



YEARLY STATUS REPORT - 2022-2023

Part A	
Data of the Institution	
1.Name of the Institution	G H RAISONI COLLEGE OF ENGINEERING, NAGPUR
• Name of the Head of the institution	Dr. Sachin Untawale
• Designation	Director
• Does the institution function from its own campus?	Yes
• Phone No. of the Principal	09604787184
• Alternate phone No.	08806226666
• Mobile No. (Principal)	08806226666
• Registered e-mail ID (Principal)	principal.ghrce@raisoni.net
• Address	CRPF Gate No. 3, Digdoh Hill, Hingna Road, Nagpur-440016.
• City/Town	Nagpur
• State/UT	Maharashtra
• Pin Code	440016
2.Institutional status	
• Autonomous Status (Provide the date of conferment of Autonomy)	04/05/2010
• Type of Institution	Co-education
• Location	Urban

• Financial Status	Self-financing
• Name of the IQAC Co-ordinator/Director	Dr. Sonali Joshi
• Phone No.	9096052096
• Mobile No:	9096052096
• IQAC e-mail ID	iqac@ghrce.raisoni.net
3. Website address (Web link of the AQAR (Previous Academic Year))	https://ghrce.raisoni.net/interanl-quality-assurance-cell
4. Was the Academic Calendar prepared for that year?	Yes
• if yes, whether it is uploaded in the Institutional website Web link:	https://ghrce.raisoni.net/academics

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 3	A++	3.55	2023	02/06/2023	01/06/2030
Cycle 2	A+	3.51	2017	12/09/2017	11/09/2022
Cycle 1	A	3.02	2012	05/07/2012	04/07/2017

6. Date of Establishment of IQAC**27/01/2012****7. Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?**

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
Institution	Smart Engineering Solutions to Smart Cities	AICTE	16/11/2022	300000
Institution	Latex and Matlab 2023	Atomic Minerals Directorate for	02/12/2022	25000

		Exploration and Research		
Institution	Garbage Picking Machine	Ministry of Education (MoE)	04/04/2022	900000
Institution	Institutions Innovation Council (IIC)	AICTE	01/08/2022	280000
Institution	Internet of Things	AICTE	05/09/2022	260000
Institution	Design and Development of Banana Fiber Extractor Machine	IIT Delhi-UBA	08/10/2022	50000
Institution	Design and Development of Cocopeat and Biomass making machine	IIT Delhi-UBA	08/10/2022	50000
Institution	Python Programming in Astronomy, Astrophysics & Cosmology	Inter-University Centre for Astronomy and Astrophysics (IUCAA)	06/02/2023	169000
Institution	Design and Fabrication of Thermoacoustic Refrigeration system	ISHRAE Student project Grant -Under Graduate	03/01/2023	45000

8. Provide details regarding the composition of the IQAC:

- Upload the latest notification regarding the composition of the IQAC by the HEI

[View File](#)

9.No. of IQAC meetings held during the year	4
<ul style="list-style-type: none"> Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website? 	Yes
<ul style="list-style-type: none"> If No, please upload the minutes of the meeting(s) and Action Taken Report 	No File Uploaded
10.Did IQAC receive funding from any funding agency to support its activities during the year?	No
<ul style="list-style-type: none"> If yes, mention the amount 	
11.Significant contributions made by IQAC during the current year (maximum five bullets)	
<p>1) NAAC Accredited with A++ Grade in Third Cycle (3.55 score on scale of 4). 2) GHRCE ranked between 151-200 in Engineering Discipline and 51-100 in Innovation Category by NIRF 2023, Ministry of Education, Govt. of India. 3) GHRCE received the Institution of Engineers (I) Engineering Education Excellence Award at the hands of Dr. K. Ponmudy, Hon'ble Minister for Higher Education, Govt. of Tamilnadu at Chennai. 4) GHRCE received an Empowered Autonomous College Status from Rashtrasant Tukadoji Maharaj Nagpur University. 5) GHRCE received Paryavaran Sathi Award on World Environment Day Celebration at the Institution of Engineers.</p>	
12.Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:	
Plan of Action	Achievements/Outcomes
NAAC Accreditation	NAAC Accredited with A++ Grade in Third Cycle (3.55 score on scale of 4).
NIRF Ranking	GHRCE ranked between 151-200 in Engineering Discipline and 51-100 in Innovation Category by NIRF 2023, Ministry of Education, Govt. of India.
Academic Audit-Internal	Internal audits (Four audit in each semester) were done by

	cross departmental faculties and performances of Teachers are improved.
Academic Audit-External	External audits were conducted for Institutes and Departments by NITs, IIITs, LITs and IIM experts.
Participation of students in various activities	Yash Gulhane received "Krida Bhushan" award with the hands of The Great Khali, Mr. Nitin Gadkari & Mr. Devendra Fadnavis at the grand ceremony of Khasdar Krida Mahotsav. Ashwin Navange, Bhavesh Balani with their team won 2nd price in "Appathon" with the cash prize of Rs. 8000/-. Mr. Harshad Nichat, Mr. Dipam Jadhav & Ms. Sanskruti Milmile won first prize in Short Film Making Competition 'CINESTORY 2023' of Rs. 3000/-. Nihal Sakharkar, Harish Rathod, Shivam Lingawar, Aniket Somkuwar, Minal Katre Won First Prize of Rs 50,000/- at Innovation 'R' for "Agrobot". Ms. Dhammashree Tamgade 8th Sem ETRX and Mr Bhanu Nagpure 4th Sem CSE won runner up in SRISHTI 2023. BETiC interns Mr Piyush Harde and Mr. Harsh Shahane 8 Sem. ETRX won 1st prize in poster competition in ENNOVATE 2023.
13. Was the AQAR placed before the statutory body?	Yes
<ul style="list-style-type: none"> Name of the statutory body 	
Name of the statutory body	Date of meeting(s)
Board of Governance	27/12/2023

14. Was the institutional data submitted to AISHE ?	Yes
<ul style="list-style-type: none"> • Year 	
Year	Date of Submission
2022-23	26/02/2024

15. Multidisciplinary / interdisciplinary

The institute offers multidisciplinary programmes like Engineering & Technology and Management at UG, PG and Ph. D. levels. Institute has also planned to start the affiliating university approved certificate, diploma and advanced diploma courses in various specializations. The institute's vision along with action plans navigates the dedication and relevance of the curriculum for transforming the institute as multidisciplinary institution imparting holistic education.

While framing the curriculum, the model curriculum of AICTE and the guidelines UGC, NEP 2020 are considered. Schemes of all the programmes have multidisciplinary courses such as Mathematics related courses, data structures and algorithms, python programming, programming for problem solving, optimization techniques, open electives, internships, projects.

Since the inception of autonomy about decade back, the institution has integrated the science and humanities related courses. Basic sciences courses, science electives, environmental science and related courses, communication skills and advanced communication skills, universal human values, carrier development practise, etc. are part of curriculum.

Flexibility in course offerings is backbone of exploring the autonomous status by the institution. The flexible offerings basically start with inclusion of various types of elective courses in the curriculum. Since 2015 institute has started offering of courses under choice based credit courses. The CBCS offering has led to horizontal mobility of the students wherein student can take the courses of other departments/ programmes to accomplish multidisciplinary course certifications and minor specialization. The other forms of flexible curricula offering are institute facilitates branch transfer at second year level, institute allows and rather encourages the multidisciplinary project and internship

teams / groups. One of the initiative which leads for product development through project is institute level multidisciplinary Capstone project involving students and faculty mentors of all disciplines. The curriculum has courses focused incubation and entrepreneurship and courses on crosscutting issues like Professional Ethics, Gender, Human Values, Environment and Sustainability. The institute has Technology incubation centre which provides ecosystem for multidisciplinary environment. In addition to the above courses i.e. apart from curriculum, the institute also addresses the crosscutting issues by encouraging the participations of students in respective activities like Swachhata Pakhwada, Unnat Bharat, Cleanliness Drive, national day celebrations etc. Institute has formulated regulations for CBCS and are executed through well documented standard operating practices.

With NEP -2020, institute has started planning for multiple entry-exit. One of the initiative is credit transfer scheme with MoU signatory institutes with 100+ beneficiaries. The students can enter in the program and can earn requisite number of credits to get certificate, diploma and advanced diploma. Institute has formulated common curriculum across institutions of host Group, wherein the students from across the group institutions can enter at any point in the program and can exit as per the wish. Institute has further planned to extend this model with other institutions and is in process of framing standard operating procedure.

Few amongst many good practises followed by the institute includes CBCS offering, CTS, multidisciplinary curricula , multidisciplinary project and internship groups and facility of minor specialization and certifications.

16.Academic bank of credits (ABC):

Academic Bank of Credits (ABC) aims to digitally store the academic credits earned by students from Higher Education Institutes registered with ABC, for awarding degrees, diploma, and certificates taking into account credits earned by students. ABC will also help students to choose their own learning path to attain a degree, diploma, or certificate as it works on the principle of multiple entry-multiple exits at any level of learning.

G H Raison College of Engineering is registered with the NAD-Digilocker to maintain a digital repository of credits earned by students by uploading the final semester mark-sheets of the students. Around 1266 UG students and 140 PG students are enrolled in NAD.

Institute is having Credit Transfer Scheme (CTS) in which students are permitted to undergo one semester in IITs or Institute of repute. For CTS Scheme our institute has signed MoUs with National &, International Institutions and reputed Industries. Credits earned by students in other institutes are added in Academic Bank of Credits.

As a step towards ABC, institute is implementing the Choice Based Credit System (CBCS). In CBCS, student is having the flexibility of learning by having the choice to earn the credits by selecting proper courses. In CBCS more number of inter-disciplinary electives as well as open electives are available for the students. Students can select the best courses or combination of courses to suit their aptitude and quest for gaining the knowledge. CBCS also permits our students to learn at their own pace, learn additional courses and acquire more than the required credits. The CBCS also emphasizes on group discussions, assignments, class activities, and internal examinations thus creating a valuable education environment.

Under NPTEL student chapter, students are allowed to opt for 20 % of the NPTEL/ SWAYAM courses by properly mapping the course contents with the curriculum. Project based learning is implemented for the students for the ease of understanding. Industry electives have been started for students to make them aware about the latest trends and technology practiced in the Industry. A few of the courses are taught by foreign University faculty member.

17.Skill development:

G H Raisonni College of Engineering, Nagpur being as autonomous institute is focusing on skill development for students as well as faculty members. Skill program are designed to improve learning skills and help them to achieve their academic goals and acquaint them with latest technologies used in the industry. The courses are aligned with National Skills Qualifications Framework (NSQF) and are embedded in the curriculum. These courses are delivered at various levels starting from the first year in the form of Soft skills training, Communication skills and foreign languages. Interdisciplinary subjects, open electives are a part of the curriculum that also covers skill development.

Major relevant technical skill that were offered to students during 2021-22 academic session were IoT and Computer Networking & its Applications by Mr. Swapnil Challani, VS Informatics Pvt Ltd, Nagpur

where 120 students were benefitted, Front End Chip Design by Mr. Prasad Vaidya, Binalog Electronic Design, Sangli which was underwent by 180 students, Advanced Java by Mr. Sagar Pawar, Tata Technologies Pune where 180 students were skilled, Internet of Things using Raspberry Pi and Python by Mr. Atul Ghumade, Certified LabVIEW Developer, TabXo Labs was undertaken by 120 students, Introduction to VISSIM /Mx Road by Mr. Mahindra Deshmukh, Transportation Engineer, Global Traffic Solution, Pune for 120 students, Industry 4.0 by Mr. Amol Pusadkar, Special Process Manager, TAL Nagpur, where 120 students were trained.

During 2022-23, the following skill trainings were conducted Salesforce by Mr. Yogesh Watile, Founder and Director, Quintessential Informatics Systems Pvt. Ltd. Nagpur for 180 students, TIBCO Technology by Mr. Rakesh, Team Lead, where 180 student underwent the skill training, Advanced Java by Mr. Sarang Gurve, Web Developer, IT Networks Pvt. Ltd, Nagpur for 120 students, HTML by Mr. Ankit Kshirsagar, AnkHub Technology Services Pvt Ltd Nagpur for 60 students, Mr. Harish Zambhani, HIXAA Technologies Pvt. Ltd, Nagpur for 60 students, Industry 4.0 by Mr. Amol Pusadkar, Special Process Manager, TAL Nagpur for 60 students, LabVIEW by Mr. Atul Ghumade, HIXAA Technologies Pvt. Ltd, Nagpur for 60 students.

The institute is inculcating Value-based education in the students though credit based courses like Universal Human Values 2: Understanding Harmony. Activities like annual gathering & forum activities includes drama, singing and cultural program, Yoga and patriotic song competitions etc.

There are Hobby clubs for students like Photography, Entrepreneurship, Product/Model Design, Renewable Sources, Movie Review, Brain(Biology Research and Innovation Network), Baking (Food), Web Design, Music, Art & Craft, Fitness, Astronomy Club, Economic Society and Sports that enhances various skills in the students. A special 15 Days Students Induction Program is conducted regularly for skill based trainings. The institute also conducts faculty skill development programs in almost all domains of engineering and technology.

The institution is inducting various efforts for skill development through mandatory enrolment of each and every student for minimum one skill course. Some of the skill based courses are a part of curriculum. Almost all skill development program are imparted by relevant industry experts.

18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture,

using online course)

Though, the basic mode of teaching is English, many of the faculties are well-versed with the local vernacular. Faculties uses Marathi and Hindi language to explain technical concept for better understanding of students. Faculties are confident about being able to teach bilingually.

Sanskrit Language is provided to students as one of the open elective under IKS. The linkages between education and culture is carried out through various online platforms such as SWAYAM, NPTEL and is extended to provide teachers & students with a structured, user-friendly monitoring progress of learners. As AICTE is in the process of approving the technical courses in regional languages, our institute will definitely take initiative to offer these courses in regional languages.

The faculty members of the institute have taken initiative for promoting technical courses in regional language like Marathi. A Certificate of Appreciation for translation of the courses Analog Circuits, Computational Electromagnetics and Basic electric circuits have been provided to Prof. Pravin Jaronde, a faculty of our institute by IIT Madras.

The institute also has various Hobby clubs that organises programmes to transfer ancient traditional knowledge to students. Under the departmental forums and central committee, various cultural events like folk dance competition, Patriotic song competition, Garba programme, Makar Sankrant festival etc. are organized. The institute also celebrates Chhatrapati Shivaji Maharaj Jayanti and Shiv Rajyabhishek Din to create an awareness about work carried out by great emperor of Maharashtra in students.

The institute is mapped with C.V. Raman Global University (CVRGU), Bhubaneswar, Orissa under Ek Bharat Shrestha Bharat Campaign of AICTE, Government of India. In this campaign, cuisine, culture, dance, folk songs and language (Marathi & Odia) learning is shared between paired states. Under the campaign, celebration of Maharashtra Divas, Odisha Divas (Utkal Divas) are carried out since last three years. In addition, the institute is planning for student exchange programme. In this programme, 50 students are planned to mutually visit both institutes to learn and nourish culture of both the states. To create an awareness regarding the local languages, the institute website regularly display quotes in these languages. The institute also celebrates International Mother Language day and Matrubhasha Divas under Ek Bharat Shreshtha Bharat club.

The institute has organized various workshops for the awareness about NEP 2020 for the faculty members and students of the institute. The institute is also offering various elective and open elective courses which are offered through online portals.

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

The institute has implemented Outcome based Education since 2013. Curriculum has been evolved based on inputs received during accreditation process by National Board of Accreditation, New Delhi. The Curriculum has been transformed from Teaching to learning, Skills to thinking, Content to process, teacher instruction to student demonstration through various meetings with members of focused group, Board of Studies, Departmental Industry Advisory Board and Academic Council. Institute has implemented Six Month Industry Internship. Project has been included in each semester to enhance problem solving abilities.

Curriculum has been mapped with Programme Outcomes and Program Specific Outcomes. Skill enhancement training of modern software engineering Tools is imparted. Compulsory Presentation by each student to enhance communication skills. Societal Problems are assigned to students to understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge and need for sustainable development. Visits not only to industry but also to old age homes inculcates current trends in industry with value and morale amongst the students.

Social Internship is a part of the curriculum and is mandatory, wherein, students solve root level problems faced by the society. Inclusion of Innovation and Entrepreneurial courses helps students to engage themselves in lifelong learning. Institute imparts skill enhancement programmes to improve employability. Institutes uses more than one method of teaching, learning and assessment to evaluate different learning outcomes.

Faculty members are using Innovative and Effective classroom teaching methodologies which enhances capturing of outcome based education. Regular seminars are conducted on practical topics to enhance qualitative understanding. Different kinds of assignments related to design, case studies are used for evaluating problem solving abilities. Group learning is encouraged to evaluate the team working. For laboratory courses and research courses, students are given specific problems to be solved by applying different kinds of solution.

Peer teaching is offered to senior students which develops their teaching abilities. Faculties are deputed for subject domain training in the Institute of National importance and industry. Senior functionaries are deputed for Management capacity development programmes.

Institute has implemented Choice based Credit System (CBCS). Institute has Credit Transfer Scheme (CTS) with institutes like VJTI Mumbai, IIIT Gandhinagar, IIIT Nagpur & COE Pune and also with reputed industries. Institute has adopted Continuous Evaluation System for assessing effectively outcome based education. Institutes evaluates its academic and administrative processes through audit conducted internally and externally at frequent intervals. Institute provides use of digital platforms like students portal, MIS. Institute is having IIT faculty members on Board of Studies, Academic Council which helps in bringing the curriculum at par with national institutes. Institutes provides seed money for research projects. 15 % of the syllabus in curriculum is based on recent topics or trends related to course.

20.Distance education/online education:

The infrastructure of the institute was strengthened through purchase of high end facilities which included enhanced Wi-Fi, upgraded software and purchase of WebEx licenses etc., which led to effective conduction of online education.

Our institution encourages and supports developing high-quality online courses suitably integrated in the curricula and imparted through online mode. Institution is ready to offer Certificate/ Diploma courses in emerging areas and vocational courses through ODL in Artificial Intelligence, 3D Printing, Flexible Manufacturing System, Python, Cyber Security, Ethical Hacking, Internet of things, Wireless communication, Auto CAD, Civil 3D, Data Analyst, PCB design, etc.

The faculty members of our institution are using various ICT based tools for teaching learning process. Total 36 classrooms are ICT enabled, along with seminar halls and auditorium. Institute follows unique methods of teaching and learning practices which are learner centric and Innovative in nature. The prominent ICT tools regularly used by our faculty include link to the video lectures, Virtual lab practical, MIS for teaching plan upload and attendance, MIS App for students, Moodle for conducting TAE and CAE also teacher can upload the material on Moodle, Google class room for publishing material, conduction TAE and CAE, Audio visual classroom, Excel Sheet to solve

simulation problems, Google docs, Google drive, and Google site for dissemination of the course materials, Google Forms for surveys and quiz, IEEE-explore access, MOOCS online courses, WebEx, NPTEL Credit Transfer & extra learning, Software for checking the plagiarism, etc.

Institute has a NPTEL local chapter under which the institute offers NPTEL courses that students need to complete through online mode. Open elective courses are mapped through NPTEL. For final year students they can take elective courses through NPTEL while being deputed for internship.

Faculty members are also continuously updating their knowledge by NPTEL/Swayam certifications. For Teachers Assessment Examination (TAE) parameter of the respective courses students register and complete the Coursera and Udemy courses. All the contents of Swayam and Swayam Prabha are provided by NPTEL, IITs, UGC and IGNOU. The links are available in the campus via LAN and WiFi networks.

Extended Profile

1.Programme

1.1 22

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1 4899

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2 1213

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3

4913

Number of students who appeared for the examinations conducted by the institution during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1

1484

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2

280

Number of full-time teachers during the year:

Extended Profile

1. Programme

1.1 22

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2. Student

2.1 4899

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2 1213

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3 4913

Number of students who appeared for the examinations conducted by the institution during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3. Academic

3.1 1484

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2 280

Number of full-time teachers during the year:		
File Description	Documents	
Institutional Data in Prescribed Format	View File	
3.3	280	
Number of sanctioned posts for the year:		
4.Institution		
4.1	670	
Number of seats earmarked for reserved categories as per GOI/State Government during the year:		
4.2	60	
Total number of Classrooms and Seminar halls		
4.3	1505	
Total number of computers on campus for academic purposes		
4.4	2119.77	
Total expenditure, excluding salary, during the year (INR in Lakhs):		

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

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

Design, development and implementation of program curriculum is a continuous process. The institute's vision and mission along with action plans navigates the dedication and relevance of the curriculum towards the needs of society at local, regional and national level. The curriculum development thus has relevance to the society needs with systematically defined and disseminated PSOs/POs and COs leading to OBE. The institute has SoP which leads to holistic development of students as responsible citizens by imparting quality education. Each department has a BoS which deals

with the curriculum. The BoS conducts the need analysis that comprises

- Demand for the program (Emerging Technology / Thrust Areas / Foreseen Technology)
- Relevance to the local needs and Skill based Education with Entrepreneurship opportunities
- Model Curriculum provided by AICTE and institutes of national repute.
- Brainstorming sessions with Industry Experts and stakeholders.

Based on Vision and Mission of the institution and that of the department, Graduate Attributes (POs) and stakeholder's inputs, the Program Educational Objectives (PEOs), Program Specific Outcomes (PSOs) are framed for particular program. The curriculum designed has sufficient flexibility in choosing the departmental and/or interdisciplinary courses / courses offered by industry / post graduate courses for UG students etc. right from the first year.

File Description	Documents
Upload additional information, if any	View File
Link for additional information	https://docs.google.com/document/d/1FehelqUhguZl6m-aSlHXtc-h8XLApE-3/edit?usp=sharing&oid=117960241223374502004&rtpof=true&sd=true

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

27

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	View File

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

1065

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	No File Uploaded
Any additional information	No File Uploaded

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

463

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

27

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

Guidelines & model curriculum of AICTE, UGC and NEP are considered & due weightage is given to cross cutting issues in curriculum by integrating related contents in the teaching learning process. Professional Ethics: Ethics & Professional Competencies, Entrepreneurship Development, Cyber Ethics and Moral Responsibility, Technical Report Writing, Aptitude-I, CRT, Industry 4.0, Communication Skills, IPR. Practices of professional societies. Institute has plagiarism policy wherein the plagiarism check of thesis / publications are done. Gender: Liberal Arts, Hobby Clubs, Projects and Internships. Institute has constituted committees like Women cell, sexual harassment for gender discrimination prevention code. Human Values: UHV, Applied Life Skills for Progressive Excellence, Content Designing and Media Fundamentals, Cyber Ethics and Moral Responsibility, Theatrics, Social Internship. Institute has active NSS cell which undertakes social services related activities imbibing human values. Institute undertakes activities like Traffic Awareness, Joy of Giving, Village Adoption and celebrates days like National voters' day, National girl's day. Environment and Sustainability: Waste Management, Environmental Chemistry and Engineering, Energy Audit, Soil Mechanics, Irrigation and Drainage Engineering, Energy Conversion, Nonconventional Energy Sources, Solar Energy and Management, Hydrology & Water resource Engineering, Disaster Preparedness, Earthquake Resistant and Retaining Structures, Waste Water Engineering, Green Building, Air Pollution, Groundwater Management, Battery Technology.

In addition to the above courses institute also addresses the crosscutting issues by encouraging the participations of students in activities like Swachhata Pakhwada, Unnat Bharat, Cleanliness Drive, national day celebrations etc.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	No File Uploaded

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

119

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	No File Uploaded

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

9432

File Description	Documents
List of students enrolled	View File
Any additional information	View File

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

1181

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni A. All 4 of the above

File Description	Documents
Provide the URL for stakeholders' feedback report	https://ghrce.raisoni.net/academics
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	No File Uploaded

1.4.2 - The feedback system of the Institution comprises the following

A. Feedback collected, analysed and action taken made available on the website

File Description	Documents
Provide URL for stakeholders' feedback report	https://ghrce.raisoni.net/academics
Any additional information	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

1280

File Description	Documents
Any additional information	No File Uploaded
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

466

File Description	Documents
Any additional information	No File Uploaded
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

The institute has adopted a choice-based credit system to accommodate diverse student needs, assessing learning levels via continuous evaluations, ESE, and informal interactions. Students with CGPA above 8.25 are deemed fast learners, advised accordingly, while those below 6.75 are guided to register suitable credits for self-paced learning.

Several schemes are available for fast learners, including the Credit Transfer Scheme, a student exchange program with institutions like IIT, Gandhinagar, IIIT Nagpur, COE Pune, VJTI Mumbai and the Peer Teaching Scheme, where students of higher semesters teach to lower semesters. Fast learners can also take additional courses and earn a degree with Honor or Minor specialization by earning requisite credits. Flexible credit limits exist for different CGPA slabs and pending courses. Toppers are rewarded with cash prizes, medals, and awards, such as Topper award, Best student and Best PG thesis awards, to encourage overall development of students.

The institute offers various schemes to support slow learners and academically weaker students. These include remedial teaching, grade improvement schemes, vacation examinations, summer terms, teacher guardian/faculty advisor schemes, special tracks for slow learners under CBCS, and makeup classes. Remedial teaching provides one additional hour of coaching, while grade improvement schemes allow students to improve their CGPA. Students who cannot secure pass grades in ESE can register for vacation ESE. Summer terms allow students who got FF grades in ESE. Faculty members are also allocated to group students as teacher guardian/faculty advisors.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ghrce.raisoni.net/academics

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
18/08/2022	4573	280

File Description	Documents
Upload any additional information	View File

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:

The institute's teaching and learning processes focus on student-centric lifelong learning methods. The program curriculum includes experiential and participative learning, problem-solving methodologies, and activity-based learning. It combines theory, tutorial, practical, project, and internship categories.

Students participate in tutorial sessions where they learn active participative problem-solving methodologies. Laboratory courses provide experiential learning through hands-on experimental/simulation setups, with small projects carried out based on the course content. Students attend trainings, demonstrations, and installations sessions of experimental setups/tools procured in various laboratories.

Students undergo project and semester internships, where they undertake and execute projects from idea to implementation, testing, demonstrating, and installations. Semester internships make students acquainted with industry culture and latest industrial technology setups, making them technically competent graduates with a background in experimental learning and experience working in industry culture.

The institute also organizes workshops and skill-training programs for all students, including a mandatory semester internship program. To enhance experiential learning experiences, the institute partners with IIT Madras NPTEL, uses NPTEL-MOOCs like SWAYAM, Coursera, and Virtual Laboratories, and offers industry-led elective courses, partial delivery of curriculum by experts of IITs, visits to industries and research organizations, laboratory setups, skill development courses, etc.

The institute has undergone NABL accreditation, leading to consultancy projects and work. Students can also participate in project competitions hosted by the institute, which hosts national level competitions with world leaders in academic and research activities. The institute has numerous credentials, including NIRF rankings, ARIIA ranking, and Platinum ranking by ACITE-CII survey.

File Description	Documents
Upload any additional information	View File
Link for additional Information	Nil

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and

learning

The institute's legacy includes a robust integration of ICT tools in teaching and learning since gaining autonomy. The quality of this experience depends heavily on teachers' readiness to embrace technological advancements. To enhance faculty proficiency, the institute has developed ICT facilities and provided training. The objective is not just to promote ICT tools but to significantly improve teaching and learning effectiveness. Faculty employ various approaches, fostering individual and collaborative learning, encouraging interactive participation, and instilling a sense of responsibility in learners. Learning Management Systems (LMSs) and other e-resources play a vital role in this process.

Initiatives to enhance Teaching Learning Processes (TLP) include student-centric methodologies, teacher training programs, and the integration of diverse ICT tools like NPTEL, SWAYAM, and MOOCs. The campus is equipped with Wi-Fi. Additional tools include virtual laboratories; ISRO e-learning courses; ASME, ASCE, Elsevier, JGate MBA and Engineering access; The institute employs platforms like Moodle, WEBEX, and Google Suite for online teaching, evaluation, and collaboration. Other measures encompass plagiarism checks, hybrid classes, etc. Online training, Superset placement platforms, and internships further enrich the learning experience. Overall, the institute prioritizes leveraging ICT to optimize teaching and learning outcomes.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://rgicdn.s3.ap-south-1.amazonaws.com/ghrcenagpur/ssr/pdf/2.3.2.pdf
Upload any additional information	View File

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

280

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

The academic year comprises odd and even terms, each with 90 teaching days, and a summer term. A draft calendar is formulated based on the previous year's calendar and input from department heads, deans, the CoE, and the Registrar. This draft is circulated for faculty member's suggestions before final approval by the director and dissemination to students and faculty via the institute's website.

The calendar outlines activities such as pre-session preparation, timetable finalization, counseling, course registrations, assessments, and academic audits. Monitoring of the teaching plan's implementation occurs monthly, with attention to syllabi coverage and student performance. Defaulting students are identified, and compliance is ensured through action taken reports (ATRs).

Teaching plans are developed by course teachers in alignment with the academic calendar, considering available time, modules, assessments, and objectives. Laboratory sessions and project courses are also planned, with details communicated to students and posted online. Adherence to the academic calendar and teaching plans is overseen by the Dean IQAC through internal and external audits. Senior faculty members conduct audits to verify planned activities, lectures, and syllabus coverage, with remedial actions implemented by department heads based on audit findings.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

280

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	No File Uploaded

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

66

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	No File Uploaded

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

5674

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	No File Uploaded

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

24.85

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	No File Uploaded

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

165

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

IT has a very vital role in ESE and CIA processes and procedures. The Office of Controller of Examinations has sections like Confidential, Examination and Spot Valuation etc under the umbrella of Management Information System (MIS). The MIS is the backbone of IT integration in examination reforms. IT infrastructure of the Office of Controller of Examination includes high end printing and reprographic facilities, High end standalone and intranet enabled systems etc. IT integration in examinations has also brought convenience and ease of operations. Standard Operating Process for online mode examinations are formulated. Google Classrooms, Google Colab, Google Forms and Moodle etc are used for conducting CIA and ESE. The confidentiality in the examination and evaluation processes is well ensured through checks and balances at various levels by providing level wise rights and privileges to various authorities and involved human resource like CoE, MIS in charge, SPOT in charge, ESE in charge, HoDs, Paper Setter, Valuer, Scrutinizer, Internal and External Examiners. The hierarchical system in synchronization with examination committee lead by head of the institution has brought improvements in the form of purity of examinations and has dropped down the cases of grievances and also cases of unfair means.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://ghrce.raisoni.net/examination-cell

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

The Institute has implemented Outcome Based Education (OBE). OBE based parameters (PEOs, POs & PSOs, COs) are defined, drafted, brainstormed and approved in the respective committees like focus group, industry advisory board and statutory bodies like BoS and AC. The course outcomes are defined considering the base of revised bloom's taxonomy (remember, understand, apply, analysis, evaluate create). Interlinking (Correlation) amongst vision / mission, Program Educational Objectives (PEOs), Program Specific Outcomes (PSOs), Program Outcomes (POs), program specific criteria of internationally known professional societies such as ASME, ASCE and IEEE and Course Outcomes (COs) is done by way of level wise mapping. Mapping leads to computation of attainment levels which further account for investigation of gap analysis and corrective actions thereof. Faculty explains the Course Outcomes expected from the students in the orientation classes / beginning lecture in every semester. Mapping of COs with questions asked in various examinations are indicated. Computation of attainment is done by direct and indirect methods through various assessment tools and weightages are defined for respective tools and methods.

PEOs and POs are displayed on

- College website (www.ghrce.raisoni.net)
- Practical record
- Pocket calendar
- Conference hall
- Auditorium
- Classroom
- Handbook
- Seminar room
- Wall paper on Laptop/Desktop PC
- HoD cabin /office
- Laboratories

PEOs and POs are disseminated in

- Orientation program for students
- Orientation program for faculties
- Every event conducted by college or department (Like professional society, parents meet, alumni meet, co curricular/extracurricular activities)

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	https://ghrce.raisoni.net/academics

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

A. Attainment of COs:

Assessment Methods / Tools / Processes: Conventional methods (On / Off line mode) (CIE and SEE), Project/ internship Evaluation. Workshop based / Activity based / Hackathon based / Skill course. The program defines the target level depending upon the history for last two years. Question papers are included with the mapping of COs with questions. Depending upon the target comparison with current year performance of students, tool weightage, the level of attainment for particular assessment tool is decided. Then addition of tool wise contribution is done to calculate course outcome attainment.

Overall CO attainment: Attainment by CIE Tools * 0.4+ Attainment by ESE Tools * 0.6

B. Attainment of POs & PSOs:

Direct method involves the attainment values of COs while indirect method involves the computation and analysis of surveys. Direct Method & Assessment Tools: The attainment level of course outcomes are put in PAM. Statistical method is applied for computation. Indirect Method and Assessment Tools: Executed for PO-PSO mapped questionnaire. The rated response is found out to get the percentage level of PO and PSO attainment.

Overall Attainment of POs and PSOs: 0.6* Direct Attainment + 0.4 *

Indirect Attainment.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://ghrce.raisoni.net/academics

2.6.3 - Pass Percentage of students**2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution**

2282

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	No File Uploaded
Paste link for the annual report	https://ghrce.raisoni.net/internal-quality-assurance-cell

2.7 - Student Satisfaction Survey**2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink**

https://drive.google.com/file/d/1ObDxHaSk1Sm5EZ_frptbkx985cY9izti/view?usp=sharing

RESEARCH, INNOVATIONS AND EXTENSION**3.1 - Promotion of Research and Facilities**

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

G H Raison college of Engineering is well Known for its Promotion of Research Eco-system and on the basis of repeatedly adding the research facilities like Tableau software, Ansys, MIMICS, SPSS, AR/VR etc and support like having Establishment of Dedicated R&D Cell as per latest UGC Norms, Qualified and Experience faculties, Satellite Center, Laboratories with research oriented facilities,

Library books, multimedia, Conference Proceedings, Plagiarism checking by Turnitin software. College is having well defined policy for Promotion of Research to participate in conferences, workshops seed money for taking up the research project, patent filing, Copyright, proof of concept, prototype, incubation, innovation competitions, etc.

We have 17 center of Excellences in thrust areas of national importance, GHRCE is having annual research budget of 1 Crore (approximately) annually for participating and organizing conferences and workshops, R & D Facilities, seed money for taking up the research project, patent filing, Copyright, proof of concept, prototype, incubation, innovation competitions, Ph.D. Pre Submission before experts from IITs/IISc, Additional financial assistance to faculties to complete government funded research projects, 100% support Patent assistance. Institutes research facilities are updated frequently depending on the need of researcher's & Updation in technology. The facility which is to be updated are discussed in the meetings of Academic Council followed by the approved from Board of management.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://ghrce.raisoni.net/research
Any additional information	View File

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

12.98

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	View File
Any additional information	View File

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

41

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
Any additional information	No File Uploaded

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

37.95

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	View File

3.2.2 - Number of teachers having research projects during the year

32

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://ghrce.raisoni.net/research
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

37

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

9

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	https://rgicdn.s3.ap-south-1.amazonaws.com/ghrcenagpur/ssr/pdf/3.2.4.pdf
Any additional information	View File

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

GHRCE promotes technology innovation, creativity, and meaningful knowledge transfer, to support and nurture research in new product or services developments for successful Entrepreneurs. Also to build a vibrant start-up ecosystem with dedicated environment in Incubation Centre for value added job creation and to drive survival, sustainability, and profitability of start-up

entrepreneurs. GHRCE has a dedicated Incubation centre with the name G H Raison Technology Business Incubator Foundation (GHRTBIF) catalysed and supported by the NSTEDB Division, Department of Science and Technology, Government of India, New Delhi. As an associate of GH Raison College of Engineering, the incubator foundation is fully functional since Feb 2019. GHRCE Incubation Centre is a unique institutional arrangement for start-ups to help them kick-start their entrepreneurial journey while driving them to survive, grow, and thrive in the competitive business landscape. With a mission to fuel their Innovation ideas and Start-up business ideas and help them set up a perfect start-up venture, we have laid the foundation of a world-class infrastructure showcasing a seamless fusion of technology and innovation.

In 2023 we have enabled with the Govt. & Non Govt. Seed funding agencies schemes like NIDHI EIR (Entrepreneur in Residence) with 39 Lakhs & HDFC Parivartan CSR scheme of 25 Lakhs for support and enrichment of the Startup Ecosystem of our Incubated and Non Incubated startups.

We have currently 45+ start-ups on board under pre-incubation and incubation stages, including 2 Smart India Hackathon winners and a few other international winners.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ghrce.raisoni.net/innovation-edc

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

107

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	View File

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

A. All of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	View File

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

36

File Description	Documents
URL to the research page on HEI website	https://ghrce.raisoni.net/research
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	View File

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

174

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	View File

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

370

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://drive.google.com/file/d/1sgRMf0XpARpFBuXcVwt8bTir8nayZe6H/view

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed**3.4.5.1 - Total number of Citations in Scopus during the year**

4546

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University**3.4.6.1 - h-index of Scopus during the year**

30

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	View File

3.5 - Consultancy**3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)**

76.63

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	No File Uploaded

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

12.98

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	View File
List of facilities and staff available for undertaking consultancy	View File
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

Education is incomplete without extension activities. This is an important prong of education which focuses on community based services. G H Raisonni College of Engineering Nagpur carries out the various extension activities for the teaching staff, non-teaching staff & students. Under these activities, stakeholders apply their technical knowledge & experience to serve the social services in nearby local areas of the institution. It helps our students to get sensitized and feel responsibility. By performing these social activities, today's students who are tomorrow citizens become globally responsible citizens. These citizens are attached to their native places and contribute to the social

services of the community. The integrated academic & extension activity education enables our stakeholders for nurturing the sensitization towards communal development & developing values and assurance within individuals. The way of looking/ handling the communal issues like cleaning of surroundings, taking care of environment, increasing literacy ratio, computer literacy, digital literacy, health & hygiene aspects, tree plantation etc. is an appreciable task for the students. Institute carries out various sustainable practices consisting of use of solar energy, water efficiency, renewable energy etc. which improves the leadership in sustainability. Its outcome is spreading knowledge of sustainability useful for the learning of stakeholders as well as the community people. The curricular & extracurricular activities have an education value added proximity especially considering semi urban and rural areas.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ghrce.raisoni.net/nss

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

7

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

15

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

723

File Description	Documents
Reports of the events	View File
Any additional information	View File

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

1023

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

9

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	No File Uploaded

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 equipments, etc.

The college, since its inception in 1996, has never compromised with infrastructural facilities be it physical buildings, machinery, equipment, software, books and other learning resources.

Classroom Facilities

Institution has 56 classrooms and 12 tutorial rooms with excellent classroom facilities. Each class is provided with green/white board and stage with sufficient number of lights and fans. Each classroom is mounted with LCD projector and LAN Connection for ICT Based Learning is also provided.

Laboratory Facilities

Institute has modern, well equipped 73 laboratories with latest technology and equipment. The computing facility consists of licensed and open source software used by the faculty and students as per curricular requirements. A separate storage facility is provided to store raw material and consumables.

Computing Facilities

Institute provides well equipped computer facilities with the best computer lab and research center. A high speed optical fibre network enables students to access a wide range of services across the campus. Institute has 1505 Computers, 59 Printers, 22 Legal System Software and 117 Legal Application Software and 58 Multimedia Projectors. The Internet Bandwidth of 1GBPS with 55 secured Wi-Fi connectivity access points. A student to computer ratio of 3.25:1 is maintained in institute.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ghrce.raisoni.net/

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

Sports and Games Facilities

The College believes in wholesome grooming of its students and ensures that students acquire all the graduate attributes before leaving its portals. Institute has indoor sport centre with facilities like Table Tennis, Carrom, Chess and Pool Table and outdoor sports facilities like Futsal, Basketball, Volleyball, Cricket etc.

GYM and Fitness Centre

Institute has modern indoor Gym along with Green Gym which offers fun and safe learning environment that gives weight training, strengthening and weight loss programmes.

Cultural Activities

Institute has Auditorium with seating capacity of 1000 students. The auditorium is equipped with state of art facilities. Institute has separate space for activities conducted under Hobby clubs, NSS cell etc. The Institution offers a good opportunity for the students to come out with their talents in Dance, Music and Art. The institute celebrates three-day annual college festival Antaragni, Technorion and Spandan.

Yoga Activities

Yoga is a great way to work on flexibility and strength of the body, thus the well-being of staff/ students. In order to promote the Physical and Mental health of the staff/students, the institute offers yoga classes to all the interested staff/students.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	Nil

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

60

File Description	Documents
Upload any additional information	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

166.10

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	No File Uploaded

4.2 - Library as a Learning Resource

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

- Name of the ILMS software: SynchRonik ILMS software
- Nature of automation (fully or partially): Fully Automation
- Version: VB 5.5
- Year of automation:2000-2001

Library is well equipped with 54407 books in various disciplines of Engineering, Management, Science & Humanities 196 reputed Journals and 31 Magazines are subscribed to for the faculty, student and research scholars.

The Central Library with an area of 1359.7 Sqm. is located in two floors with a seating capacity of 300 students. The digital library is equipped with 20 PCs which are connected with Wi-Fi and LAN for fast and seamless access of the Internet for streaming NPTEL lectures and using e- Resources for the benefit of its users

Various Modules of Synchronik ILMS Software

1. Search (Online Public Access Catalogue):
<http://192.168.16.24/>

2. Circulation: - All types of counter transactions (for all documents types)
3. Database Management- Cataloguing
4. Report
5. Report of Periodical -(Journals)
6. Stock Verification

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.2.2 - Institution has access to the following: A. Any 4 or more of the above e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

40.95

File Description	Documents
Audited statements of accounts	View File
Any additional information	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

86

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	No File Uploaded

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

The IT infrastructure of institute plays a vital role in the development as the students are now focusing on the labs, class rooms while selecting institute. Institute has provided state of the art and well maintained IT Infrastructure to students and faculty members.

Following is a brief description about the services,

Computers-All labs are well equipped with branded desktops computers, besides dedicated labs with Apple iMac desktop running latest Mac O.S.

Internet- The Institute's network is linked to the Internet via a dedicated leased line of 1GBPS bandwidth

Wi-Fi-The entire campus has been Wi-Fi enabled to provide mobility to the users in accessing various services available on institute's network.

Servers & Data Storage- Institute host many on-premise servers to cater institute's application requirements.

E-Mailing Facilities-The E-mail facility is managed through G Suite. Every faculty & student has an e-mail ID on ghrce.raisoni.net domain.

Website- Institute has informative website: <https://ghrce.raisoni.net>. The information on website is regularly updated.

Learning Management System (LMS)-Moodle is Institute's Learning Management System. Faculty can use Moodle to deliver course materials, collect assignments, and communicate with students.

AI & ML Servers- Institute recently collaborated with Cisco for

High End Servers solution designed on latest Cisco's Hyper Flex Platform

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
4899	1505

File Description	Documents
Upload any additional information	View File

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. 50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	View File

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

A. All four of the above

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

740.87

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	No File Uploaded

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

The Management Committee foresees the requirements and needs of the institute. It prepares proposals and budgets, and gets the approval, for implementation and uses its resources optimally.

Infrastructure policy has two components: - Physical and IT Infrastructure, to facilitate the teaching-learning process.

- **Infrastructure facilities:** are maintained centrally construction department which has a team engineers, supervisors, plumbers, electrician, carpenter and gardener.
- **Optimum utilization of infrastructural facilities:** Optimum utilization of classrooms, computer lab and seminar hall are ensured by allocating time table for each department before commencement of semester.
- **Laboratory Maintenance:** All equipment and machinery of the laboratories are periodically maintained by the lab technicians.
- **Library:** Institute ensures effective utilization and maintenance of library through institute level library committee.
- **Sports equipment and facilities:** Institute's physical director is responsible to take care of sports equipment, facilities and regular sports activities.
- **Computers, IT Equipment and software:** Due to the large number of computers and networking, a separate team ITES (Information Technology Enabled Services) look after the maintenance of computers and the networking. With this team, breakdown calls related to systems are quickly resolved.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

3069

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

1881

File Description	Documents
Upload any additional information	View File
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology **A. All of the above**

File Description	Documents
Link to Institutional website	https://ghrce.raisoni.net/
Details of capability development and schemes	View File
Any additional information	View File

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

5811

File Description	Documents
Any additional information	View File
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

761

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

22

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	No File Uploaded

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

12

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

97

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

Students Council & representation play a vital role in the life of students, read on to know how. Extracurricular activities increase opportunities for social interaction and new relationship development. As most of these activities are group oriented which have students from different niches, which gives them a chance to more know about people of different passions and cultures. Extracurricular activities teach students how to work for a common goal and this ultimately develops a sense of responsibility in them. The Objectives are

- To encourage and motivate the creating a person who has ambitions to achieve something.
- To hold together students from all backgrounds, with all kinds of interests.
- To develop a general interest in science and Technical based Applications
- To improve scientific attitude and provide opportunities for practice in scientific method. To actively encourage the use of engineering technology in learning science.
- To better understand scientific knowledge through science experiments.
- To allow them to work in the field of their interest and hone their skills in presentation. • To maintain the students with knowledge in past and recent inventions in science.
- Engaging in a hobby leads to acquiring substantial skills, knowledge and experience.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ghrce.raisoni.net/student-representative-council

5.3.3 - Number of sports and cultural events / competitions organised by the institution

18

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	No File Uploaded

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

G H Raison College of Engineering having strong alumni connections. Our Alumni are our backbone with more than 16000 alumni connected in Network. The alumni plays a major role in institutional development. Our alumni are present across the globe with their impacts at higher level in many companies. Many have become successful entrepreneur in India and Abroad. Alumni are connected to Institute in enormous way throughout the year in following ways:

1. Curricula discussion
2. Panel discussion
3. Project mentoring
4. Project sponsorship
5. Placement and internship support
6. Guest lectures

7. Career guidance

8. Entrepreneurship development

Alumni are actively involved in the curricula development by giving their inputs based on practical experience through Board of Studies representation at their respective department. Alumni also engaged in Department Industry Advisory Board, Board of Governance and Academic Council. Continuous guidance and support has been provided by alumni to department students by conduction of Guest lectures on technical and HR interview preparation, Group discussion etc. Group of Alumni are also engaged in conduction of mock interview process for the current students and mentoring them for improvements. Placements, Job opportunities and internship support provided to the current students encourage a lot as alumni are at higher position.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://alumni.raisoni.net/

5.4.2 - Alumni's financial contribution during the year

D. 2 Lakhs - 5 Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

The institute has a well-developed Management System which provides strategic directions for its growth and development based on its vision and mission

Vision:

To achieve excellent standards of quality education by keeping pace with rapidly changing technologies and to create technical manpower of global standards with capabilities of accepting new

challenges

Mission:

- Our efforts are dedicated to impart quality and value based education to raise satisfaction level of all stake-holders.
- Our strength is directed to create competent professionals.
- Our endeavor is to provide all possible support to promote research & development activities.

The college is governed by Ankush Shikshan Sanstha. The Governing Body, the Academic Council comprising the Chairman, Director, Deputy Director, Controllers of Examination, Deans, Heads of Department, IQAC Coordinator and the external members are collectively engaged in setting quality benchmarks.

Perspective Plans

Long-term and Short-term plans are drawn up by the Management Committee.

Participation of Teachers

Teachers are represented in all bodies to work in close collaboration with the Management.

Statutory bodies

- Governing Board
- Academic Council
- Board of Studies (BoS)
- Finance Committee

Following are the other supporting arms of the Governance

- College Development Committee
- Examination Cell
- Grievance Redressal Committee
- Discipline committee
- Anti-Ragging Committee
- Library Committee
- Canteen Committee

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://ghrce.raisoni.net/important-links

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The members of the Governing Body (GB) has responsibility for institutional performance. The Chairman and members of the GB are actively engage themselves in the institute developmental activities. All of its decision and policies are made in the best interest of the institution with due consultations with the concerned stakeholders.

The college organizational chart provides an insight into the overall structure and authority with responsibility of various administrators and their levels in the organization. The Director, Deputy Directors & Deans make up the administration team. The heads of departments have the authority to make judgments on the majority of their department's issues.

The Director:

1. Overall administration.
2. Policy Formulation
3. Strategy formulation for the growth of Institute.
4. Delegates powers to the Deputy Director and other officials such as Deans, Heads of Departments and coordinators to ensure smooth and systematized governance.

Deputy Directors & Deans:

1. Statutory compliances.
2. Admission.
3. Administration
4. Deal with all student related matters, general discipline and organization of events.

The Heads of Department

1. Overall performance of the course.
2. Admissions and students' management.

Responsibilities of Faculty Members

- Teachers should try to develop an educational environment.
- Teachers should instill a scientific and democratic outlook among their students, making them community oriented, patriotic and broad minded. This is a part of their social responsibility.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	View File
Paste link for additional Information	https://ghrce.raisoni.net/research

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The Board of Governance of the Institute plays an important role in the growth of the Institute through regular reviews of policy matters and initiating new practices by creating 5-year vision plans. The Institute is administered on a day to day basis by the Director with other faculty members holding key administrative and academic responsibilities. The organizational chart and the roles and responsibilities of each functionary are clearly defined and also available on Institute website.

The vision, mission, branding Statement and value framework is aligned with the perspective plan of the Institute, which is prepared with the contribution from BoG members and faculty members considering the SWOT analysis, vision plan of each department and feedback from stakeholders. The following are the several bodies of the institution that are formed in response to statutory bodies' recommendations.

1. BoG

2. Academic Council

3. Internal Quality Assurance Cell

4. Finance Committee

5. Examination Committee

Powers are given to HoD & Faculty to ensure decentralization of all processes, monitoring records of attendance, student leaves, forwarding various documents & applications of students and final forwarding of examination form.

For each initiative taken by the IQAC separate coordinators are appointed at the department level to help in administration of the different activities such as, OBE coordinator, R&D coordinators, T&P coordinators, Exam Incharges, Website coordinator, Coordinator for departmental e-Newsletter, alumni coordinator etc.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://ghrce.raisoni.net/industry-institute-interaction
Upload any additional information	View File

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

The Governing Council and other statutory bodies like Academic Council, Board of Studies and Finance Committee ensure the smooth functioning of the Institution. Standard service rules and well established procedures for recruitment, promotion and grievance redressal are available. The same is made available to each Staff member through the 'Staff Hand Book'.

The organizational structure of the Institution is available in institution website and link is provided.

The organization has a well-structured administrative setup with Governing Body (GB) as the highest decision-making body and other statutory bodies like Academic Council, Board of Studies and Finance Committee ensure the smooth functioning of the Institution. with other functional bodies and committees. The administrative setup is provided in the Organization Chart

The administration of GHRCE, Nagpur is managed by the following

bodies.

- Governing Body
- The Director
- Deputy Director,
- Deans and
- Heads

Support units like central library, systems department, electrical, electronic maintenance, department and workshop support the academic programs. Accounts, establishment section, students' section help in maintaining various administration.

Recruitment rules, service rules and regulations

All the faculty recruited in the Institute are abide by the policies and rules of the organization and all the conditions are mentioned in their office appointment order.

File Description	Documents
Paste link to Organogram on the institution webpage	https://rgicdn.s3.ap-south-1.amazonaws.com/ghrcenagpur/images/GHRCE-organization-structure.avif
Upload any additional information	View File
Paste link for additional Information	https://ghrce.raisoni.net/

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

The college in general takes care of its employees well. There are several welfare measures in place for the teaching and non-teaching staff. Welfare schemes available are as follows

Welfare schemes for Teaching & non-teaching staff:

- 50% tuition fee reimbursement for their wards
- Salary Festival Advance
- Medical insurance
- 75% concession in fees in any institute of RGI
- Study leave for qualification updation
- Medical camp- free check up
- Bus Concession
- Pillars programme
- Diwali/ Makarsankranti/ Festival celebrations
- Annual Sports Meet

Welfare schemes for teaching staff:

- 50% concession for PG/Ph.D fees
- Medical insurance
- 50% concession in fees in any institute of RGI
- Study leave for qualification updation
- Best teacher awards- 2-3 every year
- Felicitation on award of Ph.D
- Training in IIT/Industry
- Cultural programme on Makarsankranti every year.
- Sports meet every year.
- Departmental get together
- Conduction of leadership programme for senior faculty members
- A well-equipped fitness center provides space for workouts.
- The Mandatory welfare schemes like gratuity and contributions to EPF (Employees Provident Fund) are in place.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ghrce.raisoni.net/

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

155

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

16

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

307

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Internal and external auditing are used by the Institute to ensure financial compliance. The institutional accounts are audited on a regular basis. If the auditors make any observations, they are quickly corrected / rectified.

Internal Audit: Internal auditing is a continual process that takes place on a regular basis. The Institute conducts internal financial audit twice in a year at the end of each semesters. Financial audit of the Institute is done by forming a two members committee. To evaluate the adequacy of internal control systems and management of funds. To ensure the compliance of the laid down policies and procedures as documented in the Project Implementation Plan and Financial Management Manual of the project.

External Audit: The College's financial accounts are audited by an external auditor chosen by the college. External financial audit is also being done from time to time by the Charter Accountant (CA). External financial audit includes the audit of Vouching of all bank and cash transactions, Ledger scrutiny, analysis of fixed assets register, cash book, advance register, checking of bank reconciliation statement, scrutiny of all documents relating to purchase of fixed assets. The Institution also publishes audited financial statements on the institutions website.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ghrce.raisoni.net/

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists

during the year (not covered in Criterion III and V) (INR in lakhs)

19.30

File Description	Documents
Annual statements of accounts	View File
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	View File

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

The institution has a well-planned system for effective and efficient use of available financial resources. The master key for taking financial decision and related matters is vested in the Finance Committee and the management officials, who constantly monitor and encourage for the proper utilization of required funds as per the department for various activities such as recurring and non-recurring expenses. Mobilization of funds in the institute is through several sources. The primary source is through tuition fees of the students. In addition, financial assistance is obtained through external funded research projects and by carrying out consultancy works. The interest generated on corpus also contributes towards income.

Sources of funds are as follows:

1. Fees charged is as per the DTE and government norms from students of various undergraduate, postgraduate & research scholars.
2. Grants for Research activities from Government and Non-Government Bodies.
3. Fees from hostels.

Optimum utilization of funds is ensured through the following:

Adequate funds are allocated for effective teaching-learning practices that include-Orientation, Programmes, Workshops, Guest lectures, Conferences, Seminars, FDPs, Inter disciplinary activities, Training programmes, Refresher courses, Accreditation

process, Enhancement of library facilities, maintenance of infrastructure, social responsibilities through NSS etc. that ensures quality education. In case of any need where financial support is required, proper requisition in writing is made from the concerned department. In case of any immediate requirement, the details of requirement of equipment's, maintenance, infrastructures etc. are prepared and proper procedure for purchase is adopted, which is handled by the purchase committee.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://ghrce.raisoni.net/

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

IQAC of the institution is a cell which continuously monitors the quality practices and ensures all the institutional academic policies thoroughly followed as prescribed by the apex bodies. The prime responsibility of IQAC is to initiate, plan and supervise various activities that are obligatory to increase the quality of the education imparted in the institute. The IQAC Cell strategically ensures the quality of teaching-learning practices through stringent initiatives and measures taken such as faculty Self-Appraisal, STTPs, FDPs, workshops on OBE, International Conferences, internal , external & administrative academic audit, Accreditations etc.

The two practices institutionalized by IQAC are:

1. Facilitating conduct of internal and external academic audit of Departments/Institutes
2. Conduction of Index International Conference

Internal and external academic audit of departments/Institute

The IQAC believes that the academic audit provides an opportunity for a regular strategic overview of teaching-learning process.

Finally a report of the audit is prepared and is placed for action plan to be suggested to improve the quality of academic activities.

Conduction of Index International conference

The IQAC has been instrumental in promoting research through research sensitization programs on improving the quality of publications, citations etc. by conducting Index International conference regularly.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ghrce.raisoni.net/

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

IQAC being the central body within the college monitors and review the teaching-learning process regularly. Based on feedback various innovative activities and reforms were introduced.

The improvements based on feedback implemented are: IQAC periodically reviews the teaching-learning process, Structures & methodologies of operations, and learning outcomes The standard methods of teaching, learning, and evaluation which are proven over the years are being followed.

- **Academic Calendar:**
- **Preparation of teaching plan for each Semester:**
- **Daily lecture Record & attendance:**
- **Evaluation of teachers by students:** The institution has a feedback system to evaluate the teachers by students. The regular evaluation of the teachers by the students, feedback on teaching methodologies, advanced teaching methodology used, course delivery, attitude, advanced topics, difficulties faced in the subject give a clear idea about the problems faced by the students. Director, Dean Academics & Dean IQAC also monitor the feedback system and takes appropriate corrective actions.
- **Effective Internal examination and evaluation systems:**
- **Students' Result Analysis:**
- **Credit Transfer Scheme (CTS):** Regular feedback on academic

parameters will be conducted twice in a semester by the students and also directly from the class representatives in CRs meeting

- **Student learning outcomes:** The institute monitors the performance of the students regularly. It has specified procedure to collect and analyze data on student learning outcomes.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ghrce.raisoni.net/

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://ghrce.raisoni.net/internal-quality-assurance-cell
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

The concept of gender equity refers to "fairness of treatment for both women and men, according to their respective needs. This may

include equal treatment or treatment that is different but which is considered equivalent in terms of rights, benefits, obligations and opportunities". Education deals with formation of habits of human beings. Gender equity in education means that males and females have equal opportunities in terms of economic, social, cultural, and political developments. If gender equity is exactly achieved this will contribute to future of girls and boys more than approaches men-centered, and girls will get benefits from public and domestic life as much as boy.

Measures initiatives taken by the Institution for the promotion of gender equity

A. Infrastructure for women Security

1. CCTV Camera
2. Visitor register
3. Restricted Entry
4. Female guard
5. Female staff
6. Outing system
7. Health facilities in hostel
8. Medical facility in campus
9. Common Rooms
10. Hostel warden

B. Women Cell activities.

1. Makar Sankranti Celebration
2. Women Health programs
3. Celebration of International Women's Day
4. Guest lecture to empower women.

C. Administrative structure for Women safety at GHRCE

1. Discipline in campus
2. Women Grievance and empowerment cell
3. GHRCE rules and regulations
4. Internal Complain Committee & Grievance cell
5. Grievance committee for prevention of atrocities act (SC & ST)
6. Students Redressal Committee.
7. Antiragging Committee.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy plant Wheeling to the Grid energy conservation Use of LED bulbs/ power-efficient equipment

A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	View File
Any other relevant information	View File

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

G H Raison College of Engineering carry out generation of solid waste twice in a year after end of the session (winter and summer). Solid waste is categories majorly as Inorganic and organic. Inorganic waste- is further classified as paper waste, plastic paste, e-waste. As it is educational institute paper waste is generated majorly due to answer sheet usage for various examination and Journal writing by students. Generated Scrap in Institute has been auctioned through tenders and dispatched for recycling managements potential vender like Raj Steel Enterprises, Nagpur for recycling purpose. The supply of water in the institute is 1,50,000 litres on daily basis, provided 2 RO plant of capacity 1000 litres and 500 litres purification. Raw water is received from 2 wells located at Gyandeeep Nagar & Vaishali Nagar. This water is stored into overhead storage tank and underground storage tank. This usage is reduced to large extent during COVID-19 period . As an educational institute paper waste is generated majorly due to answer sheet usage for various examination and Journal writing by students.

Facilities in the institution for the management of the following types of degradable and non-degradable waste

- Solid waste management
- Liquid waste management

- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geotagged photographs of the facilities	View File
Any other relevant information	No File Uploaded

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	No File Uploaded

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows: A. Any 4 or All of the above

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles
3. Pedestrian-friendly pathways
4. Ban on use of plastic
5. Landscaping

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	No File Uploaded

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

A. Any 4 or all of the above

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

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	View File
Any other relevant information	No File Uploaded

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance,

A. Any 4 or all of the above

reader, scribe, soft copies of reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	View File
Details of the software procured for providing assistance	View File
Any other relevant information	No File Uploaded

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

As a part of curriculum institute has been taken more effort to enhancing universal ethic value which is help full to growth his carrer for this at GHRCE we are coductng of various activity thourgh out year throgh various banner like national studnet service scheme, (NSS)studnet represntative council ,(SRC) women cell etc. Under this banner at GHRCE variois program has been cobdcuted like national youth day, international women day, internataional yoga day etc .Under the women cell various women empowerment related activity has been coducted through out year. Also In GHRCE we provideing platform to studnet unser SRC to show talent in the sinnging, dance ,sport etc. Throgh SRC studnet partciapting in various extracurricular activity on college level and univercity level. Also in GHRCE vibrant NSS section presenat under the NSS studnet are celebrate various event , day also some activ social programe like cleanness capen , road safet camapen etc. apart from this tree at GHRCE Institute innovation cell also encourage student to participate in various national level innovative project competition like smart india hackthon, MEDHA Toycathone etc.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations:

values, rights, duties and responsibilities of citizens:

The Institute organizes various programs from time to time for the promotion of Constitutional values, rights, duties, and responsibilities of citizens. The Institute designs various activities to create awareness about the national identity and symbols. Moreover, these are aimed to familiarize its stakeholders about Fundamental Duties and Rights. GHRCE celebrates Independence Day on the 15th of August every year along with all faculties and students. The day marks the importance of freedom, on this day, Flag hoisting ceremony is organized followed by recitation of the National Anthem. The Director delivers a talk on the importance of freedom and the glory Indian freedom struggle. On the occasion of 74th Independence Day - 15th August 2021, the Patriotic song competition was held at GHRCE, Nagpur, in online mode (WebEx) at 10 am. Every year on 26th January, GHRCE celebrates Republic Day with faculties and students in campus with great gratification to honour the date on which the constitution of India came into effect. The institute celebrates Constitutional Day every year on 26th November to commemorate the adaptation of the Constitution of India. The day highlights the efforts of the makers of constitution. Some of the event, the institute celebrating are as follows.

Vigilance Awareness week Rashtriya Ekta Diwas/ Day Constitution Day Road Safety awareness Dr. Babasaheb Ambedkar Jayanti Anti-terrorism Day World No Tobacco Day Patriotic Song Competition

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	No File Uploaded

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

A. All of the above

File Description	Documents
Code of Ethics - policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	View File
Any other relevant information	No File Uploaded

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

In GHRCE we are celebrating various national international day . Out of them mostly from starting In the month of Jan national youth day, republic day, Chatrapati Shivaji Maharaj Jayanti, women day, Innovation day, Science day, Independence day, International Yoga day, Teacher day and Engineering day etcon college level .On the occasion of Engineer day and Teacher day we are felicitate to award winning faculty and student also .On this day most of the faculty those are file patent, grantingpatent and other awardees is felicitated by college with cash incentive . Also on this occasion college declare best teacher of the year from all branches . On the occasion of women day college women cell conducting various event for all ladies faculty . .on the occasion of makar sankranti haldi kunku program also celebrating On the occasion of International Yoga day all faculty and student actively celebrated this day in college . On independence day celebration NSS team organized various program out of them blood donation camp is one of them.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	View File
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

G H Raison College of Engineering, Nagpur is practicing various practices in the institute. Following are two best practices mentioned.

Case 1: Intellectual Property Right Concept Implementation

The institution has a formal Patent Cell. The main objective of this Patent Cell is to facilitate the faculty and students for identifying the ideas and organising systems that leads to registering formal Patents. The Patent Cell takes initiatives for registering the innovations conceptualized at the institution. The basic underlying principle of this best practice is to create an ecosystem in the institution that leads to generation of intellectual property. Through this initiative, projects are identified, concepts are nurtured and eventually the content is filed in the form of Patent applications.

Case 2: G H Raison College of Engineering's Innovation Culture

Ministry of Education (MoE), Govt. of India has established 'MoE's Innovation Cell (MIC)' to systematically foster the culture of Innovation among all Higher Education Institutions (HEIs). The primary mandate of MIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes.

Evidences of Success.

- 327 patents filed, Granted 80 National and 12 International.
- 130 copyrights granted.
- Ranked in band of 51-100 PAN India by NIRF under Innovation Ranking, MoE, Govt of India in year 2022-23.
- GHRCE IIC ranked with highest star Rating for year 2022-23

File Description	Documents
Best practices in the Institutional website	https://ghrce.raisoni.net/innovation-edc
Any other relevant information	https://drive.google.com/file/d/1JNACxXBy9Yq0xFJNXWxRC0Jp59rj2ApT/view?usp=drive_link

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Title of the Practice: GHRCE Incubation Centre

Institution has created an eco-system for innovations, creation and transfer of knowledgesupported by dedicated centre for entrepreneurship, community orientation, research & Incubation.

GHRCE Incubation Centre

We have started this Incubation centre in the form of E-Cell in 2015-16. Moving further with the goals we organizes various programs in the form of seminars in 2017 where in we allotted personalized cubicles with conference hall & discussion rooms to some innovative startups from the students like Bellatrix pvt. Ltd, Infogunity Pvt. Ltd and so on. The center in funded by DST undet NIDHI TBI of grant 14 crore.

In the 20000 sqft incubation centre, we have thoughtfully positioned various incubation facilities. An exclusive fabrication lab for rapid prototyping, powerful design software, networking tools, Cisco AI server, a small library, open pantry, and canteen are just a few to mention. Moreover, the 60 seater co-working space, 30 seater computer lab, studio room with 75+ seating capacity, board room with video conferencing facilities, meeting rooms, and 6 acres of the agricultural research centre are the benchmarking workstations within the incubation centre.

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

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

Design, development and implementation of program curriculum is a continuous process. The institute's vision and mission along with action plans navigates the dedication and relevance of the curriculum towards the needs of society at local, regional and national level. The curriculum development thus has relevance to the society needs with systematically defined and disseminated PSOs/POs and COs leading to OBE. The institute has SoP which leads to holistic development of students as responsible citizens by imparting quality education. Each department has a BoS which deals with the curriculum. The BoS conducts the need analysis that comprises

- Demand for the program (Emerging Technology / Thrust Areas / Foreseen Technology)
- Relevance to the local needs and Skill based Education with Entrepreneurship opportunities
- Model Curriculum provided by AICTE and institutes of national repute.
- Brainstorming sessions with Industry Experts and stakeholders.

Based on Vision and Mission of the institution and that of the department, Graduate Attributes (POs) and stakeholder's inputs, the Program Educational Objectives (PEOs), Program Specific Outcomes (PSOs) are framed for particular program. The curriculum designed has sufficient flexibility in choosing the departmental and/or interdisciplinary courses / courses offered by industry / post graduate courses for UG students etc. right from the first year.

File Description	Documents
Upload additional information, if any	View File
Link for additional information	https://docs.google.com/document/d/1FehelqUhguZl6m-aSlHXtc-h8XLApE-3/edit?usp=sharing&oid=117960241223374502004&rtpof=true&sd=true

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

27

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	View File

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

1065

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	No File Uploaded
Any additional information	No File Uploaded

1.2 - Academic Flexibility**1.2.1 - Number of new courses introduced across all programmes offered during the year**

463

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

27

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

Guidelines & model curriculum of AICTE, UGC and NEP are considered & due weightage is given to cross cutting issues in curriculum by integrating related contents in the teaching learning process. Professional Ethics: Ethics & Professional Competencies, Entrepreneurship Development, Cyber Ethics and Moral Responsibility, Technical Report Writing, Aptitude-I, CRT, Industry 4.0, Communication Skills, IPR. Practices of professional societies. Institute has plagiarism policy wherein the plagiarism check of thesis / publications are done. Gender: Liberal Arts, Hobby Clubs, Projects and Internships. Institute has constituted committees like Women cell, sexual harassment for gender discrimination prevention code. Human Values: UHV, Applied Life Skills for Progressive Excellence, Content Designing and Media Fundamentals, Cyber Ethics and Moral Responsibility, Theatrics, Social Internship. Institute has active NSS cell which undertakes social services related activities imbining human values. Institute undertakes activities like Traffic Awareness, Joy of Giving, Village Adoption and celebrates days like National voters' day, National girl's day. Environment and Sustainability: Waste

Management, Environmental Chemistry and Engineering, Energy Audit, Soil Mechanics, Irrigation and Drainage Engineering, Energy Conversion, Nonconventional Energy Sources, Solar Energy and Management, Hydrology & Water resource Engineering, Disaster Preparedness, Earthquake Resistant and Retaining Structures, Waste Water Engineering, Green Building, Air Pollution, Groundwater Management, Battery Technology.

In addition to the above courses institute also addresses the crosscutting issues by encouraging the participations of students in activities like Swachhata Pakhwada, Unnat Bharat, Cleanliness Drive, national day celebrations etc.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	No File Uploaded

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

119

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	No File Uploaded

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

9432

File Description	Documents
List of students enrolled	View File
Any additional information	View File

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

1181	
File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File
1.4 - Feedback System	
1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni	A. All 4 of the above
File Description	Documents
Provide the URL for stakeholders' feedback report	https://ghrce.raisoni.net/academics
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	No File Uploaded
1.4.2 - The feedback system of the Institution comprises the following	A. Feedback collected, analysed and action taken made available on the website
File Description	Documents
Provide URL for stakeholders' feedback report	https://ghrce.raisoni.net/academics
Any additional information	View File
TEACHING-LEARNING AND EVALUATION	
2.1 - Student Enrollment and Profile	
2.1.1 - Enrolment of Students	
2.1.1.1 - Number of students admitted (year-wise) during the year	
1280	

File Description	Documents
Any additional information	No File Uploaded
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

466

File Description	Documents
Any additional information	No File Uploaded
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

The institute has adopted a choice-based credit system to accommodate diverse student needs, assessing learning levels via continuous evaluations, ESE, and informal interactions. Students with CGPA above 8.25 are deemed fast learners, advised accordingly, while those below 6.75 are guided to register suitable credits for self-paced learning.

Several schemes are available for fast learners, including the Credit Transfer Scheme, a student exchange program with institutions like IIT, Gandhinagar, IIIT Nagpur, COE Pune, VJTI Mumbai and the Peer Teaching Scheme, where students of higher semesters teach to lower semesters. Fast learners can also take additional courses and earn a degree with Honor or Minor specialization by earning requisite credits. Flexible credit limits exist for different CGPA slabs and pending courses. Toppers are rewarded with cash prizes, medals, and awards, such as Topper award, Best student and Best PG thesis awards, to encourage overall development of students.

The institute offers various schemes to support slow learners and academically weaker students. These include remedial teaching, grade improvement schemes, vacation examinations, summer terms, teacher guardian/faculty advisor schemes, special tracks for slow learners under CBCS, and makeup classes.

Remedial teaching provides one additional hour of coaching, while grade improvement schemes allow students to improve their CGPA. Students who cannot secure pass grades in ESE can register for vacation ESE. Summer terms allow students who got FF grades in ESE. Faculty members are also allocated to group students as teacher guardian/faculty advisors.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ghrce.raisoni.net/academics

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
18/08/2022	4573	280

File Description	Documents
Upload any additional information	View File

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:

The institute's teaching and learning processes focus on student-centric lifelong learning methods. The program curriculum includes experiential and participative learning, problem-solving methodologies, and activity-based learning. It combines theory, tutorial, practical, project, and internship categories.

Students participate in tutorial sessions where they learn active participative problem-solving methodologies. Laboratory courses provide experiential learning through hands-on experimental/simulation setups, with small projects carried out based on the course content. Students attend trainings, demonstrations, and installations sessions of experimental setups/tools procured in various laboratories.

Students undergo project and semester internships, where they undertake and execute projects from idea to implementation,

testing, demonstrating, and installations. Semester internships make students acquainted with industry culture and latest industrial technology setups, making them technically competent graduates with a background in experimental learning and experience working in industry culture.

The institute also organizes workshops and skill-training programs for all students, including a mandatory semester internship program. To enhance experiential learning experiences, the institute partners with IIT Madras NPTEL, uses NPTEL-MOOCs like SWAYAM, Coursera, and Virtual Laboratories, and offers industry-led elective courses, partial delivery of curriculum by experts of IITs, visits to industries and research organizations, laboratory setups, skill development courses, etc.

The institute has undergone NABL accreditation, leading to consultancy projects and work. Students can also participate in project competitions hosted by the institute, which hosts national level competitions with world leaders in academic and research activities. The institute has numerous credentials, including NIRF rankings, ARIIA ranking, and Platinum ranking by ACITE-CII survey.

File Description	Documents
Upload any additional information	View File
Link for additional Information	Nil

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

The institute's legacy includes a robust integration of ICT tools in teaching and learning since gaining autonomy. The quality of this experience depends heavily on teachers' readiness to embrace technological advancements. To enhance faculty proficiency, the institute has developed ICT facilities and provided training. The objective is not just to promote ICT tools but to significantly improve teaching and learning effectiveness. Faculty employ various approaches, fostering individual and collaborative learning, encouraging interactive participation, and instilling a sense of responsibility in learners. Learning Management Systems (LMSs) and other e-resources play a vital role in this process.

Initiatives to enhance Teaching Learning Processes (TLP) include student-centric methodologies, teacher training programs, and the integration of diverse ICT tools like NPTEL, SWAYAM, and MOOCs. The campus is equipped with Wi-Fi. Additional tools include virtual laboratories; ISRO e-learning courses; ASME, ASCE, Elsevier, JGate MBA and Engineering access; The institute employs platforms like Moodle, WEBEX, and Google Suite for online teaching, evaluation, and collaboration. Other measures encompass plagiarism checks, hybrid classes, etc. Online training, Superset placement platforms, and internships further enrich the learning experience. Overall, the institute prioritizes leveraging ICT to optimize teaching and learning outcomes.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://rgicdn.s3.ap-south-1.amazonaws.com/ghrcenagpur/ssr/pdf/2.3.2.pdf
Upload any additional information	View File

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

280

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

The academic year comprises odd and even terms, each with 90 teaching days, and a summer term. A draft calendar is formulated based on the previous year's calendar and input from department heads, deans, the CoE, and the Registrar. This draft is circulated for faculty member's suggestions before final approval by the director and dissemination to students and faculty via the institute's website.

The calendar outlines activities such as pre-session preparation, timetable finalization, counseling, course registrations, assessments, and academic audits. Monitoring of the teaching plan's implementation occurs monthly, with attention to syllabi coverage and student performance. Defaulting students are identified, and compliance is ensured through action taken reports (ATRs).

Teaching plans are developed by course teachers in alignment with the academic calendar, considering available time, modules, assessments, and objectives. Laboratory sessions and project courses are also planned, with details communicated to students and posted online. Adherence to the academic calendar and teaching plans is overseen by the Dean IQAC through internal and external audits. Senior faculty members conduct audits to verify planned activities, lectures, and syllabus coverage, with remedial actions implemented by department heads based on audit findings.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

280

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	No File Uploaded

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

66

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	No File Uploaded

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

5674

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	No File Uploaded

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

24.85

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	No File Uploaded

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

165

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

IT has a very vital role in ESE and CIA processes and procedures. The Office of Controller of Examinations has sections like Confidential, Examination and Spot Valuation etc under the umbrella of Management Information System (MIS). The MIS is the backbone of IT integration in examination reforms. IT infrastructure of the Office of Controller of Examination includes high end printing and reprographic facilities, High end standalone and intranet enabled systems etc. IT integration in examinations has also brought convenience and ease of operations. Standard Operating Process for online mode examinations are formulated. Google Classrooms, Google Colab, Google Forms and Moodle etc are used for conducting CIA and ESE. The confidentiality in the examination and evaluation processes is well ensured through checks and balances at various levels by providing level wise rights and privileges to various authorities and involved human resource like CoE, MIS in charge, SPOT in charge, ESE in charge, HoDs, Paper Setter, Valuer, Scrutinizer, Internal and External Examiners. The hierarchical system in synchronization with examination committee lead by head of the institution has brought improvements in the form of purity of examinations and has dropped down the cases of grievances and also cases of unfair means.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://ghrce.raisoni.net/examination-cell

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

The Institute has implemented Outcome Based Education (OBE). OBE based parameters (PEOs, POs & PSOs, COs) are defined, drafted, brainstormed and approved in the respective committees like focus group, industry advisory board and statutory bodies like BoS and AC. The course outcomes are defined considering the base of revised bloom's taxonomy (remember, understand, apply, analysis, evaluate create). Interlinking (Correlation) amongst vision / mission, Program Educational Objectives (PEOs), Program Specific Outcomes (PSOs), Program Outcomes (POs), program specific criteria of internationally known professional societies such as ASME, ASCE and IEEE and Course Outcomes (COs) is done by way of level wise mapping. Mapping leads to computation of attainment levels which further account for investigation of gap analysis and corrective actions thereof. Faculty explains the Course Outcomes expected from the students in the orientation classes / beginning lecture in every semester. Mapping of COs with questions asked in various examinations are indicated. Computation of attainment is done by direct and indirect methods through various assessment tools and weightages are defined for respective tools and methods.

PEOs and POs are displayed on

- College website (www.ghrce.raisoni.net)
- Practical record
- Pocket calendar
- Conference hall
- Auditorium
- Classroom
- Handbook
- Seminar room
- Wall paper on Laptop/Desktop PC
- HoD cabin /office
- Laboratories

PEOs and POs are disseminated in

- Orientation program for students
- Orientation program for faculties
- Every event conducted by college or department (Like professional society, parents meet, alumni meet, co curricular/extracurricular activities)

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	https://ghrce.raisoni.net/academics

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

A. Attainment of COs:

Assessment Methods / Tools / Processes: Conventional methods (On / Off line mode) (CIE and SEE), Project/ internship Evaluation. Workshop based / Activity based / Hackathon based / Skill course. The program defines the target level depending upon the history for last two years. Question papers are included with the mapping of COs with questions. Depending upon the target comparison with current year performance of students, tool weightage, the level of attainment for particular assessment tool is decided. Then addition of tool wise contribution is done to calculate course outcome attainment.

Overall CO attainment: Attainment by CIE Tools * 0.4 +
Attainment by ESE Tools * 0.6

B. Attainment of POs & PSOs:

Direct method involves the attainment values of COs while indirect method involves the computation and analysis of surveys. Direct Method & Assessment Tools: The attainment level of course outcomes are put in PAM. Statistical method is applied for computation. Indirect Method and Assessment Tools: Executed for PO-PSO mapped questionnaire. The rated response is found out to get the percentage level of PO and PSO attainment.

Overall Attainment of POs and PSOs: 0.6* Direct Attainment +
0.4 * Indirect Attainment.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://ghrce.raisoni.net/academics

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

2282

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	No File Uploaded
Paste link for the annual report	https://ghrce.raisoni.net/internal-quality-assurance-cell

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

https://drive.google.com/file/d/1ObDxHaSk1Sm5EZ_fRptbkx985cY9izti/view?usp=sharing

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

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

G H RaisonI college of Engineering is well Known for its Promotion of Research Eco-system and on the basis of repeatedly adding the research facilities like Tableau software, Ansys, MIMICS, SPSS, AR/VR etc and support like having Establishment of Dedicated R&D Cell as per latest UGC Norms, Qualified and Experience faculties, Satellite Center, Laboratories with

research oriented facilities, Library books, multimedia, Conference Proceedings, Plagiarism checking by Turnitin software. College is having well defined policy for Promotion of Research to participate in conferences, workshops seed money for taking up the research project, patent filing, Copyright, proof of concept, prototype, incubation, innovation competitions, etc.

We have 17 center of Excellences in thrust areas of national importance, GHRCE is having annual research budget of 1 Crore (approximately) annually for participating and organizing conferences and workshops, R & D Facilities, seed money for taking up the research project, patent filing, Copyright, proof of concept, prototype, incubation, innovation competitions, Ph.D. Pre Submission before experts from IITs/IISc, Additional financial assistance to faculties to complete government funded research projects, 100% support Patent assistance. Institutes research facilities are updated frequently depending on the need of researcher's & Updation in technology. The facility which is to be updated are discussed in the meetings of Academic Council followed by the approved from Board of management.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://ghrce.raisoni.net/research
Any additional information	View File

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

12.98

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	View File
Any additional information	View File

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

41

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
Any additional information	No File Uploaded

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

37.95

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	View File

3.2.2 - Number of teachers having research projects during the year

32

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://ghrce.raisoni.net/research
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

37

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

9

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	https://rgicdn.s3.ap-south-1.amazonaws.com/ghrcenagpur/ssr/pdf/3.2.4.pdf
Any additional information	View File

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

GHRCE promotes technology innovation, creativity, and meaningful knowledge transfer, to support and nurture research

in new product or services developments for successful Entrepreneurs. Also to build a vibrant start-up ecosystem with dedicated environment in Incubation Centre for value added job creation and to drive survival, sustainability, and profitability of start-up entrepreneurs. GHRCE has a dedicated Incubation centre with the name G H Raisonni Technology Business Incubator Foundation (GHRTBIF) catalysed and supported by the NSTEDB Division, Department of Science and Technology, Government of India, New Delhi. As an associate of GH Raisonni College of Engineering, the incubator foundation is fully functional since Feb 2019. GHRCE Incubation Centre is a unique institutional arrangement for start-ups to help them kick-start their entrepreneurial journey while driving them to survive, grow, and thrive in the competitive business landscape. With a mission to fuel their Innovation ideas and Start-up business ideas and help them set up a perfect start-up venture, we have laid the foundation of a world-class infrastructure showcasing a seamless fusion of technology and innovation.

In 2023 we have enabled with the Govt. & Non Govt. Seed funding agencies schemes like NIDHI EIR (Entrepreneur in Residence) with 39 Lakhs & HDFC Parivartan CSR scheme of 25 Lakhs for support and enrichment of the Startup Ecosystem of our Incubated and Non Incubated startups.

We have currently 45+ start-ups on board under pre-incubation and incubation stages, including 2 Smart India Hackathon winners and a few other international winners.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ghrce.raisoni.net/innovation-edc

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

107

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	View File

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

A. All of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	View File

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

36

File Description	Documents
URL to the research page on HEI website	https://ghrce.raisoni.net/research
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	View File

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

174

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	View File

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

370

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://drive.google.com/file/d/1sgRMf0XpARpFBuXcVwt8bTir8nayZe6H/view

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed**3.4.5.1 - Total number of Citations in Scopus during the year**

4546

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University**3.4.6.1 - h-index of Scopus during the year**

30

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	View File

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

76.63

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	No File Uploaded

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

12.98

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	View File
List of facilities and staff available for undertaking consultancy	View File
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

Education is incomplete without extension activities. This is an important prong of education which focuses on community based services. G H Raisonni College of Engineering Nagpur carries out the various extension activities for the teaching staff, non-teaching staff & students. Under these activities, stakeholders apply their technical knowledge & experience to serve the social services in nearby local areas of the institution. It helps our students to get sensitized and feel responsibility. By performing these social activities, today's students who are tomorrow citizens become globally responsible citizens. These citizens are attached to their native places and contribute to the social services of the community. The integrated academic & extension activity education enables our stakeholders for nurturing the sensitization towards communal development & developing values and assurance within individuals. The way of looking/ handling the communal issues like cleaning of surroundings, taking care of environment, increasing literacy ratio, computer literacy, digital literacy, health & hygiene aspects, tree plantation etc. is an appreciable task for the students. Institute carries out various sustainable practices consisting of use of solar energy, water efficiency, renewable energy etc. which improves the leadership in sustainability. Its outcome is spreading knowledge of sustainability useful for the learning of stakeholders as well as the community people. The curricular & extracurricular activities have an education value added proximity especially considering semi urban and rural areas.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ghrce.raisoni.net/nss

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

7

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

15

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

723

File Description	Documents
Reports of the events	View File
Any additional information	View File

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

1023

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

9

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	No File Uploaded

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 equipments, etc.

The college, since its inception in 1996, has never compromised with infrastructural facilities be it physical buildings, machinery, equipment, software, books and other learning resources.

Classroom Facilities

Institution has 56 classrooms and 12 tutorial rooms with excellent classroom facilities. Each class is provided with green/white board and stage with sufficient number of lights and fans. Each classroom is mounted with LCD projector and LAN Connection for ICT Based Learning is also provided.

Laboratory Facilities

Institute has modern, well equipped 73 laboratories with latest technology and equipment. The computing facility consists of licensed and open source software used by the faculty and students as per curricular requirements. A separate storage facility is provided to store raw material and consumables.

Computing Facilities

Institute provides well equipped computer facilities with the best computer lab and research center. A high speed optical fibre network enables students to access a wide range of services across the campus. Institute has 1505 Computers, 59

Printers, 22 Legal System Software and 117 Legal Application Software and 58 Multimedia Projectors. The Internet Bandwidth of 1GBPS with 55 secured Wi-Fi connectivity access points. A student to computer ratio of 3.25:1 is maintained in institute.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ghrce.raisoni.net/

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

Sports and Games Facilities

The College believes in wholesome grooming of its students and ensures that students acquire all the graduate attributes before leaving its portals. Institute has indoor sport centre with facilities like Table Tennis, Carrom, Chess and Pool Table and outdoor sports facilities like Futsal, Basketball, Volleyball, Cricket etc.

GYM and Fitness Centre

Institute has modern indoor Gym along with Green Gym which offers fun and safe learning environment that gives weight training, strengthening and weight loss programmes.

Cultural Activities

Institute has Auditorium with seating capacity of 1000 students. The auditorium is equipped with state of art facilities. Institute has separate space for activities conducted under Hobby clubs, NSS cell etc. The Institution offers a good opportunity for the students to come out with their talents in Dance, Music and Art. The institute celebrates three-day annual college festival Antaragni, Technorion and Spandan.

Yoga Activities

Yoga is a great way to work on flexibility and strength of the body, thus the well-being of staff/ students. In order to promote the Physical and Mental health of the staff/students,

the institute offers yoga classes to all the interested staff/students.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	Nil

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

60

File Description	Documents
Upload any additional information	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

166.10

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	No File Uploaded

4.2 - Library as a Learning Resource

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

- Name of the ILMS software: SyNchRonik ILMS software
- Nature of automation (fully or partially): Fully Automation
- Version: VB 5.5
- Year of automation:2000-2001

Library is well equipped with 54407 books in various disciplines of Engineering, Management, Science & Humanities 196 reputed Journals and 31 Magazines are subscribed to for the faculty, student and research scholars.

The Central Library with an area of 1359.7 Sqm. is located in two floors with a seating capacity of 300 students. The digital library is equipped with 20 PCs which are connected with Wi-Fi and LAN for fast and seamless access of the Internet for streaming NPTEL lectures and using e- Resources for the benefit of its users

Various Modules of Synchronik ILMS Software

1. Search (Online Public Access Catalogue):
<http://192.168.16.24/>
2. Circulation: - All types of counter transactions (for all documents types)
3. Database Management- Cataloguing
4. Report
5. Report of Periodical -(Journals)
6. Stock Verification

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

40.95	
File Description	Documents
Audited statements of accounts	View File
Any additional information	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File
4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)	
4.2.4.1 - Number of teachers and students using the library per day during the year	
86	
File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	No File Uploaded
4.3 - IT Infrastructure	
4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities	
<p>The IT infrastructure of institute plays a vital role in the development as the students are now focusing on the labs, class rooms while selecting institute. Institute has provided state of the art and well maintained IT Infrastructure to students and faculty members.</p> <p>Following is a brief description about the services,</p> <p>Computers-All labs are well equipped with branded desktops computers, besides dedicated labs with Apple iMac desktop running latest Mac O.S.</p> <p>Internet- The Institute's network is linked to the Internet via a dedicated leased line of 1GBPS bandwidth</p> <p>Wi-Fi-The entire campus has been Wi-Fi enabled to provide mobility to the users in accessing various services available on institute's network.</p>	

Servers & Data Storage- Institute host many on-premise servers to cater institute's application requirements.

E-Mailing Facilities-The E-mail facility is managed through G Suite. Every faculty & student has an e-mail ID on ghrce.raisoni.net domain.

Website- Institute has informative website: <https://ghrce.raisoni.net>. The information on website is regularly updated.

Learning Management System (LMS)-Moodle is Institute's Learning Management System. Faculty can use Moodle to deliver course materials, collect assignments, and communicate with students.

AI & ML Servers- Institute recently collaborated with Cisco for High End Servers solution designed on latest Cisco's Hyper Flex Platform

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
4899	1505

File Description	Documents
Upload any additional information	View File

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus A. 250 Mbps

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	View File

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing	A. All four of the above
--	---------------------------------

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

740.87

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	No File Uploaded

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

The Management Committee foresees the requirements and needs of the institute. It prepares proposals and budgets, and gets the approval, for implementation and uses its resources optimally.

Infrastructure policy has two components: - Physical and IT Infrastructure, to facilitate the teaching-learning process.

- Infrastructure facilities: are maintained centrally construction department which has a team engineers, supervisors, plumbers, electrician, carpenter and gardener.
- Optimum utilization of infrastructural facilities: Optimum utilization of classrooms, computer lab and

seminar hall are ensured by allocating time table for each department before commencement of semester.

- **Laboratory Maintenance:** All equipment and machinery of the laboratories are periodically maintained by the lab technicians.
- **Library:** Institute ensures effective utilization and maintenance of library through institute level library committee.
- **Sports equipment and facilities:** Institute's physical director is responsible to take care of sports equipment, facilities and regular sports activities.
- **Computers, IT Equipment and software:** Due to the large number of computers and networking, a separate team ITES (Information Technology Enabled Services) look after the maintenance of computers and the networking. With this team, breakdown calls related to systems are quickly resolved.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

3069

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

1881

File Description	Documents
Upload any additional information	View File
Institutional data in prescribed format	View File
5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology	A. All of the above
File Description	Documents
Link to Institutional website	https://ghrce.raisoni.net/
Details of capability development and schemes	View File
Any additional information	View File
5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year	
5811	
File Description	Documents
Any additional information	View File
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	View File
5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances	A. All of the above

through appropriate committees

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression**5.2.1 - Number of outgoing students who got placement during the year**

761

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

22

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	No File Uploaded

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year**5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year**

12

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

97

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

Students Council & representation play a vital role in the life of students, read on to know how. Extracurricular activities increase opportunities for social interaction and new relationship development. As most of these activities are group oriented which have students from different niches, which gives them a chance to more know about people of different passions and cultures. Extracurricular activities teach students how to work for a common goal and this ultimately develops a sense of responsibility in them. The Objectives are

- To encourage and motivate the creating a person who has ambitions to achieve something.
- To hold together students from all backgrounds, with all kinds of interests.
- To develop a general interest in science and Technical based Applications
- To improve scientific attitude and provide opportunities for practice in scientific method. To actively encourage the use of engineering technology in learning science.

- To better understand scientific knowledge through science experiments.
- To allow them to work in the field of their interest and hone their skills in presentation. • To maintain the students with knowledge in past and recent inventions in science.
- Engaging in a hobby leads to acquiring substantial skills, knowledge and experience.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ghrce.raisoni.net/student-representative-council

5.3.3 - Number of sports and cultural events / competitions organised by the institution

18

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	No File Uploaded

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

G H Raison College of Engineering having strong alumni connections. Our Alumni are our backbone with more than 16000 alumni connected in Network. The alumni plays a major role in institutional development. Our alumni are present across the globe with their impacts at higher level in many companies. Many have become successful entrepreneur in India and Abroad. Alumni are connected to Institute in enormous way throughout the year in following ways:

1. Curricula discussion

2. Panel discussion
3. Project mentoring
4. Project sponsorship
5. Placement and internship support
6. Guest lectures
7. Career guidance
8. Entrepreneurship development

Alumni are actively involved in the curricula development by giving their inputs based on practical experience through Board of Studies representation at their respective department. Alumni also engaged in Department Industry Advisory Board, Board of Governance and Academic Council. Continuous guidance and support has been provided by alumni to department students by conduction of Guest lectures on technical and HR interview preparation, Group discussion etc. Group of Alumni are also engaged in conduction of mock interview process for the current students and mentoring them for improvements. Placements, Job opportunities and internship support provided to the current students encourage a lot as alumni are at higher position.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://alumni.raisoni.net/

5.4.2 - Alumni's financial contribution during the year

D. 2 Lakhs - 5 Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the

vision and mission of the Institution

The institute has a well-developed Management System which provides strategic directions for its growth and development based on its vision and mission

Vision:

To achieve excellent standards of quality education by keeping pace with rapidly changing technologies and to create technical manpower of global standards with capabilities of accepting new challenges

Mission:

- Our efforts are dedicated to impart quality and value based education to raise satisfaction level of all stakeholders.
- Our strength is directed to create competent professionals.
- Our endeavor is to provide all possible support to promote research & development activities.

The college is governed by Ankush Shikshan Sanstha. The Governing Body, the Academic Council comprising the Chairman, Director, Deputy Director, Controllers of Examination, Deans, Heads of Department, IQAC Coordinator and the external members are collectively engaged in setting quality benchmarks.

Perspective Plans

Long-term and Short-term plans are drawn up by the Management Committee.

Participation of Teachers

Teachers are represented in all bodies to work in close collaboration with the Management.

Statutory bodies

- Governing Board
- Academic Council
- Board of Studies (BoS)
- Finance Committee

Following are the other supporting arms of the Governance

- College Development Committee
- Examination Cell
- Grievance Redressal Committee
- Discipline committee
- Anti-Ragging Committee
- Library Committee
- Canteen Committee

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://ghrce.raisoni.net/important-links

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The members of the Governing Body (GB) has responsibility for institutional performance. The Chairman and members of the GB are actively engage themselves in the institute developmental activities. All of its decision and policies are made in the best interest of the institution with due consultations with the concerned stakeholders.

The college organizational chart provides an insight into the overall structure and authority with responsibility of various administrators and their levels in the organization. The Director, Deputy Directors & Deans make up the administration team. The heads of departments have the authority to make judgments on the majority of their department's issues.

The Director:

1. Overall administration.
2. Policy Formulation
3. Strategy formulation for the growth of Institute.
4. Delegates powers to the Deputy Director and other officials such as Deans, Heads of Departments and coordinators to ensure smooth and systematized governance.

Deputy Directors & Deans:

1. Statutory compliances.
2. Admission.
3. Administration
4. Deal with all student related matters, general discipline and organization of events.

The Heads of Department

1. Overall performance of the course.
2. Admissions and students' management.

Responsibilities of Faculty Members

- Teachers should try to develop an educational environment.
- Teachers should instill a scientific and democratic outlook among their students, making them community oriented, patriotic and broad minded. This is a part of their social responsibility.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	View File
Paste link for additional Information	https://ghrce.raisoni.net/research

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The Board of Governance of the Institute plays an important role in the growth of the Institute through regular reviews of policy matters and initiating new practices by creating 5-year vision plans. The Institute is administered on a day to day basis by the Director with other faculty members holding key administrative and academic responsibilities. The organizational chart and the roles and responsibilities of each functionary are clearly defined and also available on Institute website.

The vision, mission, branding Statement and value framework is aligned with the perspective plan of the Institute, which is prepared with the contribution from BoG members and faculty members considering the SWOT analysis, vision plan of each department and feedback from stakeholders. The following are the several bodies of the institution that are formed in response to statutory bodies' recommendations.

1. BoG
2. Academic Council
3. Internal Quality Assurance Cell
4. Finance Committee
5. Examination Committee

Powers are given to HoD & Faculty to ensure decentralization of all processes, monitoring records of attendance, student leaves, forwarding various documents & applications of students and final forwarding of examination form.

For each initiative taken by the IQAC separate coordinators are appointed at the department level to help in administration of the different activities such as, OBE coordinator, R&D coordinators, T&P coordinators, Exam Incharges, Website coordinator, Coordinator for departmental e-Newsletter, alumni coordinator etc.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://ghrce.raisoni.net/industry-institute-interaction
Upload any additional information	View File

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

The Governing Council and other statutory bodies like Academic Council, Board of Studies and Finance Committee ensure the smooth functioning of the Institution. Standard service rules

and well established procedures for recruitment, promotion and grievance redressal are available. The same is made available to each Staff member through the 'Staff Hand Book'.

The organizational structure of the Institution is available in institution website and link is provided.

The organization has a well-structured administrative setup with Governing Body (GB) as the highest decision-making body and other statutory bodies like Academic Council, Board of Studies and Finance Committee ensure the smooth functioning of the Institution. with other functional bodies and committees. The administrative setup is provided in the Organization Chart

The administration of GHRCE, Nagpur is managed by the following bodies.

- Governing Body
- The Director
- Deputy Director,
- Deans and
- Heads

Support units like central library, systems department, electrical, electronic maintenance, department and workshop support the academic programs. Accounts, establishment section, students' section help in maintaining various administration.

Recruitment rules, service rules and regulations

All the faculty recruited in the Institute are abide by the policies and rules of the organization and all the conditions are mentioned in their office appointment order.

File Description	Documents
Paste link to Organogram on the institution webpage	https://rgicdn.s3.ap-south-1.amazonaws.com/ghrcenagpur/images/GHRCE-organization-structure.avif
Upload any additional information	View File
Paste link for additional Information	https://ghrce.raisoni.net/

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

The college in general takes care of its employees well. There are several welfare measures in place for the teaching and non-teaching staff. Welfare schemes available are as follows

Welfare schemes for Teaching & non-teaching staff:

- 50% tuition fee reimbursement for their wards
- Salary Festival Advance
- Medical insurance
- 75% concession in fees in any institute of RGI
- Study leave for qualification updation
- Medical camp- free check up
- Bus Concession
- Pillars programme
- Diwali/ Makarsankranti/ Festival celebrations
- Annual Sports Meet

Welfare schemes for teaching staff:

- 50% concession for PG/Ph.D fees
- Medical insurance
- 50% concession in fees in any institute of RGI
- Study leave for qualification updation
- Best teacher awards- 2-3 every year
- Felicitation on award of Ph.D

- Training in IIT/Industry
- Cultural programme on Makarsankranti every year.
- Sports meet every year.
- Departmental get together
- Conduction of leadership programme for senior faculty members
- A well-equipped fitness center provides space for workouts.
- The Mandatory welfare schemes like gratuity and contributions to EPF (Employees Provident Fund) are in place.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ghrce.raisoni.net/

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

155

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

16

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

307

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Internal and external auditing are used by the Institute to ensure financial compliance. The institutional accounts are audited on a regular basis. If the auditors make any observations, they are quickly corrected / rectified.

Internal Audit: Internal auditing is a continual process that takes place on a regular basis. The Institute conducts internal financial audit twice in a year at the end of each semesters. Financial audit of the Institute is done by forming a two members committee. To evaluate the adequacy of internal control systems and management of funds. To ensure the compliance of the laid down policies and procedures as documented in the Project Implementation Plan and Financial Management Manual of the project.

External Audit: The College's financial accounts are audited by an external auditor chosen by the college. External financial audit is also being done from time to time by the Charter Accountant (CA). External financial audit includes the audit of Vouching of all bank and cash transactions, Ledger scrutiny, analysis of fixed assets register, cash book, advance register, checking of bank reconciliation statement, scrutiny of all documents relating to purchase of fixed assets. The Institution also publishes audited financial statements on the institutions website.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ghrce.raisoni.net/

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

19.30

File Description	Documents
Annual statements of accounts	View File
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	View File

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

The institution has a well-planned system for effective and efficient use of available financial resources. The master key for taking financial decision and related matters is vested in the Finance Committee and the management officials, who constantly monitor and encourage for the proper utilization of required funds as per the department for various activities such as recurring and non-recurring expenses. Mobilization of funds in the institute is through several sources. The primary source is through tuition fees of the students. In addition, financial assistance is obtained through external funded research projects and by carrying out consultancy works. The interest generated on corpus also contributes towards income.

Sources of funds are as follows:

1. Fees charged is as per the DTE and government norms from students of various undergraduate, postgraduate & research scholars.
2. Grants for Research activities from Government and Non-Government Bodies.
3. Fees from hostels.

Optimum utilization of funds is ensured through the following:

Adequate funds are allocated for effective teaching-learning practices that include-Orientation, Programmes, Workshops, Guest lectures, Conferences, Seminars, FDPs, Inter disciplinary activities, Training programmes, Refresher courses, Accreditation process, Enhancement of library facilities, maintenance of infrastructure, social responsibilities through NSS etc. that ensures quality education. In case of any need where financial support is required, proper requisition in writing is made from the concerned department. In case of any immediate requirement, the details of requirement of equipment's, maintenance, infrastructures etc. are prepared and proper procedure for purchase is adopted, which is handled by the purchase committee.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://ghrce.raisoni.net/

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

IQAC of the institution is a cell which continuously monitors the quality practices and ensures all the institutional academic policies thoroughly followed as prescribed by the apex bodies. The prime responsibility of IQAC is to initiate, plan and supervise various activities that are obligatory to increase the quality of the education imparted in the institute. The IQAC Cell strategically ensures the quality of teaching-learning practices through stringent initiatives and measures taken such as faculty Self-Appraisal, STTPs, FDPs, workshops on OBE, International Conferences, internal , external & administrative academic audit, Accreditations etc.

The two practices institutionalized by IQAC are:

1. Facilitating conduct of internal and external academic

audit of Departments/Institutes

2. Conduction of Index International Conference

Internal and external academic audit of departments/Institute

The IQAC believes that the academic audit provides an opportunity for a regular strategic overview of teaching-learning process.

Finally a report of the audit is prepared and is placed for action plan to be suggested to improve the quality of academic activities.

Conduction of Index International conference

The IQAC has been instrumental in promoting research through research sensitization programs on improving the quality of publications, citations etc. by conducting Index International conference regularly.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ghrce.raisoni.net/

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

IQAC being the central body within the college monitors and review the teaching-learning process regularly. Based on feedback various innovative activities and reforms were introduced.

The improvements based on feedback implemented are: IQAC periodically reviews the teaching-learning process, Structures & methodologies of operations, and learning outcomes The standard methods of teaching, learning, and evaluation which are proven over the years are being followed.

- Academic Calendar:
- Preparation of teaching plan for each Semester:
- Daily lecture Record & attendance:
- Evaluation of teachers by students: The institution has a feedback system to evaluate the teachers by students. The

regular evaluation of the teachers by the students, feedback on teaching methodologies, advanced teaching methodology used, course delivery, attitude, advanced topics, difficulties faced in the subject give a clear idea about the problems faced by the students. Director, Dean Academics & Dean IQAC also monitor the feedback system and takes appropriate corrective actions.

- Effective Internal examination and evaluation systems:
- Students' Result Analysis:
- Credit Transfer Scheme (CTS): Regular feedback on academic parameters will be conducted twice in a semester by the students and also directly from the class representatives in CRs meeting
- Student learning outcomes: The institute monitors the performance of the students regularly. It has specified procedure to collect and analyze data on student learning outcomes.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ghrce.raisoni.net/

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://ghrce.raisoni.net/internal-quality-assurance-cell
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

The concept of gender equity refers to "fairness of treatment for both women and men, according to their respective needs. This may include equal treatment or treatment that is different but which is considered equivalent in terms of rights, benefits, obligations and opportunities". Education deals with formation of habits of human beings. Gender equity in education means that males and females have equal opportunities in terms of economic, social, cultural, and political developments. If gender equity is exactly achieved this will contribute to future of girls and boys more than approaches men-centered, and girls will get benefits from public and domestic life as much as boy.

Measures innitiatives taken bythe Institution for the promotion of gender equity

A. Infrastructure for women Security

1. CCTV Camera
2. Visitor register
3. Restricted Entry
4. Female guard
5. Female staff
6. Outing system
7. Health facilities in hostel
8. Medical facility in campus
9. Common Rooms

10. Hostel warden

B. Women Cell activities.

1. Makar Sankranti Celebration
2. Women Health programs
3. Celebration of International Women's Day
4. Guest lecture to empower women.

C. Administrative structure for Women safety at GHRCE

1. Discipline in campus
2. Women Grievance and empowerment cell
3. GHRCE rules and regulations
4. Internal Complain Committee & Grievance cell
5. Grievance committee for prevention of atrocities act (SC & ST)
6. Students Redressal Committee.
7. Antiragging Committee.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment

A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	View File
Any other relevant information	View File

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

G H Raisonni College of Engineering carry out generation of solid waste twice in a year after end of the session (winter and summer). Solid waste is categories majorly as Inorganic and organic. Inorganic waste- is further classified as paper waste,

plastic paste, e-waste. As it is educational institute paper waste is generated majorly due to answer sheet usage for various examination and Journal writing by students. Generated Scrap in Institute has been auctioned through tenders and dispatched for recycling managements potential vender like Raj Steel Enterprises, Nagpur for recycling purpose. The supply of water in the institute is 1,50,000 litres on daily basis, provided 2 RO plant of capacity 1000 litres and 500 litres purification. Raw water is received from 2 wells located at Gyandeeep Nagar & Vaishali Nagar. This water is stored into overhead storage tank and underground storage tank. This usage is reduced to large extent during COVID-19 period . As an educational institute paper waste is generated majorly due to answer sheet usage for various examination and Journal writing by students.

Facilities in the institution for the management of the following types of degradable and non-degradable waste

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

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geotagged photographs of the facilities	View File
Any other relevant information	No File Uploaded

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	No File Uploaded

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

- 1. Restricted entry of automobiles**
- 2. Use of bicycles/ Battery-powered vehicles**
- 3. Pedestrian-friendly pathways**
- 4. Ban on use of plastic**
- 5. Landscaping**

A. Any 4 or All of the above

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	No File Uploaded

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

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

A. Any 4 or all of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	View File
Any other relevant information	No File Uploaded

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	View File
Details of the software procured for providing assistance	View File
Any other relevant information	No File Uploaded

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

As a part of curriculum institute has been taken more effort to enhancing universal ethic value which is help full to growth his carrer for this at GHRCE we are coductng of various activity thorough out year throug various banner like national

studnet service scheme, (NSS)studnet representative council ,(SRC) women cell etc. Under this banner at GHRCE variois program has been cobdcuted like national youth day, international women day, internataional yoga day etc .Under the women cell various women empowerment related activity has been coducted through out year. Also In GHRCE we provideing platform to studnet unser SRC to show talent in the sinnging, dance ,sport etc. Throgh SRC studnet partciapting in various extracurricular activity on college level and univercity level. Also in GHRCE vibrant NSS section presenat under the NSS studnet are celebrate various event , day also some activ social programe like cleanness capen , road safet camapen etc. apart from this tree at GHRCE Institute innovation cell also encourage student to participate in various national level innovative project competition like smart india hackthon, MEDHA Toycathone etc.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

The Institute organizes various programs from time to time for the promotion of Constitutional values, rights, duties, and responsibilities of citizens. The Insitute designs various activities to create awareness about the national identity and symbols. Moreover, these are aimed to familiarize its stakeholders about Fundamental Duties and Rights.GHRCE celebrates Independence Day on the 15th of August every year along with all faculties and students. The day marks the importance of freedom, on this day, Flag hoisting ceremony is organized followed by recitation of the National Anthem. The Director delivers a talk on the importance of freedom and the glory Indian freedom struggle. On the occasion of 74th Independence Day - 15th August 2021, the Patriotic song competition was held at GHRCE, Nagpur, in online mode (WebEx) at 10 am. Every year on 26th January, GHRCE celebrates RepublicDay with faculties and students in campus with great gratification to honour the date on which the constitution of India came into effect.The institute celebrates Constitutional Day every year on 26thNovember to commemorate

the adaptation of the Constitution of India. The day highlights the efforts of the makers of constitution. Some of the event, the instate celebrating are as follows.

Vigilance Awareness week Rashtriya Ekta Diwas/ Day Constitution Day Road Safety awareness Dr. Babasaheb Ambedkar Jayanti Anti-terrorism Day World No Tobacco Day Patriotic Song Competition

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	No File Uploaded

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

A. All of the above

File Description	Documents
Code of Ethics - policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	View File
Any other relevant information	No File Uploaded

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

In GHRCE we are celebrating various national international day . Out of them mostly from starting In the month of Jan national

youth day, republic day, Chatrapati Shivaji Maharaj Jayanti, women day, Innovation day, Science day, Independence day, International Yoga day, Teacher day and Engineering day etcon college level .On the occasion of Engineer day and Teacher day we are felicitate to award winning faculty and student also .On this day most of the faculty those are file patent, granting patent and other awardees is felicitated by college with cash incentive . Also on this occasion college declare best teacher of the year from all branches . On the occasion of women day college women cell conducting various event for all ladies faculty . .on the occasion of makar sankranti haldi kunku program also celebrating On the occasion of International Yoga day all faculty and student actively celebrated this day in college . On independence day celebration NSS team organized various program out of them blood donation camp is one of them.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	View File
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

G H Raison College of Engineering, Nagpur is practicing various practices in the institute. Following are two best practices mentioned.

Case 1: Intellectual Property Right Concept Implementation

The institution has a formal Patent Cell. The main objective of this Patent Cell is to facilitate the faculty and students for identifying the ideas and organising systems that leads to registering formal Patents. The Patent Cell takes initiatives for registering the innovations conceptualized at the institution. The basic underlying principle of this best practice is to create an ecosystem in the institution that leads to generation of intellectual property. Through this initiative, projects are identified, concepts are nurtured and

eventually the content is filed in the form of Patent applications.

Case 2: G H Raisonni College of Engineering's Innovation Culture

Ministry of Education (MoE), Govt. of India has established 'MoE's Innovation Cell (MIC)' to systematically foster the culture of Innovation among all Higher Education Institutions (HEIs). The primary mandate of MIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes.

Evidences of Success.

- 327 patents filed, Granted 80 National and 12 International.
- 130 copyrights granted.
- Ranked in band of 51-100 PAN India by NIRF under Innovation Ranking, MoE, Govt of India in year 2022-23.
- GHRCE IIC ranked with highest star Rating for year 2022-23

File Description	Documents
Best practices in the Institutional website	https://ghrce.raisoni.net/innovation-edc
Any other relevant information	https://drive.google.com/file/d/1JNACxXBy9Yq0xFJNXWxRC0Jp59rj2ApT/view?usp=drive_link

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Title of the Practice: GHRCE Incubation Centre

Institution has created an eco-system for innovations, creation and transfer of knowledgesupported by dedicated centre for entrepreneurship, community orientation, research & Incubation.

GHRCE Incubation Centre

We have started this Incubation centre in the form of E-Cell in 2015-16. Moving further with the goals we organizes various

programs in the form of seminars in 2017 where in we allotted personalized cubicles with conference hall & discussion rooms to some innovative startups from the students like Bellatrix pvt. Ltd, Infogunity Pvt. Ltd and so on. The center is funded by DST under NIDHI TBI of grant 14 crore.

In the 20000 sqft incubation centre, we have thoughtfully positioned various incubation facilities. An exclusive fabrication lab for rapid prototyping, powerful design software, networking tools, Cisco AI server, a small library, open pantry, and canteen are just a few to mention. Moreover, the 60 seater co-working space, 30 seater computer lab, studio room with 75+ seating capacity, board room with video conferencing facilities, meeting rooms, and 6 acres of the agricultural research centre are the benchmarking workstations within the incubation centre.

File Description	Documents
Appropriate link in the institutional website	https://ghrtbi.com/
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

Plan of action for the next academic year

- NIRF Ranking
- NBA for UG and PG Programme
- External Academic and Administrative Audit
- Internal Academic & Activity Audit
- Conduction of Smart India Hackathon
- International AI Summit
- Conduction of Short Term Training Programme (STTP)
- Conduction of Faculty Development programme
- Conduction of Two Indexed International Conferences
- Skill programmes for students
- Patent Filing
- Funding projects for Grant
- Scopus & Web of Science International Journal Publications
- Participation of students in various Events