INTERNAL ACADEMIC AUDIT
RAMGARH ENGINEERING COLLEGE, RAMGARH, JHARKHAND

Objective:

The first and foremost objective of Academic Audit is to encourage the departments to evaluate and analyze the teaching learning process for imparting the quality education, modification of their methodology as and when required to strive for academic excellence.

(The activities are to be graded on the following scale)

Excellent	Good	Satisfactory	Needs improvement
A	B	C	D

Details of Programmes in the college:

S.No.	Name of the Programme
01	B.Tech in Mechanical Engineering
02	B.Tech in Civil Engineering
03	B.Tech in Electrical Engineering
04	B.Tech in Electronics and Communication Engineering
05	B.Tech in Computer Science Engineering

The following shows the Academic Audit report for Academic Year: - 2020-21.

INTERNAL ACADEMIC AUDIT REPORT

MECHANICAL ENGINEERING DEPARTMENT
RAMGARH ENGINEERING COLLEGE, RAMGARH, JHARKHAND

(ACADEMIC YEAR: - 2020-21)

Date of Audit: 29/07/21

Name and Designation of Audit Member-1: DR SUMANTA RAKSHIT, HOD (CE)

Name and Designation of Audit Member-2: Bhaskar Das (HOD) CSE.

1. Curricular Aspects

S.No.	Item	Observation	Grade	Remarks
1.1	Curricula developed /adopted have relevance to the local/ national /regional/global developmental needs with learning objectives including program outcomes, program specific outcomes and course outcomes of all programs Offered by all department.	The syllabus is designed by the Universities which include course objective and course outcomes.	A	The Institute is affiliated with two universities: 1st, 2^{nd,} 3rd, 4th, 5th, 6th, Semesters are affiliated to JUT, Ranchi and 7th & 8th semester is affiliated to VBU, Hazaribagh.
1.2	Percentage of new courses introduced of the total number of courses across all programs	No new courses introduced.	D	
1.3	Percentage of programs in which Choice Based Credit System (CBCS) / Elective course system has been implemented	Elective course system is present in VBU old curriculum which constitute around 8% of the total credit system.	B	% of the Elective course system is calculated by referring to the syllabus of the current academic session.
1.4	Institution integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum	Yes	A	Institute has got Women Empowerment Cell which tries to empower gender equality in different aspects of life. (Ref. : Women Empowerment Cell file)
1.5	Number of Value-added courses imparting transferable and life skills offered	5 (Extra Academic Activity, Mini Project, Project, Tour & Training, Internship)	B	The value – added courses are part of University curriculum. (Ref. : University Syllabus)
1.6	Feedback on curriculum and other	Alumni feedback	B	Feedback on curriculum from

		Parents Feedback Industrial Feedback Employer Feedback Campus Facility		stakeholders is done on Department level and the documents could be found in Departmental files, whereas feedbacks on campus facility is done on Institute level.
	aspects from stakeholders			

2. Teaching – Learning and Evaluation

S.No.	Item	Observation	Grade	Remarks
2.1	No. of students admitted in first year in the concerned department	21	B	Documents available with Admission In-charge
2.2	Number of full-time Teachers in the department	12	A	As stated in Criterion 5 of SAR. Document available at Institute level.
2.3	Number of students Enrolled in the department	174	B	As stated in Part A of SAR. Document available at Institute level.
2.4	Student - Full time teacher Ratio in the department	15	A	As calculated.
2.5	No. of permanent faculty with Ph.D in the department	3	C	Faculty list available at Institute level
2.6	Average teaching experience of full time teachers in years	4 years	B	As per average teaching experience calculated.
2.7	Total No. of teaching days	90(approx..)	A	Semester duration is of approximately 90 days.
2.8	Preparation and adherence to Academic Calendar and Teaching plans	Academic Calendar is prepared by Academic In-charge at the beginning of new semester and Class time table comes from Departments.	A	Documents available in Institute as well as Department files.

		Smart class teaching: Providing for better understanding of various concepts. 2. Power point presentation: Encouraged to bring clear idea. 3. SwayamPrabha Classroom: online NPTEL Lectures 4. Selected video lectures: Encouraged to bring clear idea about another resource. 5. Digital Library Facilities – Student can access E-Books and IEEE Journals. 6. Digital teaching platform like Google Classrooms for different courses. 7. Special lecture: Providing special tutorial class for weak students. 8. Hands on training: like mini project. 9. Project based learning: Encouraged to taking up many real time project.		Documents available at Department level.
2.9	Innovative processes adopted in Teaching and Learning			
2.10	Teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources, MOODLES etc.	NPTEL Lectures	B	
2.11	Remedial Classes for slow learners and backlog students	Monitoring and counseling by class teacher	C	Departments make sure that remedial classes are provided to weak students.
2.12	GATE Classes for Advanced Learners	*This was conducted by the department.*	B	*This was conducted by faculty of the department.*
2.13	Mentoring System	Students of 1st year is mentored as per AICTE norms.	B	Newly admitted students to first year B.Tech program are mentored as per AICTE norms. (Annexure I)
2.14	Adequate facilities for teaching – learning, viz., classrooms, laboratories, computing equipment, etc.	Yes	A	Smart classrooms, State of art laboratories, computer labs, Language lab., etc. available in the Institute

2.15	Advanced Research Centers	No	D	Should have Advanced research centers
2.16	Teachers attending professional development programs	Yes	B	Faculties have attended FDP/PDT at various IITs/IIMs/NITs. Documents available in their personal files at Department level.
2.17	Organization of Guest Lectures, Industrial Visits, Workshops, etc.,	Yes	C	Guest lectures, Industrial visits, workshops, etc. are organized by Departments. (Ref.: Documents available in Departments).
2.18	Online Certification Programs	Yes	C	Students/ Faculties are in involved in several online certification program such as NPTEL/ SWAYAM, Coursera, etc. (Ref.: Documents available in Departments)
2.19	Student Professional Society Chapter and Association Activities	Yes	C	Students are associated with Institution Of Engineers India (IEI) whose membership was sponsored by TEQIP (Ref.: Documents available in TEQIP cell).
2.20	Students undertaking field projects / internships	Yes	A	Internship is a part of curriculum and nearly all the students do internship as vocational training. (Ref.: Documents available with Training and Placement cell)
2.21	Dissemination of PEOs, POs, PSOs, COs	Yes	A	Available in Course file at Department level.
2.22	Attainment of COs, POs, PSOs	Yes	A	Available in Course file at Department level.
2.23	Online student satisfaction survey	Yes	B	Student feedback is available at Department level.

3. Research and Innovation

S.N0.	Item	Observation	Grade	Remarks
3.1	The institution has a well-defined policy for promotion of research	Yes	B	Policy is mentioned in service rule of the Institute.
3.2	The institution provides seed money to its teachers	No	D	
3.3	Teachers recognized as research guides from the department	No	D	
3.4	Sponsored research Projects and consultancy	No	D	Department is trying its best to secure sponsored research project
3.5	Workshops/seminars conductedon Intellectual Property Rights(IPR) and Industry-Academia Innovative practices	Yes	B	One number of Seminar conducted on Industry- Academia Innovative practices.
3.6	Research Publications	Yes	B	Faculties actively publishes articles in Research Journals.
3.7	No. of Faculty participated in conferences and symposia	4	B	Faculties participate in conferences time to time.
3.8	Books and chapters in edited volumes / books published, and papers in national/international Conference - proceedings.	6	B	Good number of research publications and book chapters have been published.
3.9	Revenue generated from Consultancy	No	D	
3.10	Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc.	Yes	B	Files available in Training and Placement cell.
3.11	Functional MoUs	Yes	C	Files available in Training and Placement cell.

4. Central library Facility

S.No.	Item	Observation	Grade	Remarks
4.1	Library is automated using Integrated Library Management System (ILMS)	YES	B	Central library uses KOHA as Library Management System (ILMS)
4.2	Collection of rare books, manuscripts, special reports or any other knowledge resource for library enrichment	NO	D	
4.3	Does the institution have the following: e – journals, e-ShodhSindhu, Shodhganga membership, e-books, Databases	YES	B	Central Library has facility for e-journals, e-books etc. (Ref.: Documents available in Library)
4.4	Availability of digital library with a provision for remote access on intranet	YES	B	Digital library is adjacent to Central Library with a provision for remote access on intranet.
4.5	Per day usage of library by teachers and students	YES	A	The attendance is maintained in a register in the Central Library.

5. Examination Section

S.No.	Item	Observation	Grade	Remarks
5.1	Number of days from the date of last semester-end/ year- end examination till the declaration of results	60 days (approx..)	A	Days are usually not defined. University declares result approximately after 60 days of the end-semester exam.
5.2	Percentage of studentcomplaints/grievances about evaluation against total number appeared in the examinations	NA	D	Students address their grievances directly to the University.
5.3	Percentage of applications for	0		No one applied for revaluation.

	revaluation leading to change in marks		B	
5.4	Result Analysis	Yes	A	The Departments analyzed the results for the session 2018-19. Remedial classes for weak students are arranged by the departments. Result Analysis report is available with the IQAC .

6. Amenities and Sports facilities

S.No.	Item	Observation	Grade	Remarks
6.1	The institution has adequate facilities for sports, games (indoor, outdoor, gymnasium, yoga centre etc.,) andcultural activities	Yes, All facilities of sports have there and cultural activities have been organizing by students.	B	Files available with Sports In-charge.
6.2	Awards/medals for outstandingperformance in sports, Yoga /culturalActivities at Institute level.	Yes it is.	B	Files available with Sports In-charge.
6.3	Number of sports, Yoga and cultural activities / competitions organized at the institution level.	Every year it is organized.	B	Files available with Sports In-charge.

7. Placements and Higher Education

S.No.	Item	Observation	Grade	Remarks
7.1	Capability enhancement and development schemes	Yes	B	Employability Skill classes sponsored through TEQIP.
7.2	No of students benefited by guidance for competitive examinations and career counselling offered by the institution	49	B	GATE Coaching sponsored by TEQIP.
7.3	Number of placements of outgoing students	3	D	Data available in Training and Placement Cell.
7.4	Students Qualified in Competitive Examinations	3	D	

8.Alumni Engagement

S.No.	Item	Observation	Grade	Remarks
8.1	Alumni contributions	Yes	B	As a stake holder while finalizing Mission, Vision, identifying curriculum GAP, indirect attainment of Program Outcomes.
8.2	Alumni Association / Chapters meetings Conducted	Yes	B	Alumni meeting conducted.

9. Best Practices of the Department

S.No.	Item	Grade
9.1	Value addition by certification programs as well as technology training is focused through Skill Development Centre (APSSDC, IITB-RC, NPTEL, Spoken tutorial, SwayamPrabha).	B
9.2	Student participation in Innovation, Incubation and Entrepreneurship activities through CIIE.	D
9.3	Departmental initiative for placements in core domains other than central Training and Placement cell.	C
9.4	Alumni involvement in placement drive.	C
9.5	The course coordinator system has been continued.	B
9.6	Conduct of subject based Seminars and workshops have been continued. Involvement of students in various committees has been increased.	C
9.7	The practice of conducting Guest lectures, Industrial visits and Industrial training has been enhanced.	C
9.8	The functioning of Research groups to promote better quality research and publications has been strengthened.	C
9.9	More Practical orientation is supported through Mini-projects, Technical seminars.	A
9.10	Industry Internship is made mandatory for all students	A
9.11	Continuous inputs from all stakeholders like Alumni, Academicians and Industry experts are taken to improve the curriculum on regular basis.	A
9.12	Participation of students in Sports, Games at National and International level, NCC, NSS activities.	C

Suggestions for improvement:

1. Improvement require in the consultancy work
2. More no. of extra activity classes are and industrial raining is required .
3. Gender equity promotion programs should be organized by the Institute at departmental level.
4. Central library should enrich itself with some rare books/ journals etc.

Signature of AAA member 1   *Samanbh*
                                           29/07/21

Name: DY. SUMANTA RAKSHIT

Designation: HOD (CE)

Address: REC, Ramgarh

Mobile No.: 6294 856238

Signature of AAA member 2   29/7/2021

Name: BHASKAR DAS

Designation: HOD (CSE)

Address: REC, Ramgarh

Mobile No.: 9749275190

Internal Quality Assurance Cell (IQAC)

INTERNAL ACADEMIC AUDIT REPORT

CIVIL ENGINEERING DEPARTMENT
RAMGARH ENGINEERING COLLEGE, RAMGARH, JHARKHAND

(ACADEMIC YEAR: - 2020-21)

Date of Audit: 29/7/2021

Name and Designation of Audit Member-1:   BHASKAR DAS , HOD CSE .

Name and Designation of Audit Member-2: Brajesh
Dr. BRAJESH KUMAR
Associate professor
ECE Department

1. Curricular Aspects

S.No.	Item	Observation	Remarks
1.1	Curricula developed /adopted have relevance to the local/ national /regional/global developmental needs with learning objectives including program outcomes, program specific outcomes and course outcomes of all programs Offered by all department.	The syllabus is designed by the Universities which include course objective and course outcomes.	The Institute is affiliated with two universities: 1st ,2nd , 3rd, 4th, 5th, 6th Semester is affiliated to JUT, Ranchi and, 7th & 8th semester is affiliated to VBU, Hazaribagh.
1.2	Percentage of new courses introduced of the total number of courses across all programs	No new courses introduced.	
1.3	Percentage of programs in which Choice Based Credit System (CBCS) / Elective course system has been implemented	Elective course system is present in VBU old curriculum which constitute around 8% of the total credit system.	% of the Elective course system is calculated by referring to the syllabus of the current academic session.
1.4	Institution integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum	Yes	Institute has got Women Empowerment Cell which tries to empower gender equality in different aspects of life. (Ref. : Women Empowerment Cell file)
1.5	Number of Value-added courses imparting transferable and life skills offered	5 (Extra Academic Activity, Mini Project, Project, Tour & Training, Internship)	The value – added courses are part of University curriculum. (Ref. : University Syllabus)
1.6	Feedback on curriculum and other	Alumni feedback	Feedback on curriculum from

| | | Parents Feedback
Industrial Feedback
Employer Feedback
Campus Facility | stakeholders is done on Department level and the documents could be found in Departmental files, whereas feedbacks on campus facility is done on Institute level. |
| | aspects from stakeholders | | |

2. Teaching – Learning and Evaluation

S.No.	Item	Observation	Remarks
2.1	No. of students admitted in first year in the concerned department	29	Documents available with Admission In-charge
2.2	Number of full-time Teachers in the department	08	As stated in Criterion 5 of SAR. Document available at Institute level.
2.3	Number of students Enrolled in the department	200	As stated in Part A of SAR. Document available at Institute level.
2.4	Student - Full time teacher Ratio in the department	25	As calculated.
2.5	No. of permanent faculty with Ph.D in the department	03	Faculty list available at Institute level
2.6	Average teaching experience of full time teachers in years	4 years	As per average teaching experience calculated.
2.7	Total No. of teaching days	90(approx..)	Semester duration is of approximately 90 days.
2.8	Preparation and adherence to Academic Calendar and Teaching plans	Academic Calendar is prepared by Academic In-charge at the beginning of new semester and Class time table comes from Departments.	Documents available in Institute as well as Department files.

			Documents available at Department level.
2.9	Innovative processes adopted in Teaching and Learning	Smart class teaching: Providing for better understanding of various concepts. 2. Power point presentation: Encouraged to bring clear idea. 3. Swayam Prabha Classroom: online NPTEL Lectures 4. Selected video lectures: Encouraged to bring clear idea about another resource. 5. Digital Library Facilities – Student can access E-Books and IEEE Journals. 6. Digital teaching platform like Google Classrooms for different courses. 7. Special lecture: Providing special tutorial class for weak students. 8. Hands on training: like mini project. 9. Project based learning: Encouraged to taking up many real time project.	
2.10	Teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources, MOODLES etc.	NPTEL Lectures	
2.11	Remedial Classes for slow learners and backlog students	Monitoring and counseling by class teacher	Departments make sure that remedial classes are provided to weak students.
2.12	GATE Classes for Advanced Learners	It was provided for 2015-19, 2016-20 and 2017-21 batch students.	The GATE Coach provided the GATE classes for advanced learners which was sponsored by TEQIP.
2.13	Mentoring System	Students of 1st year is mentored as per AICTE norms.	Newly admitted students to first year B.Tech program are mentored as per AICTE norms. (Annexure I)
2.14	Adequate facilities for teaching – learning, viz., classrooms, laboratories, computing equipment, etc.	Yes	Smart classrooms, State of art laboratories, computer labs, Language lab., etc. available in the Institute
2.15	Advanced Research Centers	No	Should have Advanced research centers

2.16	Teachers attending professional development programs	Yes	Faculties have attended FDP/PDT at various IITs/IIMs/NITs. Documents available in their personal files at Department level.
2.17	Organization of Guest Lectures, Industrial Visits, Workshops, etc.,	Yes	Guest lectures, Industrial visits, workshops, etc. are organized by Departments. (Ref.: Documents available in Departments).
2.18	Online Certification Programs	Yes	Students/ Faculties are in involved in several online certification program such as NPTEL/ SWAYAM, Coursera, etc. (Ref.: Documents available in Departments)
2.19	Student Professional Society Chapter and Association Activities	Yes	Students are associated with Institution Of Engineers India (IEI) whose membership was sponsored by TEQIP (Ref.: Documents available in TEQIP cell).
2.20	Students undertaking field projects / internships	Yes	Internship is a part of curriculum and nearly all the students do internship as vocational training. (Ref.: Documents available with Training and Placement cell)
2.21	Dissemination of PEOs, POs, PSOs, COs	Yes	Available in Course file at Department level.
2.22	Attainment of COs, POs, PSOs	Yes	Available in Course file at Department level.
2.23	Online student satisfaction survey	Yes	Student feedback is available at Department level.

3. Research and Innovation

S.N0.	Item	Observation	Remarks
3.1	The institution has a well-definedpolicy for promotion of research	Yes	Policy is mentioned in service rule of the Institute.
3.2	The institution provides seed money to its teachers	No	
3.3	Teachers recognized as researchguides from the department	No	
3.4	Sponsored research Projects and consultancy	No	Department is trying its best to secure sponsored research project
3.5	Workshops/seminars conductedon Intellectual Property Rights(IPR) and Industry-Academia Innovative practices	Yes	Two numbers of 1-Day webinars were conducted in July 2020 and March 2021.
3.6	Research Publications	Yes	Faculties actively publishes articles in Research Journals.
3.7	No. of Faculty participated in conferences and symposia	NA	Faculties participate in conferences time to time. However, no one have participated in year 2021.
3.8	Books and chapters in edited volumes / books published, and papers in national/international Conference - proceedings.	NA	Good number of research publications and book chapters have been published in previous academic year.
3.9	Revenue generated from Consultancy	No	In a process of generation of revenue. Consultancy service has been started in the Institute and is on verge to generating the revenue.
3.10	Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc.	Yes	Files available in Training and Placement cell.
3.11	Functional MoUs	Yes	Files available in Training and Placement cell.

4. Central library Facility

S.No.	Item	Observation	Remarks
4.1	Library is automated using Integrated Library Management System (ILMS)	YES	Central library uses KOHA as Library Management System (ILMS)
4.2	Collection of rare books, manuscripts, special reports or any other knowledge resource for library enrichment	NO	
4.3	Does the institution have the following: e – journals, e-ShodhSindhu, Shodhganga membership, e-books, Databases	YES	Central Library has facility for e-journals, e-books etc. (Ref.: Documents available in Library)
4.4	Availability of digital library with a provision for remote access on intranet	YES	Digital library is adjacent to Central Library with a provision for remote access on intranet.
4.5	Per day usage of library by teachers and Students	YES	The attendance is maintained in a register in the Central Library.

5. Examination Section

S.No.	Item	Observation	Remarks
5.1	Number of days from the date of last semester-end/ year- end examination till the declaration of results	60 days (approx..)	Days are usually not defined. University declares result approximately after 60 days of the end-semester exam.
5.2	Percentage of student complaints/grievances about evaluation against total number appeared in the Examinations	NA	Students address their grievances directly to the University.
5.3	Percentage of applications for revaluation leading to change in marks	0	No one applied for revaluation.
5.4	Result Analysis		The Departments analyzed the

			results for the session 2019-20. Remedial classes for weak students are arranged by the departments. Result Analysis report is available with the IQAC.
		Yes	

6. Amenities and Sports facilities

S.No.	Item	Observation	Remarks
6.1	The institution has adequate facilities for sports, games (indoor, outdoor, gymnasium, yoga centre etc.,) and cultural activities	Yes, All facilities of sports have there and cultural activities have been organizing by students.	Files available with Sports In-charge.
6.2	Awards/medals for outstanding performance in sports, Yoga /culturalActivities at Institute level.	Yes it is.	Files available with Sports In-charge.
6.3	Number of sports, Yoga and cultural activities / competitions organized at the institution level.	Every year it is organized.	Files available with Sports In-charge.

7. Placements and Higher Education

S.No.	Item	Observation	Remarks
7.1	Capability enhancement and development schemes	NA	Employability Skill classes sponsored through TEQIP were provided till academic year 2019-20.
7.2	No of students benefited by guidance for competitive examinations and career counselling offered by the institution	08	GATE Coaching sponsored by TEQIP were provided till academic year 2019-20. However, students of batch 2017-21 also attended (in 3rd year) this Gate Coaching and got benefitted.
7.3	Number of placements of outgoing students	NA	Data available in Training and Placement Cell.
7.4	Students Qualified in Competitive Examinations	08	Through GATE coaching provided by the Institute 08 number of students got qualified.

8. Alumni Engagement

S.No.	Item	Observation	Remarks
8.1	Alumni contributions	Yes	As a stake holder while finalizing Mission, Vision, identifying curriculum GAP, indirect attainment of Program Outcomes.
8.2	Alumni Association / Chapters meetings Conducted	Yes	Alumni meeting conducted.

9. Best Practices of the Department

S.No.	Items	Grade
9.1	Value addition by certification programs as well as technology training is focused through Skill Development Centre (APSSDC, IITB-RC, NPTEL, Spoken tutorial, Swayam Prabha).	B
9.2	Student participation in Innovation, Incubation and Entrepreneurship activities through CIIE.	C
9.3	Departmental initiative for placements in core domains other than central Training and Placement cell.	D
9.4	Alumni involvement in placement drive.	C
9.5	The course coordinator system has been continued.	C
9.6	Conduct of subject based Seminars and workshops have been continued. Involvement of students in various committees has been increased.	B
9.7	The practice of conducting Guest lectures, Industrial visits and Industrial training has been enhanced.	C
9.8	The functioning of Research groups to promote better quality research and publications has been strengthened.	D
9.9	More Practical orientation is supported through Mini-projects, Technical seminars.	B
9.10	Industry Internship is made mandatory for all students	C
9.11	Continuous inputs from all stakeholders like Alumni, Academicians and Industry experts are taken to improve the curriculum on regular basis.	B
9.12	Participation of students in Sports, Games at National and International level, NCC, NSS activities.	B

Suggestions for improvement:

1. More number of faculties should attend conferences/symposia (offline/online).
2. Number of students have declined who have qualified GATE exam, so some emphasize should be given on such type of exams.
3. Department should come up with consultancy work.

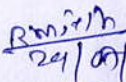Signature of AAA member 1   29/7/2021

Name: BHASKAR DAS

Designation: HOD CSE

Address: RBC, Ramgarh

Mobile No.: 9749275190

Signature of AAA member 2   29/07/21

Name: Dr. Brajesh Kumar

Designation: Associate Professor

Address: REC campus

Mobile No.: 9798490798

Internal Quality Assurance Cell (IQAC)

INTERNAL ACADEMIC AUDIT REPORT

ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT
RAMGARH ENGINEERING COLLEGE, RAMGARH, JHARKHAND

(ACADEMIC YEAR: - 2020-21)

Date of Audit: 29/07/21

Name and Designation of Audit Member-1: DR. SUMANTA RAKSHIT, HOD (CE)

Name and Designation of Audit Member-2: BHASKAR DAS, HOD (CSE)

1. Curricular Aspects

S.No.	Item	Observation	Grade	Remarks
1.1	Curricula developed /adopted have relevance to the local/ national /regional/global developmental needs with learning objectives including program outcomes, program specific outcomes and course outcomes of all programs Offered by all department.	The syllabus is designed by the Universities which include course objective and course outcomes.	A	The Institute is affiliated with two universities: 1st & 2nd Semester is affiliated to JUT, Ranchi and 3rd, 4th, 5th, 6th, 7th & 8th semester is affiliated to VBU, Hazaribagh.
1.2	Percentage of new courses introduced of the total number of courses across all programs	No new courses introduced.	D	
1.3	Percentage of programs in which Choice Based Credit System (CBCS) / Elective course system has been implemented	Elective course system is present in VBU old curriculum which constitute around 8% of the total credit system.	B	% of the Elective course system is calculated by referring to the syllabus of the current academic session.
1.4	Institution integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum	Yes	B	Institute has got Women Empowerment Cell which tries to empower gender equality in different aspects of life. (Ref. : Women Empowerment Cell file)
1.5	Number of Value-added courses	5 (Extra Academic Activity, Mini	C	The value – added courses are part of University curriculum. (Ref. : University Syllabus)

S.No	Item	Observation	Grade	Remarks
	imparting transferable and life skills offered	Project, Project, Tour & Training, Internship)		
1.6	Feedback on curriculum and other aspects from stakeholders	Alumni feedback Parents Feedback Industrial Feedback Employer Feedback Campus Facility	B	Feedback on curriculum from stakeholders is done on Department level and the documents could be found in Departmental files, whereas feedbacks on campus facility is done on Institute level.

2. Teaching – Learning and Evaluation

S.No.	Item	Observation	Grade	Remarks
2.1	No. of students admitted in first year in the concerned department	12	B	Documents available with Admission In-charge
2.2	Number of full-time Teachers in the department	14	A	As stated in Criterion 5 of SAR. Document available at Department level.
2.3	Number of students Enrolled in the department	118	B	As stated in Part A of SAR. Document available at Institute level.
2.4	Student - Full time teacher Ratio in the department	8.4	A	As calculated.
2.5	No. of permanent faculty with Ph.D in the department	3	C	Faculty list available at Institute level
2.6	Average teaching experience of full time teachers in years	9.3 years	B	As per average teaching experience calculated.
2.7	Total No. of teaching days	90(approx..)	A	Semester duration is of approximately 90 days.
2.8	Preparation and adherence to Academic Calendar and Teaching plans	Academic Calendar is prepared by Academic In-charge at the beginning of new semester and Class time table comes from Departments.	A	Documents available in Institute as well as Department files.

		Smart class teaching: Providing for better understanding of various concepts. 2. Power point presentation: Encouraged to bring clear idea. 3. Swayam Prabha Classroom: online NPTEL Lectures 4. Selected video lectures: Encouraged to bring clear idea about another resource. 5. Digital Library Facilities – Student can access E-Books and IEEE Journals.		Documents available at Department level.
2.9	Innovative processes adopted in Teaching and Learning	6. Digital teaching platform like Google Classrooms for different courses. 7. Special lecture: Providing special tutorial class for weak students. 8. Hands on training: like mini project. 9. Project based learning: Encouraged to taking up many real time project.		
2.10	Teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources, MOODLES etc.	NPTEL Lectures	B	
2.11	Remedial Classes for slow learners and backlog students	Monitoring and counseling by class teacher	C	Departments make sure that remedial classes are provided to weak students.

2.12	GATE Classes for Advanced Learners	It was provided years. r 2015-19) batch)	B	The GATE Academy provided the GATE classes for advanced learners which was sponsored by TEQIP.
2.13	Mentoring System	Students of 1st year is mentored as per AICTE norms.	B	Newly admitted students to first year B.Tech program are mentored as per AICTE norms. (Annexure I)
2.14	Adequate facilities for teaching – learning, viz., classrooms, laboratories, computing equipment, etc.	Yes	A	Smart classrooms, State of art laboratories, computer labs, Language lab., etc. available in the Institute
2.15	Advanced Research Centers	No	D	Should have Advanced research centers
2.16	Teachers attending professional development programs	Yes	B	Faculties have attended FDP/PDT at various IITs/IIMs/NITs. Documents available in their personal files at Department level.
2.17	Organization of Guest Lectures, Industrial Visits, Workshops, etc.,	Yes	C	Guest lectures, Industrial visits, workshops, etc. are organized by Departments. (Ref.: Documents available in Departments).
2.18	Online Certification Programs	Yes	C	Students/ Faculties are in involved in several online certification program such as NPTEL/ SWAYAM, Coursera, etc. (Ref.: Documents available in Departments)
2.19	Student Professional Society Chapter and Association Activities	Yes	C	Students are associated with Institution Of Engineers India (IEI) whose membership was sponsored by TEQIP (Ref.: Documents available in TEQIP cell).
2.20	Students undertaking field projects / internships	Yes	A	Internship is a part of curriculum and nearly all the students do internship as vocational training. (Ref.: Documents available with Training and Placement cell)
2.21	Dissemination of PEOs, POs, PSOs, COs	Yes	A	Available in Course file at Department level.
2.22	Attainment of COs, POs, PSOs	Yes	A	Available in Course file at Department level.
2.23	Online student satisfaction survey	Yes	B	Student feedback is available at Department level.

3. Research and Innovation

S.N0.	Item	Observation	Grade	Remarks
3.1	The institution has a well-defined policy for promotion of research	Yes	B	Policy is mentioned in service rule of the Institute.
3.2	The institution provides seed money to its teachers	No	D	
3.3	Teachers recognized as research guides from the department	No	D	
3.4	Sponsored research Projects and consultancy	Yes	D	CRS Project funded by TEQUIP and MHRD
3.5	Workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices	Yes	B	One number of Seminar conducted on Industry-Academia Innovative practices.
3.6	Research Publications	Yes	B	Faculties actively publishes articles in Research Journals.
3.7	No. of Faculty participated in conferences and symposia	3	B	Faculties participate in conferences time to time.
3.8	Books and chapters in edited volumes / books published, and papers in national/international Conference - proceedings.	3	B	Good number of research publications and book chapters have been published.
3.9	Revenue generated from Consultancy	No	D	
3.10	Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc.	Yes	B	Files available in Training and Placement cell.
3.11	Functional MoUs	Yes	C	Files available in Training and Placement cell.

4. Central library Facility

S.No.	Item	Observation	Grade	Remarks
4.1	Library is automated using Integrated Library Management System (ILMS)	YES	B	Central library uses KOHA as Library Management System (ILMS)
4.2	Collection of rare books, manuscripts, special reports or any other knowledge resource for library enrichment	NO	D	
4.3	Does the institution have the following: e – journals, e-ShodhSindhu, Shodhganga membership, e-books, Databases	YES	B	Central Library has facility for e-journals, e-books etc. (Ref.: Documents available in Library)
4.4	Availability of digital library with a provision for remote access on intranet	YES	B	Digital library is adjacent to Central Library with a provision for remote access on intranet.
4.5	Per day usage of library by teachers and students	YES	A	The attendance is maintained in a register in the Central Library.

5. Examination Section

S.No.	Item	Observation	Grade	Remarks
5.1	Number of days from the date of last semester-end/ year- end examination till the declaration of results	60 days (approx..)	A	
5.2	Percentage of student complaints/grievances about evaluation against total number appeared in the examinations	NA	D	
5.3	Percentage of applications for revaluation	0		

	leading to change in marks		B	
5.4	Result Analysis	Yes	A	The Departments analyzed the results for the session 2018-19. Remedial classes for weak students are arranged by the departments. Result Analysis report is available with the IQAC.

6. Amenities and Sports facilities

S.No.	Item	Observation	Grade	Remarks
6.1	The institution has adequate facilities for sports, games (indoor, outdoor, gymnasium, yoga Centre etc.,) and cultural activities	Yes, All facilities of sports have there and cultural activities have been organizing by students.	B B	Files available with Sports In-charge.
6.2	Awards/medals for outstanding performance in sports, Yoga /cultural Activities at Institute level.	Yes it is.	B	Files available with Sports In-charge.
6.3	Number of sports, Yoga and cultural activities / competitions organized at the institution level.	Every year it is organized.	B	Files available with Sports In-charge.

7. Placements and Higher Education

S.No.	Item	Observation	Grade	Remarks
7.1	Capability enhancement and development schemes	Yes	B	Employability Skill classes sponsored through TEQIP.
7.2	No of students benefited by guidance for competitive examinations and career counselling offered by the institution	Presently they are in final semester	B	GATE Coaching sponsored by TEQIP.
7.3	Number of placements of outgoing students	yes		Data available in Training and Placement Cell.
7.4	Students Qualified in Competitive Examinations		D	Through GATE coaching provided by the Institute 08 number of students got qualified from the department.

8. Alumni Engagement

S.No.	Item	Observation	Grade	Remarks
8.1	Alumni contributions	Yes	B	As a stake holder while finalizing Mission, Vision, identifying curriculum GAP, indirect attainment of Program Outcomes.
8.2	Alumni Association / Chapters meetings Conducted	Yes	B	Alumni meeting conducted.

9. Best Practices of the Department

S.No.	Item	Grade
9.1	Value addition by certification programs as well as technology training is focused through Skill Development Centre (APSSDC, IITB-RC, NPTEL, Spoken tutorial, Swayam Prabha).	B
9.2	Student participation in Innovation, Incubation and Entrepreneurship activities through CIIE.	D
9.3	Departmental initiative for placements in core domains other than central Training and Placement cell.	C
9.4	Alumni involvement in placement drive.	C
9.5	The course coordinator system has been continued.	B
9.6	Conduct of subject based Seminars and workshops have been continued. Involvement of students in various committees has been increased.	C
9.7	The practice of conducting Guest lectures, Industrial visits and Industrial training has been enhanced.	C
9.8	The functioning of Research groups to promote better quality research and publications has been strengthened.	C
9.9	More Practical orientation is supported through Mini-projects, Technical seminars.	A
9.10	Industry Internship is made mandatory for all students	A
9.11	Continuous inputs from all stakeholders like Alumni, Academicians and Industry experts are taken to improve the curriculum on regular basis.	A
9.12	Participation of students in Sports, Games at National and International level, NCC, NSS activities.	C

Suggestions for improvement:

1. Electronics based skill development program organized by department for revenue generation.
2. Organization of workshop related drone and Arduino based for intermediate students
3. Remedial classes for weak/ slow learners should be arranged by the department.
4. Gender equity promotion programs should be organized by the Institute at departmental level.
5. Central library should enrich itself with some rare books/ journals etc.

Signature of AAA member 1   *Done with 29/07/21*

Name: DR. SUMANTA RAKSHIT

Designation: HOD (CE)

Address: REC, Ramgarh

Mobile No.: 6294856238

Signature of AAA member 2   *29/7/2021*

Name: BHASKAR DAS

Designation: HOD (CSE)

Address: REC, Ramgarh

Mobile No.: 9749275190

ACADEMIC AUDIT REPORT

COMPUTER SCIENCE AND ENGINEERING DEPARTMENT
RAMGARH ENGINEERING COLLEGE, RAMGARH, JHARKHAND

(ACADEMIC YEAR: - 2020-21)

Date of Audit: 29|07|21

Name and Designation of Audit Member-1: Dr. SUMANTA RAKSHIT, HOD (CE).

Name and Designation of Audit Member-2: Dr. BRAJESH KUMAR
Associate professor
Department ECE

1. Curricular Aspects

S.No.	Item	Observation	Grade	Remarks
1.1	Curricula developed /adopted have relevance to the local/ national /regional/global developmental needs with learning objectives including program outcomes, program specific outcomes and course outcomes of all programs Offered by all department.	The syllabus is designed by the Universities which include course objective and course outcomes.	A	The Institute is affiliated with two universities: 1st & 2nd Semester is affiliated to JUT, Ranchi and 3rd, 4th, 5th, 6th, 7th & 8th semester is affiliated to VBU, Hazaribagh.
1.2	Percentage of new courses introduced of the total number of courses across all programs	No new courses introduced.	D	
1.3	Percentage of programs in whichChoice Based Credit System (CBCS) / Elective course system has been implemented	Elective course system is present in VBU old curriculum which constitute around 8% of the total credit system.	B	% of the Elective course system is calculated by referring to the syllabus of the current academic session.
1.4	Institution integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum	Yes	A	Institute has got Women Empowerment Cell which tries to empower gender equality in different aspects of life. (Ref. : Women Empowerment Cell file)
1.5	Number of Value-added courses imparting transferable and life skills offered	4(Extra Academic Activity, Mini Project, Project, Internship)	B	The value – added courses are part of University curriculum. (Ref. : University Syllabus)
1.6	Feedback on curriculum and other	Alumni feedback Parents Feedback	B	Feedback on curriculum from stakeholders is done on

		Industrial Feedback Employer Feedback Campus Facility		Department level and the documents could be found in Departmental files, whereas feedbacks on campus facility is done on Institute level.
	aspects from stakeholders			

2. Teaching – Learning and Evaluation

S.No.	Item	Observation	Grade	Remarks
2.1	No. of students admitted in first year in the concerned department	31	B	Documents available with Admission In-charge
2.2	Number of full-time Teachers in the department	5	A	As stated in Criterion 5 of SAR. Document available at Institute level.
2.3	Number of students Enrolled in the department	172	B	As stated in Part A of SAR. Document available at Institute level.
2.4	Student - Full time teacher Ratio in the department	34.4	A	As calculated.
2.5	No. of permanent faculty with Ph.D in the department	0	C	Faculty list available at Institute level
2.6	Average teaching experience of full time teachers in years	5.1 Y	B	As per average teaching experience calculated.
2.7	Total No. of teaching days	90(approx..)	A	Semester duration is of approximately 90 days.
2.8	Preparation and adherence to Academic Calendar and Teaching plans	Academic Calendar is prepared by Academic In-charge at the beginning of new semester and Class time table comes from Departments.	A	Documents available in Institute as well as Department files.

2.9	Innovative processes adopted in Teaching and Learning	Smart class teaching: Providing for better understanding of various concepts. 2. Power point presentation: Encouraged to bring clear idea. 3. SwayamPrabha Classroom: online NPTEL Lectures 4. Selected video lectures: Encouraged to bring clear idea about another resource. 5. Digital Library Facilities – Student can access E-Books and IEEE Journals. 6. Digital teaching platform like Google Classrooms for different courses. 7. Special lecture: Providing special tutorial class for weak students. 8. Hands on training: like mini project. 9. Project based learning: Encouraged to taking up many real time project.		Documents available at Department level.
2.10	Teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources, MOODLES etc.	NPTEL Lectures		
2.11	Remedial Classes for slow learners and backlog students	Monitoring and counseling by class teacher	B	Departments make sure that remedial classes are provided to weak students.
2.12	GATE Classes for Advanced Learners	It was provided from Years (For batch)	C	The GATE Coach provided the GATE classes for advanced learners which was sponsored by TEQIP.
2.13	Mentoring System	Students of 1st year is mentored as per AICTE norms.	B	Newly admitted students to first year B.Tech program are mentored as per AICTE norms. (Annexure I)
2.14	Adequate facilities for teaching – learning, viz., classrooms, laboratories, computing equipment, etc.	Yes	B	Smart classrooms, State of art laboratories, computer labs, Language lab., etc. available in the Institute

2.15	Advanced Research Centers	No	A	Should have Advanced research centers
2.16	Teachers attending professional development programs	Yes	D	Faculties have attended FDP/PDT at various IITs/IIMs/NITs. Documents available in their personal files at Department level.
2.17	Organization of Guest Lectures, Industrial Visits, Workshops, etc.,	Yes	B	Guest lectures, Industrial visits, workshops, etc. are organized by Departments. (Ref.: Documents available in Departments).
2.18	Online Certification Programs	Yes	C	Students/ Faculties are in involved in several online certification program such as NPTEL/ SWAYAM, Coursera, etc. (Ref.: Documents available in Departments)
2.19	Student Professional Society Chapter and Association Activities	Yes	C	Students are associated with Institution Of Engineers India (IEI) whose membership was sponsored by TEQIP (Ref.: Documents available in TEQIP cell).
2.20	Students undertaking field projects / internships	Yes	C	Internship is a part of curriculum and nearly all the students do internship as vocational training. (Ref.: Documents available with Training and Placement cell)
2.21	Dissemination of PEOs, POs, PSOs, COs	Yes	A	Available in Course file at Department level.
2.22	Attainment of COs, POs, PSOs	Yes	A	Available in Course file at Department level.
2.23	Online student satisfaction survey	Yes	A	Student feedback is available at Department level.
			B	

3. Research and Innovation

S.N0.	Item	Observation	Grade	Remarks
3.1	The institution has a well-definedpolicy for promotion of research	Yes		Policy is mentioned in service rule of the Institute.
3.2	The institution provides seed money to its teachers	No	B	
3.3	Teachers recognized as researchguides from the department	No	D	
3.4	Sponsored research Projects and consultancy	No	D	Department is trying its best to secure sponsored research project
3.5	Workshops/seminars conductedon Intellectual Property Rights(IPR) and Industry-Academia Innovative practices	Yes	D	One number of Seminar conducted on Industry- Academia Innovative practices.
3.6	Research Publications	Yes	B	Faculties actively publishes articles in Research Journals.
3.7	No. of Faculty participated in conferences and symposia	5	B	Faculties participate in conferences time to time.
3.8	Books and chapters in edited volumes / books published, and papers in national/international Conference - proceedings.	0	B	Good number of research publications and book chapters have been published.
3.9	Revenue generated from Consultancy	No	B	In a process of generation of revenue. Consultancy service has been started in the Institute and is on verge to generating the revenue.
3.10	Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc.	Yes	D	Files available in Training and Placement cell.
3.11	Functional MoUs	Yes	B	Files available in Training and Placement cell.
			C	

4. Central library Facility

S.No.	Item	Observation	Grade	Remarks
4.1	Library is automated using Integrated Library Management System (ILMS)	YES	B	Central library uses KOHA as Library Management System (ILMS)
4.2	Collection of rare books, manuscripts, special reports or any other knowledge resource for library enrichment	NO	D	
4.3	Does the institution have the following: e – journals, e-ShodhSindhu, Shodhganga membership, e-books, Databases	YES	B	Central Library has facility for e-journals, e-books etc. (Ref.: Documents available in Library)
4.4	Availability of digital library with a provision for remote access on intranet	YES	B	Digital library is adjacent to Central Library with a provision for remote access on intranet.
4.5	Per day usage of library by teachers and students	YES	A	The attendance is maintained in a register in the Central Library.

5. Examination Section

S.No.	Item	Observation	Grade	Remarks
5.1	Number of days from the date of last semester-end/ year- end examination till the declaration of results	60 days (approx..)	A	
5.2	Percentage of studentcomplaints/grievances about evaluation against total number appeared in the examinations	NA	D	
5.3	Percentage of applications for revaluation leading to change in marks	0		

			B	
5.4	Result Analysis	Yes	A	The Departments analyzed the results for the session 2018-19. Remedial classes for weak students are arranged by the departments. Result Analysis report is available with the IQAC .

6. Amenities and Sports facilities

S.No.	Item	Observation	Grade	Remarks
6.1	The institution has adequate facilities for sports, games (indoor, outdoor, gymnasium, yoga centre etc.,) andcultural activities	Yes, All facilities of sports have there and cultural activities have been organizing by students.	B	Files available with Sports In-charge.
6.2	Awards/medals for outstandingperformance in sports, Yoga /culturalActivities at Institute level.	Yes it is.	B	Files available with Sports In-charge.
6.3	Number of sports, Yoga and cultural activities / competitions organized at the institution level.	Every year it is organized.	B	Files available with Sports In-charge.

7. Placements and Higher Education

S.No.	Item	Observation	Grade	Remarks
7.1	Capability enhancement and development schemes	No	D	
7.2	No of students benefited by guidance for competitive examinations and career counselling offered by the institution	0	B	
7.3	Number of placements of outgoing students	11	D	Data available in Training and Placement Cell.
7.4	Students Qualified in Competitive Examinations	0	D	

8. Alumni Engagement

S.No.	Item	Observation	Grade	Remarks
8.1	Alumni contributions	Yes	B	As a stake holder while finalizing Mission, Vision, identifying curriculum GAP, indirect attainment of Program Outcomes.
8.2	Alumni Association / Chapters meetings Conducted	Yes	B	Alumni meeting conducted.

9. Best Practices of the Department

S.No.	Item	Grade
9.1	Value addition by certification programs as well as technology training is focused through Skill Development Centre (APSSDC, IITB-RC, NPTEL, Spoken tutorial, SwayamPrabha).	B
9.2	Student participation in Innovation, Incubation and Entrepreneurship activities through CIIE.	D
9.3	Departmental initiative for placements in core domains other than central Training and Placement cell.	C
9.4	Alumni involvement in placement drive.	C
9.5	The course coordinator system has been continued.	B
9.6	Conduct of subject based Seminars and workshops have been continued. Involvement of students in various committees has been increased.	C
9.7	The practice of conducting Guest lectures, Industrial visits and Industrial training has been enhanced.	C
9.8	The functioning of Research groups to promote better quality research and publications has been strengthened.	C
9.9	More Practical orientation is supported through Mini-projects, Technical seminars.	A
9.10	Industry Internship is made mandatory for all students	A
9.11	Continuous inputs from all stakeholders like Alumni, Academicians and Industry experts are taken to improve the curriculum on regular basis.	A
9.12	Participation of students in Sports, Games at National and International level, NCC, NSS activities.	C

Suggestions for improvement:

1. More number of faculties should attend conferences/symposia (offline/online).
2. Number of students have declined who have qualified GATE exam, so some emphasize should be given on such type of exams.
3. Department should come up with consultancy work.

Signature of AAA member 1   *Sour with*   29/07/21

Name: DR. SUMANTA RAKSHIT

Designation: HOD (CE)

Address: REC, Ramgarh

Mobile No.: 6294 856238

Signature of AAA member 2   *Bmirh* 29/07/21

Name: Dr. BRAJESH KUMAR

Designation: Associate professor

Address: REC campus

Mobile No.: 9398490798

Internal Quality Assurance Cell (IQAC)

INTERNAL ACADEMIC AUDIT REPORT

ELECTRICAL ENGINEERING DEPARTMENT
RAMGARH ENGINEERING COLLEGE, RAMGARH, JHARKHAND

(ACADEMIC YEAR: - 2020-21)

Date of Audit: 29/07/21

Name and Designation of Audit Member-1: DY. SUMANTA RAKSHIT, HOD(CE)

Name and Designation of Audit Member-2: BHASKAR DAS, HOD (CSE)

1. Curricular Aspects

S.No.	Item	Observation	Grade	Remarks
1.1	Curricula developed /adopted have relevance to the local/ national /regional/global developmental needs with learning objectives including program outcomes, program specific outcomes and course outcomes of all programs Offered by all department.	The syllabus is designed by the Universities which include course objective and course outcomes.	A	The Institute is affiliated with two universities: 1st, 2nd 3rd, 4th Semester is affiliated to JUT, Ranchi and, 5th, 6th, 7th & 8th semester is affiliated to VBU, Hazaribagh.
1.2	Percentage of new courses introduced of the total number of courses across all programs	No new courses introduced.	D	
1.3	Percentage of programs in which Choice Based Credit System (CBCS) / Elective course system has been implemented	Elective course system is present in VBU old curriculum which constitute around 8% of the total credit system.	B	% of the Elective course system is calculated by referring to the syllabus of the current academic session.
1.4	Institution integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum	Yes	A	Institute has got Women Empowerment Cell which tries to empower gender equality in different aspects of life. (Ref. : Women Empowerment Cell file)

1.5	Number of Value-added courses imparting transferable and life skills offered	5 (Extra Academic Activity, Mini Project, Project, Tour & Training, Internship)	B	The value – added courses are part of University curriculum. (Ref. : University Syllabus)
1.6	Feedback on curriculum and other aspects from stakeholders	Alumni feedback Parents Feedback Industrial Feedback Employer Feedback Campus Facility	B	Feedback on curriculum from stakeholders is done on Department level and the documents could be found in Departmental files, whereas feedbacks on campus facility is done on Institute level.

2. Teaching – Learning and Evaluation

S.No.	Item	Observation	Grade	Remarks
2.1	No. of students admitted in first year in the concerned department	18	B	Documents available with Admission In-charge
2.2	Number of full-time Teachers in the department	7	A	As stated in Criterion 5 of SAR. Document available at Institute level.
2.3	Number of students Enrolled in the department	166	B	As stated in Part A of SAR. Document available at Institute level.
2.4	Student - Full time teacher Ratio in the department	23.71	A	As calculated.
2.5	No. of permanent faculty with Ph.D in the department	0	C	Faculty list available at Institute level
2.6	Average teaching experience of full time teachers in years	3.95 years	B	As per average teaching experience calculated.
2.7	Total No. of teaching days	90(approx..)	A	Semester duration is of approximately 90 days.
2.8	Preparation and adherence to Academic Calendar and Teaching plans	Academic Calendar is prepared by Academic In-charge at the beginning of new	A	Documents available in Institute as well as Department files.

		semester and Class time table comes from Departments.		
2.9	Innovative processes adopted in Teaching and Learning	Smart class teaching: Providing for better understanding of various concepts. 2. Power point presentation: Encouraged to bring clear idea. 3. Swayam Prabha Classroom: online NPTEL Lectures 4. Selected video lectures: Encouraged to bring clear idea about another resource. 5. Digital Library Facilities – Student can access E-Books and IEEE Journals. 6. Digital teaching platform like Google Classrooms for different courses. 7. Special lecture: Providing special tutorial class for weak students. 8. Hands on training: like mini project. 9. Project based learning: Encouraged to taking up many real time project.		Documents available at Department level.
2.10	Teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources, MOODLES etc.	NPTEL Lectures	B	
2.11	Remedial Classes for slow learners and backlog students	Monitoring and counseling by class	C	Departments make sure that remedial classes are provided to weak students.

		teacher		
2.12	GATE Classes for Advanced Learners	It was provided years. r 2015-19) batch)	B	The GATE Coach provided the GATE classes for advanced learners which was sponsored by TEQIP.
2.13	Mentoring System	Students of 1st year is mentored as per AICTE norms.	B	Newly admitted students to first year B.Tech program are mentored as per AICTE norms. (Annexure I)
2.14	Adequate facilities for teaching – learning, viz., classrooms, laboratories, computing equipment, etc.	Yes	A	Smart classrooms, State of art laboratories, computer labs, Language lab., etc. available in the Institute
2.15	Advanced Research Centers	No	D	Should have Advanced research centers
2.16	Teachers attending professional development programs	Yes	B	Faculties have attended FDP/PDT at various IITs/IIMs/NITs. Documents available in their personal files at Department level.
2.17	Organization of Guest Lectures, Industrial Visits, Workshops, etc.,	Yes	C	Guest lectures, Industrial visits, workshops, etc. are organized by Departments. (Ref.: Documents available in Departments).
2.18	Online Certification Programs	Yes	C	Students/ Faculties are in involved in several online certification program such as NPTEL/ SWAYAM, Coursera, etc. (Ref.: Documents available in Departments)
2.19	Student Professional Society Chapter and Association Activities	Yes	C	Students are associated with Institution Of Engineers India (IEI) whose membership was sponsored by TEQIP (Ref.: Documents available in TEQIP cell).
2.20	Students undertaking field projects / internships	Yes	A	Internship is a part of curriculum and nearly all the students do internship as vocational training. (Ref.: Documents available with Training and Placement cell)
2.21	Dissemination of PEOs, POs, PSOs, COs	Yes	A	Available in Course file at Department level.
2.22	Attainment of COs, POs, PSOs	Yes	A	Available in Course file at Department level.
2.23	Online student satisfaction survey	Yes	B	Student feedback is available at Department level.

3. Research and Innovation

S.N0.	Item	Observation	Grade	Remarks
3.1	The institution has a well-defined policy for promotion of research	Yes	B	Policy is mentioned in service rule of the Institute.
3.2	The institution provides seed money to its teachers	No	D	
3.3	Teachers recognized as research guides from the department	No	D	
3.4	Sponsored research Projects and consultancy	No	D	Department is trying its best to secure sponsored research project
3.5	Workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices	Yes	B	One number of Seminar conducted on Industry-Academia Innovative practices.
3.6	Research Publications	Yes	B	Faculties actively publishes articles in Research Journals.
3.7	No. of Faculty participated in conferences and symposia	1	B	Faculties participate in conferences time to time.
3.8	Books and chapters in edited volumes / books published, and papers in national/international Conference - proceedings.	0	B	Good number of research publications and book chapters have been published.
3.9	Revenue generated from Consultancy	No	D	In a process of generation of revenue. Consultancy service has been started in the Institute and is on verge to generating the revenue.
3.10	Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc.	Yes	B	Files available in Training and Placement cell.
3.11	Functional MoUs	Yes	C	Files available in Training and Placement cell.

4. Central library Facility

S.No.	Item	Observation	Grade	Remarks
4.1	Library is automated using Integrated Library Management System (ILMS)	YES	B	Central library uses KOHA as Library Management System (ILMS)
4.2	Collection of rare books, manuscripts, special reports or any other knowledge resource for library enrichment	NO	D	
4.3	Does the institution have the following: e – journals, e-ShodhSindhu, Shodhganga membership, e-books, Databases	YES	B	Central Library has facility for e-journals, e-books etc. (Ref.: Documents available in Library)
4.4	Availability of digital library with a provision for remote access on intranet	YES	B	Digital library is adjacent to Central Library with a provision for remote access on intranet.
4.5	Per day usage of library by teachers and students	YES	A	The attendance is maintained in a register in the Central Library.

5. Examination Section

S.No.	Item	Observation	Grade	Remarks
5.1	Number of days from the date of last semester-end/ year- end examination till the declaration of results	60 days (approx..)	A	
5.2	Percentage of student complaints/grievances about evaluation against total number appeared in the examinations	NA	D	
5.3	Percentage of applications for revaluation leading to change in marks	0	B	

S.No.	Item	Observation	Grade	Remarks
5.4	Result Analysis	Yes	A	The Departments analyzed the results for the session 2018-19. Remedial classes for weak students are arranged by the departments. Result Analysis report is available with the IQAC.

6. Amenities and Sports facilities

S.No.	Item	Observation	Grade	Remarks
6.1	The institution has adequate facilities for sports, games (indoor, outdoor, gymnasium, yoga centre etc.,) and cultural activities	Yes, All facilities of sports have there and cultural activities have been organizing by students.	B	Files available with Sports In-charge.
6.2	Awards/medals for outstanding performance in sports, Yoga /cultural Activities at Institute level.	Yes it is.	B	Files available with Sports In-charge.
6.3	Number of sports, Yoga and cultural activities / competitions organized at the institution level.	Every year it is organized.	B	Files available with Sports In-charge.

7. Placements and Higher Education

S.No.	Item	Observation	Grade	Remarks
7.1	Capability enhancement and development schemes	Yes	B	Employability Skill classes sponsored through TEQIP.
7.2	No of students benefited by guidance for competitive examinations and career counselling offered by the institution	25	B	GATE Coaching sponsored by TEQIP.
7.3	Number of placements of outgoing students	15	D	Data available in Training and Placement Cell.
7.4	Students Qualified in Competitive Examinations	3	D	Through GATE coaching provided by the Institute 08 number of students got qualified.

8. Alumni Engagement

S.No.	Item	Observation	Grade	Remarks
8.1	Alumni contributions	Yes	B	As a stake holder while finalizing Mission, Vision, identifying curriculum GAP, indirect attainment of Program Outcomes.
8.2	Alumni Association / Chapters meetings Conducted	Yes	B	Alumni meeting conducted.

9. Best Practices of the Department

S.No.	Item	Grade
9.1	Value addition by certification programs as well as technology training is focused through Skill Development Centre (APSSDC, IITB-RC, NPTEL, Spoken tutorial, Swayam Prabha).	B
9.2	Student participation in Innovation, Incubation and Entrepreneurship activities through CIIE.	D
9.3	Departmental initiative for placements in core domains other than central Training and Placement cell.	C
9.4	Alumni involvement in placement drive.	C
9.5	The course coordinator system has been continued.	B
9.6	Conduct of subject based Seminars and workshops have been continued. Involvement of students in various committees has been increased.	C
9.7	The practice of conducting Guest lectures, Industrial visits and Industrial training has been enhanced.	C
9.8	The functioning of Research groups to promote better quality research and publications has been strengthened.	C
9.9	More Practical orientation is supported through Mini-projects, Technical seminars.	A
9.10	Industry Internship is made mandatory for all students	A
9.11	Continuous inputs from all stakeholders like Alumni, Academicians and Industry experts are taken to improve the curriculum on regular basis.	A
9.12	Participation of students in Sports, Games at National and International level, NCC, NSS activities.	C

Suggestions for improvement:

1. More number of faculties should attend conferences/symposia (offline/online).
2. Number of students have declined who have qualified GATE exam, so some emphasize should be given on such type of exams.
3. Department should come up with consultancy work.

Signature of AAA member 1 _(signature)_ 29/07/21

Name: DR. SUMANTA RAKSHIT

Designation: HOD (CE)

Address: REC, Ramgarh

Mobile No.: 6294856238

Signature of AAA member 2 _(signature)_ 29/7/204

Name: BHASKAR DAS

Designation: HOD (CSE)

Address: REC, Ramgarh.

Mobile No.: 9749275190