td>
</tr>
<tr>
<td>5</td>
<td>Accessories (Printers)</td>
<td>8</td>
<td>11</td>
</tr>
</tbody>
</table>

4.3.2 Student - Computer ratio (Data for the latest completed academic year)

Response: 2:1

4.3.3 Bandwidth of internet connection in the Institution

Response: A. ?50 MBPS

4.4 Maintenance of Campus Infrastructure

4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)

Response: 0.07

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)
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:

The institution has always been placing the students at the Centre of the teaching-learning process. The vision and the mission of the institution are to provide holistic knowledge to students.

Our vision is tapping nurturing and harnessing of latent talents for empowerment towards self –actualization in all technical domains –both existing and futuristic, and our mission is to develop BRCM College of Engineering and Technology into centre of excellence in the field of technical education

Laboratories

All laboratories are properly used by the students as per their requirements during the college hours and can also be availed even after the college hours. Lab Attendance register, stock register, Invoice files and purchase bills are maintained for each lab.

Proper inspection is done and verification of stock takes place at the end of every year.

The entry register is maintained to ensure the effective utilization of equipment. Lab Assistants and supporting faculties are responsible for maintaining lab equipment.

Computers and IT facilities

System Administrator is responsible for the maintenance of computers and IT facilities. They resolve the issues related to IT facilities such as, hardware troubleshooting, software installation & updation, maintaining biometric devices, ICT facilities, printers, anti-virus installation, website maintenance, and other network-related issues. The complaints posted through E-mail are addressed and resolved immediately by System Administrator. Lab assistants under the supervision of system administrator upkeep the efficiency of computers and IT accessories in the institution. LAN and Wi-Fi are regularly checked by the network team. All the IT facilities are maintained by the Annual Maintenance Contract (AMC).

Library
Librarian collects the requirement for a list of books, journals and other resources from all HODs during the commencement of each academic year. The list is duly verified and approved by the Principal. Every year at the beginning of the session, students are motivated to get membership in different Journals. A suggestion box is installed inside the library to collect the opinion and suggestion from users to enrich the library resources. ‘No dues’ clearance from the library is made mandatory for the students before appearing in the exam in view of stock verification of books. Entry register for visitors (students and staff) is maintained to ensure the effective utilization of library resources. Other issues such as weeding out of old titles, collecting rare books, maintaining torn books are resolved with the help of the library committee.

Pest control of library books and records is done every year by the maintenance department.

**Sports Facility Maintenance**

Sports Incharge maintains the sports facilities available in the institution. Stock Register and Issue Register are maintained to ensure the proper handling of the sports equipment. Stock verification is done on sports equipment at the commencement of each semester. The playground is maintained regularly under the supervision of the Sports Incharge with the supporting faculty. Sports and Games is an internal part of the college.

**Electrical Maintenance**

Electrical engineer is responsible for the maintenance of electrical equipment such as generators, UPS, and Batteries. The Contractor of Sure Energy Systems Pvt. Ltd analyzes, maintains and resolves the issues in electrical equipments at regular intervals.

**Maintenance of other Infrastructural facilities**

Maintenance Supervisor of the institution oversees the maintenance of buildings, classrooms, and Laboratories. The committee works with a group of dedicated supporting staff to upkeep the facilities in good condition. It also looks after the maintenance of other infrastructural facilities such as a playground, drinking water, parking areas, lawns, gardens, sewage treatment plants, whitwashing, restrooms, keeping campus maps and direction board, etc. At the beginning of each semester the readiness of the classrooms, ICT facilities and furniture are verified by the Maintenance Supervisor. Also, all the classroom amenities are verified and maintained periodically to uphold effective teaching-learning practice.

<table>
<thead>
<tr>
<th>File Description</th>
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<tbody>
<tr>
<td>Upload any additional information</td>
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</tbody>
</table>
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 Government during last five years

Response: 9.78

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year-wise during last five years

<table>
<thead>
<tr>
<th>Year</th>
<th>2019-20</th>
<th>2018-19</th>
<th>2017-18</th>
<th>2016-17</th>
<th>2015-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students</td>
<td>42</td>
<td>68</td>
<td>73</td>
<td>48</td>
<td>64</td>
</tr>
</tbody>
</table>

File Description

upload self attested letter with the list of students sanctioned scholarship

View Document

Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)

View Document

5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

Response: 40.43

5.1.2.1 Total number of students benefitted by scholarships, freeships, etc provided by the institution / non- government agencies year-wise during last five years

<table>
<thead>
<tr>
<th>Year</th>
<th>2019-20</th>
<th>2018-19</th>
<th>2017-18</th>
<th>2016-17</th>
<th>2015-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students</td>
<td>190</td>
<td>224</td>
<td>280</td>
<td>300</td>
<td>230</td>
</tr>
</tbody>
</table>

File Description

Upload any additional information

View Document

Number of students benefited by scholarships and freeships institution / non- government agencies in last 5 years (Date Template)

View Document
5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

Response: A. All of the above

<table>
<thead>
<tr>
<th>File Description</th>
<th>Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>Details of capability building and skills enhancement</td>
<td>View Document</td>
</tr>
<tr>
<td>initiatives (Data Template)</td>
<td></td>
</tr>
<tr>
<td>Any additional information</td>
<td>View Document</td>
</tr>
</tbody>
</table>

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

Response: 38.31

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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-20</td>
<td>195</td>
<td>161</td>
<td>243</td>
<td>253</td>
<td>358</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>File Description</th>
<th>Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of students benefited by guidance for competitive examinations and career</td>
<td>View Document</td>
</tr>
<tr>
<td>counselling during the last five years</td>
<td></td>
</tr>
<tr>
<td>Any additional information</td>
<td>View Document</td>
</tr>
</tbody>
</table>

5.1.5 The Institution has a transparent mechanism for timely 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: A. All of the above

<table>
<thead>
<tr>
<th>File Description</th>
<th>Document</th>
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</thead>
<tbody>
<tr>
<td>Upload any additional information</td>
<td><a href="#">View Document</a></td>
</tr>
<tr>
<td>Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee</td>
<td><a href="#">View Document</a></td>
</tr>
<tr>
<td>Details of student grievances including sexual harassment and ragging cases</td>
<td><a href="#">View Document</a></td>
</tr>
</tbody>
</table>

### 5.2 Student Progression

#### 5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 47.24

5.2.1.1 Number of outgoing students placed year-wise during the last five years.

<table>
<thead>
<tr>
<th>Year</th>
<th>2019-20</th>
<th>2018-19</th>
<th>2017-18</th>
<th>2016-17</th>
<th>2015-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students</td>
<td>78</td>
<td>68</td>
<td>106</td>
<td>85</td>
<td>179</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>File Description</th>
<th>Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self attested list of students placed</td>
<td><a href="#">View Document</a></td>
</tr>
<tr>
<td>Details of student placement during the last five years (Data Template)</td>
<td><a href="#">View Document</a></td>
</tr>
</tbody>
</table>

#### 5.2.2 Average percentage of students progressing to higher education during the last five years

Response: 55.8

5.2.2.1 Number of outgoing student progression to higher education during last five years

Response: 77

<table>
<thead>
<tr>
<th>File Description</th>
<th>Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upload supporting data for student/alumni</td>
<td><a href="#">View Document</a></td>
</tr>
<tr>
<td>Details of student progression to higher education (Data Template)</td>
<td><a href="#">View Document</a></td>
</tr>
</tbody>
</table>
5.2.3 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: 8.1

5.2.3.1 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

<table>
<thead>
<tr>
<th>Year</th>
<th>2019-20</th>
<th>2018-19</th>
<th>2017-18</th>
<th>2016-17</th>
<th>2015-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students</td>
<td>19</td>
<td>10</td>
<td>8</td>
<td>11</td>
<td>29</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Year</th>
<th>2019-20</th>
<th>2018-19</th>
<th>2017-18</th>
<th>2016-17</th>
<th>2015-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students</td>
<td>126</td>
<td>138</td>
<td>212</td>
<td>225</td>
<td>305</td>
</tr>
</tbody>
</table>

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 level (award for a team event should be counted as one) during the last five years.

Response: 38

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national /international level (award for a team event should be counted as one) year-wise during the last five years.
<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>7</td>
<td>10</td>
<td>4</td>
<td>7</td>
</tr>
</tbody>
</table>

**File Description**

<table>
<thead>
<tr>
<th>Document</th>
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</thead>
<tbody>
<tr>
<td>Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level during the last five year</td>
</tr>
<tr>
<td>e-copies of award letters and certificates</td>
</tr>
</tbody>
</table>

**5.3.2 Institution facilitates students’ representation and engagement in various administrative, co-curricular and extracurricular activities following duly established processes and norms (student council, students representation on various bodies)**

**Response:**

Students are member of different Councils/Committees/societies/Clubs of college. The objective is to ensure students participation in the development of their personality, organizational skills and technical skills. College also provides platform to students for co-curricular and extra-curricular activities. The list of various Councils/Committees/societies/Clubs is as follows:

- Internal Quality Assurance Cell (IQAC)
- Alumni Affairs Committee
- Student Grievance Redressal Committee
- Training and Placement Committee
- Mess Committee
- Cultural Committee
- Hostel Management Committee
- Mechanical Engineering Society (MES)
- **Computer Science Engineering Society (CSES)**
- Electrical Engineering Society (EES)
- Society of Civil Engineering (SCE)
- Sports Committee

The college has a student council consisting of two students from each class as class representative. The students are also included in various student activities cells and committees to take decisions in consultation with students. The grievance redressal cell and anti-ragging committee involve participation and feedback of student council in various activities of the college. The student council gives suggestions to the college authorities with regard to policy decisions and infrastructure development. The student’s advice and their valuable suggestions are considered for betterment.
5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 19

5.3.3.1 Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>15</td>
<td>18</td>
<td>24</td>
<td>22</td>
<td>16</td>
</tr>
</tbody>
</table>

5.4 Alumni Engagement

5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

The BRCM CET Alumni Association aims working for an all time interaction among alumni of the institute. The association provides opportunities for interaction between past and present graduates of the college. The alumni of our college hold good positions in institutions and Organizations of National & International repute. The college Alumni Association brings all these outstanding people together on a single platform. Alumni meets are being organized time to time by the association. The main aim and objectives of Alumni Association are:

- To foster the feeling of BRCM fraternity among college alumni through interaction by promoting and propagating the achievements of the members and the Alma Mater through newsletters, media, e mails etc.
- Promoting academic and professional excellence by organizing or sponsoring seminars/ conferences/ guest lecturers / publications etc for benefit of current students.
- Providing career guidance in both academic and extracurricular field to the public at large and students of the Alma Mater and creating opportunity for transfer of technology/knowledge amongst
the members and the Alma Mater.
- The alumni association of the college significantly contributes to the development of the college by providing valuable suggestions/Technical assistance time to time.
- To arrange and support in placement activities for the students.

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<tbody>
<tr>
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<td>Paste link for additional information</td>
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</tbody>
</table>

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

**Response:** C. 3 Lakhs - 4 Lakhs

<table>
<thead>
<tr>
<th>File Description</th>
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<tbody>
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</table>
Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of and in tune with the vision and mission of the institution

Response:

VISION:

To become an institute of academic excellence with international standards.

MISSION:

The vision will be realized by:-

1. Impart quality education along with industrial exposure.
2. Provide world class facilities to undertake research activities relevant to industrial & professional needs.
3. Promote entrepreneurship & value-added education that is socially relevant with economic benefits.

Nature of Governance: The institution is recognized by All India Council for Technical Education, approved by Government of Haryana and affiliated to Maharshi Dayanand University, Rohtak. The Governance of the institution is strictly in accordance with the Vision and Mission. The system is effectively decentralized for a better governance and performance. The major decisions which have a bearing on the function and the goal of the college are done by the BOG (Board of Governor) which includes the chairman of the institution. The staff council of the college headed by the Principal and all the HODs ensure the proper implementation of the decisions and directions given. The Management gives sufficient freedom to the Principal, who is the academic head of the institution to function in order to fulfill the vision and mission of the institution. HOD is delegated with department-level authority. The responsibilities are communicated to the faculty members through regular staff meetings. The office administration of the college is headed by the Assistant Registrar.

The Institute has a perspective plan for development. It is developed by Principal with the help of HODs of various departments under the guidance of BOG (Board of Governor). Based on the academic schedule given by the affiliating university, academic calendar is prepared. The academic calendar includes the list of pre-planned programs of various departments and examination schedules prepared with the knowledge of HODs. To ensure development of the institution, all the planning and execution is monitored regularly. The main objectives behind perspective plan are as follows:-

- Streamline various processes like evaluating methodologies of the teaching-Learning process, research progress, infrastructure facilities etc.
- Improve Research Competency and to get grants from various government and non-government organization like DST, UGC, AICTE etc.
- Learning and growth scope of the institution is also well explored. The institution signs MoUs with the various organizations for promoting institute-industry interaction. It also includes the provision
for the development of infrastructure for research activities and motivating the faculties towards Research, Consultancy etc.

- Financial perspective is also addressed well. Revenue is generated by conducting national conference, faculty development programs, consultancy grants and funding from research proposal scheme.

The Institute consistently promotes a culture of **participative management**. The Institute follows committee system for implementation of all its decisions and resolutions. The committees comprise of faculty members and students. The Governing Council has representation from faculty. The HODs take the decisions and implement the action plan. The department faculty is involved in implementation of the policies of the department. Hence at all levels there is participative management.

<table>
<thead>
<tr>
<th>File Description</th>
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<tbody>
<tr>
<td>Upload any additional information</td>
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</tr>
</tbody>
</table>

### 6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management

**Response:**

The Principal is the Head of the Institution and he ensures that the right ambiance is created for the smooth functioning of all academic activities, intellectual growth, and research pursuits. He periodically convenes meetings with the HODs, where ideas gathered from faculty members are exchanged and decisions are made regarding and improvement in the academic performance of the students. He creates various committees in consultation with the HODs. To name a few Committees: IQAC, Disciplinary and Anti-Ragging Committee, Grievance Committee, R&D Committee, Academic Committee, etc. These committees help in the decentralization of work and collective responsibility. HODs work for the holistic development of the students. This is done with the help of academic coordinators, class coordinators and counselors, who provide academic support, guidance, counsel, address grievances, maintain the database, keep tracks on attendance and communicate student progress to the stakeholders.

**Case study**

The institution offers decentralization and participative management in practice in the overall schema

- HODs play a crucial role in decentralizing the resources by scheduling the activities of the department and assigning responsibilities to the department faculty.
- HODs have functional autonomy in proposing the budget, course allocation, framing time table and takes the ownership of the department.
- Organizing seminars, guest lectures, workshops, conferences, competitions, industrial visits, and in-plant training are delegated often to the faculty members by the HOD.
- Faculty members are involved in the purchase and maintenance of equipment and consumables.
- Faculty members act as representatives in the BOG, Academic Committee, budget committee, library committee and other statutory bodies where important decisions are taken.
One of the main objectives is to mentor the students, as quality citizens for the society at large, as participative management.

- A mentoring system for the students is implemented with the participation of the faculty members in the ratio of 10 to 15 students to each faculty.
- Each and every faculty maintains the record of complete student’s profile.
- A schedule is made periodically for monitoring the student’s performance.
- In addition to the curriculum, the extra-curricular and co-curricular activities are also considered for mentoring.

Delegation of Financial Powers

- Budget is allotted for programs organized at the institutional level Graduation Day, Sports Day, Orientation Day, Fresher's Day, Farewell day etc. and Value Aided Programs like workshops, guest lectures, conferences, FDP etc., by the respective departments. Any programs to be organized are discussed with the Principal. After approval by the management, money is sanctioned and programs are conducted.
- Annual Budget for the respective department is prepared by the respective in-charges (lab procurement, infrastructure etc.) and forwarded to the Management for approval through Principal by HODs.

File Description

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6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

The IQAC in consultation with the managing board formulated a strategic plan in year 2020, in order to meet the information needs of stakeholders such as students, teacher’s alumni, etc. A Management Information Systems (MIS) was proposed in the strategic Plan. As envisioned in the plan the reliant MIS. The Staff council and IQAC discussed in detail various features to be included in MIS and decide to setup separate portals. The complete automation of the Administrative and management procedures has been facilitated by installing implementation of total campus solution.

The innovations and achievements of higher learning institutes two of engineering stream (ME, ECE) has already accredited by NBA (National Board of Accreditation) for a period of two year (2015-2017) which helped financial assistance from government agencies, private bodies for the development of institution.

Case Study: Implementation of Total Campus Solution (TCS)

In year of 2011-2012, an agreement was executed between IFW Techno Creations Private Limited and institution BRCMCET to implement ‘Online TCS’.
The contents of different portals are given below:

- **Student Management Portal**: Academic calendar, Student attendance, Internal Marks and verification, consolidated paper attendance, Time Table.
- **Faculty Portal**: Faculty profile, work allotment, individual time table, teacher performance record, and execution of daily teaching plan and internal marks.
- **Reports**: Student wise daily and monthly reports, attendance percentage for a given period, attendance shortage list, list of unmarked hours, internal examination marks report.
- **Examination Portal**: Examination schedule, Seat allotment list, Examination attendance entry, seating arrangement in external examination, etc.
- **Placement Module**: Track and manage placement process, authenticate and activate student profile, manage company profile, manage job postings, send notification to students, Export student profile and student placement list.
- **Administration Portal**: Online admission and profiling of applicant, Students attendance verification, fee chart setting and online receipt of fees, leaves management module for students and faculty and approval by the head of the institution, list of scholarships and application forms and Academic calendar.
- **Admission Portal**: Student detail entry at the time of admission, Student roll number generation, generates entry identification number and identity card generation.

Orientation programs were organized at regular intervals to the students; teaching and non-teaching staff to give hands on experience in Online TCS. The MIS has been successfully installed and maintained.

So the institution has designed a strategic plan for institutional growth and the holistic development of the students such as Teaching & Learning, Research & Development, Industry Interaction, enhancement of infrastructure and extracurricular activities.

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<td>strategic Plan and deployment documents on the website</td>
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6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

**Response:**

1. The college has a clearly defined organizational hierarchy and structure to support decision-making processes that are clear and consistent with its purposes and supports effective decision making. The organizational structure lends itself to sustaining institutional capacity and educational effectiveness through the involvement of external members in various Committees/Boards.

2. The Principal, and HODs with the help of faculty members, reviews the progress achieved and problems faced by various committees. The management has always welcomed the views and suggestions
expressed by the faculties in taking institution ahead. The presence of the faculty can be found in all the following committees.

1. Board of Governor
2. IQAC
3. Department Advisory Committee (Department wise)
4. Student Council
5. Women Empowerment & Anti-Sexual Harassment Cell
6. Anti-Ragging committee
7. NSS
8. Alumni Committee
9. SC/ST/OBC Committee
10. Minority Cell
11. Hostel Committee
12. Canteen Committee & Transport Committee
13. Sports & Cultural Committee
14. Discipline Committee

Such other authorities as may be declared by the Statutes to be authorities of the Institution.

3. External members are part of Board of Governor for enhancing the broader base and bringing transparency and fairness in the system.

4. The institution has a number of students and faculty committees for decentralized management activities/affairs for better functioning and effective learning of the students.

5. The major functions of various bodies are well defined in order to ensure role clarity and accountability. The details of the roles and responsibilities of various committees and leadership are given in the additional information as in the links.

6. Recruitment policy is transparent. An advertisement is given in the newspapers and the shortlisted candidates are called for interview. The interview committee consisting of the Management representative, Principal, respective HOD and subject experts interview the candidates. Candidates are then selected on Merit basis.

7. Service Rules, Promotion Policies, Employee Satisfaction, Welfare Schemes, and Grievance Redressal Mechanism are in place. Achievements of faculty and staff are recognized with financial and non-financial incentives.

8. The Grievances of the faculty and staff are redressed timely to keep their motivation all time for their performance efficiency and satisfaction.
6.2.3 Implementation of e-governance in areas of operation

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

Response: A. All of the above

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<td>ERP (Enterprise Resource Planning) Document</td>
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<td>Details of implementation of e-governance in areas of operation, Administration etc</td>
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6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

The institution is having many welfare measures for all the teaching & non-teaching staff as they are the backbone of the institution. Few of the welfare measures are listed below:

- Subsidized accommodation (staff quarters) inside the campus.
- Subsidized bus facilities for the staff members from Bhiwani, Hisar and nearby of Bahal.
- Provident fund facility is provided to eligible faculty members of the institution.
- Insurance for teaching and non-teaching staff.
- Resident Nursing Facility for faculties inside the campus.
- Financial assistance to meet emergency medical expenses of staff & family members.
- All kind of leaves for teaching and non-teaching staff as per centre/state government guidelines.
- The short term advance loan facility.
- Sponsorship and Leave for higher studies and attending conferences, development programs, seminars to the staff members.
- Loan facility provided to teaching and non-teaching staff through Bank.

Some other facilities are also available like

- Gym facility inside the campus.
- Yoga facility (regularly yoga meet for staff to reduce the stress).
- ATM facility in the campus.
- Swimming pool, football ground. Basket ball ground, running track, and badminton court for staff.

Apart from all the above things many other welfare measures also taken by the management. Faculties are
getting the TSL (Training and Study Leave) for their carrier advancement like the research program. Staff is provided with the study leave while doing their Post-Graduation. Grievance Redressed cell is there for solving all the faculty concerns.

### 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:** 4.5

#### 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

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### 6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

**Response:** 3

#### 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

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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: 51.97

6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation/Induction Programme, Refresher Course, Short Term Course year-wise during the last five years

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6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff

Response:

A well-defined system for faculty appraisal is followed in the institute. This may be a valuable process for both the institute and the faculty, as it enhances communication channels and thereby establishing a constructive dialogue between the appraisers and the appraised.

The faculty members are expected to:

1. Provide periodical reports that correspond to their teaching and learning activities and cater to the needs of all instructional and mentoring responsibilities as specified in the policies and procedures.

2. Participate in scholarly and research activities which enhance their professional development.

3. Afford professional services to the university and community.

Implementation and Effectiveness of Faculty Appraisal System

- The performance appraisal is conducted at the end of every academic year. An effectively designed
Performance Appraisal Form is provided to every faculty member for self-evaluation. The weightage of the parameters in the Self Appraisal Form vary for Professors, Associate and Assistant Professors.

- Individual faculty’s contribution to institutional performance and their administrative Responsibilities will be filled by the faculty in their self-appraisal form. The assessment is done based on the self-appraisal evaluation form.
- The individual faculty member will then be asked to give a presentation in front of a committee which constitutes of Management, Principal, the respective HOD and an external subject expert. The presentation comprises of their academic performance, knowledge up gradation, notable contributions to the department and the institute and comparative statement of the past and present commitments.
- Suggestions and feedback will be given to improve their contribution in the subsequent year.
- This Performance Appraisal System has revealed an opportunity for every faculty member to know their strengths and weaknesses. The accomplishment of this evaluation process is the development of the institution along with self-growth of every faculty member.
- The feedback for each faculty, department wise is taken, formatted and sent to HOD with a copy to the Principal. The HOD discusses this with the faculty on a one on one basis and appreciates or counsels depending on their feedback.
- The score obtained in the feedback are taken as one part that qualifies the faculty for the “Best Teacher Award”. If the faculty has not met the commitments, they will be called and mentored by the Principal for improvement. The scores are also considered for increments.
- The system has been implemented successfully for the past ten years and found to be more effective to enrich the credentials of the faculty members.
- The HODs present their department activities for the academic year in front of a committee which constitutes of Management, Principal and an external subject expert. The strengths and weaknesses of the department will be thoroughly discussed and suggestions will be given by the committee for the next academic year.

### 6.4 Financial Management and Resource Mobilization

#### 6.4.1 Institution conducts internal and external financial audits regularly

**Response:**

Yes, the college conducts annual financial audit regularly. The procedure of the audit is as follows:

**Internal audit system:** - All the documents which are related to financial transaction are checked and verified by the authorities (college principal / finance officer).

**External audit system:** - The external financial audit is performed regularly by the registered CA.

Audit for year 2015-16 was conducted by the registered auditors in June, 2016.
Audit for year 2016-17 was conducted by the registered auditors in July, 2017.

Audit for year 2017-18 was conducted by the registered auditors in July, 2018.

Audit for year 2018-19 was conducted by the registered auditors in June, 2019.

Audit for year 2019-20 was conducted by the registered auditors in July, 2020.

The college has a mechanism for internal and external financial audits. Monitoring financial management practices is a significant process in the internal audit. An internal audit is carried out by the Finance Committee. Budget and statement of expenses are reviewed every quarter by the Finance Committee. The accounts of college are audited each year by the External Qualified Chartered Accountant appointed by the BRCM Educational Society. The Audited Report by the External CA is placed before the governing body for wetting and rectification if any. The qualified remarks given by the auditors are taken into consideration in the forthcoming years.

In the same manner, an external audit is also carried out in an elaborate way by Principal Auditor General, Govt. of Haryana. A team of 3-4 auditors is sent by Principal Auditor General (PAG) every year to verify/check the accounts of some months selected randomly by the team so sent. A team on the directions of Comptroller & Auditor General (CAG) may also be sent by the PAG on any year for Performance Audit of the University. Recently, on the directions of CAG, a team sent by PAG visited and stayed in the University for 3-4 months for Performance Audit for the period 2015-2020. There port on Performance Audit was sent by the PAG to the University for Comments on the observations made in the report. After obtaining the comments, the PAG submitted the report to the CAG for the year ended on June 30, 2020.

Budget provisions are formally identified and approved yearly. The expenditures are made in the most economical and transparent manner in conformity with the procedures prescribed in the rules. All the documents which are related to financial transaction are checked and verified by the authorities (college principal / finance officer). The income and expenditure of the University are subjected to the regular audit.

### 6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)

**Response:** 2661100

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6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

At the beginning of every financial year, the Governing Body and the Financial committee prepare the Financial year budget. The college budget includes all the recurring and non-recurring expenses, which include planned and unplanned expenses.

The planned utilization of fund is as given below:

- Approval and affiliation fee
- Creation and maintenance of academic infrastructure
- Purchasing of equipment's and software
- Research and development
- Admission Promotion

The Institute has a well-defined financial policy to ensure effective and optimal utilization of funds for academic, administrative, and infrastructure development purposes, which ultimately realizes its vision and mission.

For every academic year, the budget is prepared well in advance after considering the requirement of every Department. Each Department prepares its budget based on the requirements such as equipment, software, computers, printers, etc. for student and faculty activities, research and development in the departments, and consumables required for the next academic session. The principal puts up the budget in front of BOG, and after discussion and necessary corrections or modifications, the Governing Body recommends the budget for approval.

For an unplanned purchase or any other activity, the Institute makes a provision for the additional advance fund. The Principal and the Head of Departments discuss the requirement and decide the priorities while allotting financial resources for various purposes and ensuring optimum use of available financial resources.

Periodically, the Governing Body monitors the annual expenditure, scrutinizes the budget, and provides feedback about the efficient use of financial resources. The Institute has a standardized procedure for sanctioning funds for various activities and settlement of advance and passing of bills for payment.
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

Response:

The Internal Quality Assurance Cell (IQAC) is established in the institution to maintain and enhance quality of education. The prime task of IQAC is to develop a system for conscious, consistent and catalytic improvement in the performance of institution. The work of IQAC is the step towards the internalization and institutionalization of quality enhancement. To ensure efficient functioning of IQAC, coordinator of the cell interacts with various functionaries for effective implementation of IQAC and apprises chairperson of IQAC from time to time for the progress. The cell having meeting at least once in a year and record its deliberation and suggest improvements required if any in academic / administrative functions. The institute has well defined policy for the quality assurances which is ensured by the effective participation from all the stakeholders. The IQAC plays a vital role in maintaining and enhancing the quality of the institution and suggests quality enhancement measures to be adopted.

Quality Policy:

We aspire for global recognition through systematic and meticulous transformation of our students into highly motivated graduates enriched with professional competence, managerial skills, built in dynamism and humanism.

Quality Objectives are as under:

- Develop quality consciousness among everyone in the institution including students.
- Promote, foster and sustain an environment to achieve academic excellence.
- Maintain a good cooperative and beneficial relationship among all the stakeholders of the institution.

IQAC having meeting periodically and record its deliberation and suggest improvements required if any in academic / administrative functions. The composition / members of the IQAC cell are given below:

Chair Person – Principal, BRCMCET College of Engineering & Technology

IQAC Coordinator - Dr. Sunil Makkar, Assistant Professor, Computer Science department

Members from the Institution:

Director, BRHD Charitable Trust

HOD, Department of CSE
Establishment of IQAC is a concrete step towards development of students. Following best practices that have been institutionalized are:

1. **Total Quality Management (TQM)**

IQAC initiated the Internal Audit Cell (TQM). The members of the TQM shall be nominated by the Head of the Institution, one from each department, in the cadre of Assistant Professor or Associate Professor. Every academic year the TQM members will be doing quality check on different departments allotted by the TQM leader. TQM shall conduct internal academic audit, and produce the required documents and records to the External Auditor.

2. **Mentoring System:** IQAC initiated the student mentoring system to lift and monitor student’s progress at every juncture. In the system, each student is given close personal and professional mentorship with the assigned mentor. The performance of each student is checked and monitored and recorded by the mentors.

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6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations
and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)

Response:

The college reviews its teaching-learning process at periodic intervals through IQAC set up. After revising the teaching-learning process, the IQAC team made some suggestions. One suggestion was that teachers make study material available to students in both online and offline modes. A feedback system has also been adopted to evaluate teaching and learning processes. The IQAC team proposed to include technical training in the pre-final year prior to placement.

1. Easy availability of study materials

Textbooks were provided for all courses for all students from the College book bank. Apart from this, comprehensive study material was also arranged by the faculty for all the courses and given to all the students.

Online tutorial videos were created and uploaded by the faculty so that students can study through other means besides regular class. These online videos are also accessible to students through LAN on the campus.

Faculties as well as students are also encouraged to register and undergo online certification courses available on NPTEL. Signed up with NPTEL as a Local Chapter and have received all the course materials available with NPTEL in LAN for access to students anytime.

2. Enhancing the teaching-learning process by using a feedback system

For any educational institution, the response received from its stakeholders such as students, parents and alumni is very important. When feedback is used properly, it helps in the development of that institution. Presently realizing the importance of feedback for student teacher's relationships, the college has implemented a system of receiving feedback. In pursuit of the management direction, every effort is made to obtain feedback from them as possible to ensure commitment and honesty among the academic community.

The departments of college have a formal mechanism to obtain feedback from stakeholders to improve the quality of the teaching-learning process. Feedback is taken from students and their parents by distributing predefined proformas. In addition, the Alumni Association has been actively involved in furthering the educational cause of the institute, its faculty and students. The course curriculum is also regularly evaluated through formal/informal channels such as industry, alumni and academicians.

3. Pre-placement technical training and company-specific training

special placement training is planned for the students from the first year to the final year and is executed by a separate training cell. IQAC has played a key role in providing input to the training cell.

The Quality Management System accumulates the feedback of all recruiter and the same is passed on to the
training cell for analysis. Training cell also takes necessary corrective actions if needed. Placement training through online tests and training on aptitude skills are focused during the training. The performance of the students in aptitude and analytical skills are also evaluated periodically. A general pre-placement training in qualifications and soft skills has been in practice for pre-final year students for the past few years. Also based on the feedback received from the IQAC placement team, a specific technical training for all departments was also included. Company-specific training prior to the major recruiters’ placement visit is arranged and all the suitable students are given training as per the requirements of the company.

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### 6.5.3 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements
2. Collaborative quality initiatives with other institution(s)
3. Participation in NIRF
4. Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

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

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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:

The institute initiates various steps for the gender equity:

1. **Safety & Security**: The college campus is much concerned about safety & security of the students especially for the girls students. CCTV cameras are installed throughout the campus. The security staff is being deputed at the gate. Every student, staff members as well as the visitors are thoroughly checked and their entry is being registered at the gate. The discipline committee members as well as the security guard keeps on monitoring the college. The college building is surrounded by boundary wall. We have also provided the Bus facility to the students; mostly girl students are taking benefit of this facility. The girl students who want to go outside (during the college hours) are duly verified in consultation with their parents/Guardian.

2. **Counseling**: Women cell of the college looks after each & every concern of the girls student. The cell organized counseling sessions, different awareness programs, medical camps as well as other activities for the upliftment & empowerment of the girls. The college also motivates the girls students by organizing self defence training & lectures in collaboration with Police department. We have also Anti-Sexual harassment cell in our college.

3. **Girls Common Room**: Separate well equipped Girls common room is provided.

4. Awareness programs like “Beti Bachao-Beti Padhao” organized by NSS team of college on regular intervals.

These facts clearly indicate that the college has a very healthy atmosphere, concerned about gender sensitive issues and promoting actively gender-equity values.

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: A. 4 or All of the above
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:

At BRCM College of Engineering & Technology, activities pertaining to keep the environment green and pollution free are encouraged and best efforts to manage waste from its origin to its final disposal is done. This includes the collection, transport, treatment and disposal of waste. It is worth mentioning that it is mandatory for students of all branches to undergo a course named Environmental Science through which awareness about the environment and related issues with solution strategies is imparted. Many awareness environment awareness programs are also organized.

Waste Management is classified into six broad categories. They are:

**Solid Waste Management**

- Separate Dustbins for recyclable and non-recyclable wastes are available in common places.
- Paperless communication (e-mail / WhatsApp communication) is a regular practice.
- The single side papers are re-used for writing and printing circulars in all departments.
- Metal and wooden waste is stored and given to authorized agent for further processing.

**Liquid Waste Management**

- Sewage Treatment Plant (STP) is installed and the treated water from STP is used for several purposes like watering to plants and trees, cleaning and etc.
- Sprinklers are used in gardens to prevent water wastage.
- Rain Water Harvesting system is in place.
- Waste water from the RO plant is also used for watering the plants.
- Periodic checkup of plumbing lines is undertaken to ensure minimal loss of water due to leakage.

**Biomedical Waste Management**

- No Biomedical waste is generated in campus.

**E-Waste Management**
• Used batteries and electronics wastes are disposed of through outside agencies.
• Outdated computers with minimum configurations not suitable for the revised regulations of the University are given to the needy school students & staff for their usage or sold as scrap to authorized buyers.

Waste Recycling System

• Liquid waste is processed in Sewage Treatment Plant and the treated water is reused for gardening and toilet flush tanks.
• Biodegradable waste is processed for composting and the compost produced is used for gardening.

Hazardous Chemicals and Radioactive Waste Management

• Hazardous chemicals from laboratories that cannot be reused or recycled are disposed of in an environmentally sound manner as per the standard operating procedure.
• No radioactive waste is generated in campus.

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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: A. Any 4 or all of the above

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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: Any 4 or All of the above
7.1.6 Quality audits on environment and energy 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: A. Any 4 or all of the above

7.1.7 The Institution has disabled-friendly, barrier free environment

1. Built environment with ramps/lifts for easy access to classrooms.
2. Disabled-friendly washrooms
3. Signage including tactile path, lights, display boards and signposts
4. Assistive technology and facilities for persons with disabilities (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

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:

The institute is located at Bahal on the outskirts of Bhiwani which spreads over 130 acres of lush green campus enveloped with serene beauty and environment. Over 485 strength of students along with about 79 faculty members come from various cultural backgrounds, who carry forward their rich cultural diversities. Institution provides an inclusive environment for everyone with tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities. Different sports and cultural activities organized inside the college promote harmony towards each other.

Vijayadashami is a major Indian festival celebrated on the tenth day of Ashvin month according to the Hindu calendar. This day falls in the month of September or October. The day culminates a 9-day fasting period of Navratri in the Hindu culture. It also coincides with immersion of the idol of Goddess Durga. The day is celebrated to commemorate the killing of Ravana by Lord Rama. The institute celebrates Navarathri festival every year. All the members of teaching and non-teaching attend this celebration at college.
premises and special food which amplifies the spirit of togetherness. Individual departments perform Saraswathi Pooja in their respective laboratories invoking the blessings of the Almighty.

Regional events are also celebrated at the institute especially Teej celebrations. Now the students have themselves started enacting the whole story behind the colorful festival of Holi. The colorful Holi is celebrated with Flowers on the campus. Many competitions such as ‘Rangoli’ and ‘kite festival’ display the enthusiasm and teamwork of the faculty and students. Themes based on the role of agriculture are chosen for Rangoli competition.

Tolerance and Harmony to cultural, regional, linguistic, communal socioeconomic and other diversities is best achieved by the major events like Holy, Tech Fest, Diwali and Cultural Fest at Institute levels. Students have formed various clubs at the campus levels which also support and propagate the idea of diverse cultures. Tech Fest and Cultural Fest are annual events where the Institute invites popular music singers with their teams to enthral the students with rich cultural songs.

International Yoga day is being celebrated every year. International commemorative days like World Environment Day, international artist day and world poet day are conducted and marked by appropriate competitions. The students cultural programs has always themed of communal and inter-religious harmony.

There are different grievance redressal cells in the institute like Student grievance redressal cell, Women grievance redressal cell which deal with grievances without considering anyone’s racial or cultural background. Institute has code of ethics for students and a separate code of ethics for teachers and other employees which have to be followed by each one of them irrespective of their cultural, regional, linguistic, communal socioeconomic and other diversities.

Social connect with rural people residing in and around the institute is also encouraged respecting the cultural, communal, socioeconomic and linguistic values of locals.

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:

Sensitization of students and employees of any Institution to the constitutional obligations is significant and makes them realize their prime responsibilities. Therefore the college needs to make a basic sense of social responsibility and sensitize students to social cause and issues so that they may become efficient in the class and society. The college provides a positive environment to the students to understand issues concerning the society with the result the students feel productive and confident when they walk into work each day. Our college also encourages group volunteerism through seminars aiming at developing students personality and undertaken various activities from time to time to spread social awareness about issues like Communal harmony, blood donation, plantation camp, Beti Bachao Abhiyaan, Gandhi and Shastri Jayanti Celebration, drug abuse, health and hygiene, disaster management etc.

Republic day always celebrated annually remember the father of the Indian Constitution and to awaken constitutional values, rights, duties and responsibilities among students and staffs towards the nation.
Our college has a tradition where Hon’ble Principal directly interacts with the students on the first working day every year, wherein the students are made aware of their fundamental duties and responsibilities as a citizen as well as of being a student of the college. The college is a unique integration of quality education and overall development of students that empower them to become confident, competent and responsible global citizens who value education as a lifelong process.

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

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<tr>
<th>File Description</th>
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<tr>
<td>Code of ethics policy document</td>
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### 7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

**Response:**

BRCM CET organizes national festivals, birth and death anniversaries of great Indian personalities to promote national unity, integrity and patriotism among the young minds. Thoughts of great Indian personalities sowed into the minds of students through the programs conducted on these days. Staff and students get to know the importance of national integrity in the country in general and their role in it in particular.

Keeping in view of this, following programmes are conducted for the holistic development of Students:-

- 26th January Republic Day
- Holi
- 15th August Independence Day
- 5th September Teachers’ Day
- 15th September Engineers’ day
- 23 September Shaheedi Diwas
- Diwali

**Republic Day:**

The Republic Day is celebrated with gaiety and patriotic fervor at BRCM CET. On this privileged occasion, celebrations starts with the vibrant and elegant National Flag hoisting ceremony and the heartfelt
renditions of patriotic songs arises feelings of love and brotherhood among everyone.

Holi:

Holi, the festival of colors is very significant for our lives and body in various other ways than providing fun and the joy. Keeping this in mind, the institution celebrates this event with students, staff and other team members.

Independence Day:

The institution celebrates Independence Day every year by a simple and elegant flag hoisting ceremony with the presence of invited Chief Guest, who unfurls the national flag followed by a beaming patriotism outshined during the singing of National Anthem.

Teachers Day:

The institution celebrates Teachers day to commemorate the birth anniversary of the second President of India, Dr. Sarvepalli Radhakrishnan, a great teacher and a staunch believer of Education, on 5 September.

Engineers day (Birth Anniversary of Sir M. Visvesvaraya):

The institution celebrates this day on 15th September consistently as an exceptional tribute to the best Indian Engineer Bharat Ratna Mokshagundam Visvesvaraya.

Shaheedi Diwas:

The institution celebrates this day on every year, March 23rd is celebrated as Shaheed Diwas or Martyr’s Day. The Day is observed to commemorate the courage and heroism of three great young leaders Bhagat Singh, Sukhdev Thapar and Shivaram Rajguru.

Diwali:

Diwali is the “Festival of Lights” and one of the most festive and beautiful times of the year. Diwali literally means a “Row of Lights”. It is a time when Indians all over the world rejoice.

Celebrated on the 13th/14th day in the dark half of kartik(October-November). Diwali is also known as Krishna Chaturdashi. It is the darkest night of the darkest period, yet it is a celebration of light. Diwali is also heralded as the triumph of good over evil.

Join The BRCM CET community as we celebrate this auspicious day with traditional Indian food, sweets, music and light.

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:

Best Practice – 1

Title of the Practice: Centralized Internal Assessment Cell

Objective: The main purpose of introducing Centralized Internal Assessment Cell (CIAC) in BRCM College of Engineering & Technology is to bring transparency in the intermittent assessment of teaching learning process. The CIAC evaluates the performance of students over an interval of time within the semester and to make the examination an integral part of the teaching process. It is taking into account a number of essential abilities such as drive and capacity for hard work, leadership and team-work, motivation, skilled use of hands, etc.

The Context: Internal Assessment is a periodic and continuous process, in which assessment is done in relation to certain abilities and skills of the students. Internal assessment tests will be conducted by college as per University schedule, while end examinations are conducted by the University. Internal assessment is to be assessed by the faculty of the college. Internal assessment demands the outcome of the students than the ability and the skills of the students. CIAC in BRCMCET is a well-defined methodology to estimate the internal assessments meant for eliminating the problems relating to our examination system. A good internal evaluation system allows faculty members to assess the performance of students.

The Practice: BRCM College of Engineering & Technology is affiliated to Maharshi Dayanand University, Rohtak, follows the rules and regulations for evaluation process are laid down by the affiliating University and are communicated to students through syllabus copies supplied in the beginning of first year of their academic program. Institute CIAC is headed by the Principal, Dean Academic and assist by Examination Controller. An internal assessment test committee is also established in the college with Principal as the head and representatives from all the departments. IA Committee Meetings are conducted on regular basis. The institute exam cell is well established in terms of infrastructure, computing and printing facilities. The schedules of internal assessments are communicated to students and faculty in the beginning of the semester through institute academic calendar. Syllabus for internal assessment will be communicated to students well in advance. Question papers are set based on course outcomes and are approved by heads of the department. Scheme and Solution are prepared by the faculty and are displayed on the notice board on completion of the assessment. Any grievances in evaluation will be handled by faculty and HOD.

Internal question paper setting process: For every subject, respective faculty prepares question bank that covers equal number of questions covering all the topics. Department internal exam coordinator under the guidance of HOD, checks for the standard of the question bank. College Internal Exam Coordinator along with a team selects the final internal questions for each subject from the question bank. Question papers are given to the internal exam coordinators of the department on the day of test, after approval from the Principal. Faculty members prepare the answer key / scheme of evaluation. Internal exam coordinator ensures smooth conduction of test and proper valuation of internal books. A Centralized valuation system is followed. Three IA exams are conducted in a semester.

Evidence of Success: The success rate in the final university exam has been improved after the implementation of the centralized internal assessment cell. Consistent pass percentage (> 85%) as well as the number of University Ranks in UG and PG programs. The institution follows a very clear, well-
planned calendar which schedules the examination. The faculty members are completing the valuation within a specified time so that the student’s academic details can be passed to parents in time and they can attend the regular Parent-Teacher Meeting. The students with less mark in the respective subjects are identifying by the class in charges and remedial /tutorial classes are given on that basis.

**Problems Encountered**

Due to the hectic schedules given by the University we are encountering challenges to find time slots for conducting internal assessment examination. In spite of this difficulty we are somehow able to conduct the internal assessment examination.

**Best Practice – 2**

**Title of the Practice: Community approach through NSS**

**Objective:** The main objective of this initiative by the staff and students of the college is to reach out to the necessities of the society at larger and give back to the community. Creating awareness in the public on several issues they face in their day to day life, helping economically backward people, orphans and old age persons etc. are some of the initiative taken up to contribute to the society.

**The context:** Some of the students and staff of the college are voluntarily coming forward to contribute to remove disparity in different areas. The most important areas in which contribution is made are bringing awareness on several issues etc. NSS unit of this college is a collective initiative of students and staff to understand social problem troubling immediate local community in and around Bahal to integrate these issues with academic study.

**The practices:**

Blood donation programs are organized by the students and staff for blood bank in association with Red-Cross Society Bhiwani is an exemplary social service practice. Awareness programs on Beti Bachao Beti Padhao abhiyaan, First Aid and Home Nursing Course, Lecture on HIV/AIDS by civil surgeon Bhiwani and Safai Abhiyaan in PHC Bahal, Plantation Camp, Cleanliness of college campus and door to door awareness on Food Adulteration, cleaning of Gaushala and Dairy Farm, World Environment Day celebration under Uttam Bharat Abhiyaan (UBA), Adoption of the Villages of Bahal Clusters for Safai Abhiyan are some examples of work done by NSS team.

**Evidence of success**

The various programs under NSS unit initiative have been successful in education humanity and charity in the students. These programs are highly successful in bringing awareness in students and public on community living. The BRCM College of Engineering & Technology was also getting an award for “Swachh Bharat Mission”. Poor people who are benefited from various outreach programs themselves are testimony to the success of those programs. The awesome response from the society and those who received help from the college is an important factor that encourages the student to continue their activity.

**Problems Encountered**

Usually general public has a tendency to look down upon the awareness programs conducted by the
government. So there was a challenge in the beginning to involve general public to these activities. Students are finding it difficult to balance academic schedules and extension activities simultaneously. Lack of interest in some student’s funds mobilization has created some problems in providing extension activity.

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:

BRCM CET is very keen at facilitating personal commitment to the educational success of students and thus the Academic committee consisting of Principal / Director, senior faculty members and Examination Coordinator prepares the academic calendar well in advance before the commencement of the session/semester. The faculty members before the commencement of semester prepares the lesson plan, and make it available to the students. So many efforts are being made for the past few years to change the Teaching – Learning environment into activity based learning. Following are the methods adopted to transform the academic environment:

- Changing the teaching methodology by encouraging the faculty to use power point presentation where ever required.
- Extensive use of online – content and other Video lectures to support the Class – room teaching.
- Students are encouraged to present poster and oral paper presentations.
- Every Faculty member is allotted 10-15 students to acts as a mentor.
- The mentor identifies the academic and personal problems of his/her ward.
- The wards are encouraged to participate both in curricular and extra- curricular activities.
- Each department arranges guest lecturers periodically addressed by the eminent persons from Industry, Academic and Research Institutions.
- Eminent experts of National reputed people are invited from academic organization and industries for Seminar, workshop, conferences etc.

In addition to the classroom interactions, following are the other methods of learning experiences provided to the students:

- Project work
- Short term Industrial visit or Internships.
- Oral presentation
- Seminars/ Symposiaums/ Workshops
- Paper presentations/ Group discussions
- Providing access to e-journals and e-books by use of ICT in delivering and learning process.

Emphasis is paid to obtain feedback from parents, students, faculty members and alumni through informal contact to obtain information about qualitative changes which are required.
Feedback System –

- Students give feedback about the faculty at the end of each session or semester.
- Feedback is taken from the parents of the wards.
- Feedback is also taken from alumni.

The students play major role in the events like Annual day, Sports day etc., which are being organized by the college and inculcate the qualities of co-operation, co-ordination and team work.

Personality development programs and seminars are being conducted from the first year to improve communication skills & soft skills of the students.

Social Responsibility Activities like Go Green Activity through plantation, Blood Donation, Visiting Hospitals, & Interacting with patients and distribution of nutritious food, plantation and visiting nearby villages and helping them according to their requirements.

Achievement:

- Improved students understanding in domain knowledge.
- Improved results and pass percentage.
- Reduced backlogs and detention.
- Improved placements and opting for higher studies
5. CONCLUSION

Additional Information:

Other Strengths of BRCM CET:

- Highly-qualified and well-experienced faculty with strong subject knowledge and intense research interest.
- Excellent infrastructure which includes well-equipped laboratories, state-of-the-art digital library, smart classrooms, hi-tech seminar halls for effective teaching-learning.
- Implemented Enterprise Resource Planning (ERP) for the easy record and access to information related to admission, attendance, student feedback, marks etc.
- Improving collaborations with the industry in order to strengthen industry institute partnership and enhance internship and placement opportunities. As a pro-active measure Industry Partnership & Corporate Affairs office has been formed.
- Promoting research by providing support to teacher and research groups.
- Contributing to each individual’s personal growth by enabling them to develop the twenty-first-century skills: 4Cs – Communication, Collaboration, Creativity and Critical Thinking required at the workplace.

Concluding Remarks:

BRCM College of engineering & technology, known for holistic education, tries to be different from other colleges. The College values its uniqueness and continues to be different and not part of the crowd.

What motivates the college is its optimism and positive attitude. “If you have a positive attitude and constantly strive to give your best effort, eventually you will overcome your immediate problems and find you are ready for greater challenges.” These words of Pat Riley keeps BRCM College continue its good work and move ahead.