



Yearly Status Report - 2018-2019

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. Preeti Bajaj
Designation	Director
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	09689903286
Mobile no.	9822220369
Registered Email	principal.ghrce@raisoni.net
Alternate Email	preeti.bajaj@raisoni.net
Address	CRPF Gate No.3, Hingna Road
City/Town	Nagpur
State/UT	Maharashtra
Pincode	440016

2. Institutional Status					
Autonomous Status (Provide date of Conformant of Autonomous Status)			04-May-2010		
Type of Institution			Co-education		
Location			Urban		
Financial Status			private		
Name of the IQAC co-ordinator/Director			Dr. P.V.Walke		
Phone no/Alternate Phone no.			08329948872		
Mobile no.			9881713575		
Registered Email			principal.ghrce@raisoni.net		
Alternate Email			pramod.walke@raisoni.net		
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)			https://www.ghrce.raisoni.net/igac/2017-18_AQAR.pdf		
4. Whether Academic Calendar prepared during the year			Yes		
if yes,whether it is uploaded in the institutional website: Weblink :			https://ghrce.raisoni.net/academic/UG-Activity%20Calendar%202018-19%20EVEN.pdf		
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
2	A+	3.51	2017	12-Sep-2017	11-Sep-2022
6. Date of Establishment of IQAC			27-Jan-2012		
7. Internal Quality Assurance System					
Quality initiatives by IQAC during the year for promoting quality culture					
Item /Title of the quality initiative by	Date & Duration		Number of participants/ beneficiaries		

IQAC		
NIRF-111th PAN India Rank in Engineering Discipline	06-Dec-2018 365	5588
External Administrative & Academic audit	29-Jun-2019 02	257
Academic Audit-Internal	13-Jul-2018 03	257
Academic Audit-Internal	31-Aug-2018 03	257
Academic Audit-Internal	03-Oct-2018 03	257
Academic Audit-Internal	30-Dec-2018 03	257
Academic Audit-Internal	06-Feb-2019 05	257
Academic Audit-Internal	30-Mar-2019 07	257
Choice Based Credit System for UG and PG	15-Jun-2015 1825	5331
CII - Platinum Status by AICTE-CII Survey	15-May-2019 365	5588
Patent- 5th Rank in Patent Filing in 2018 as per Indian Patent Office Annual report.	15-May-2019 365	5588
Atal Ranking (ARIIA)	15-May-2019 365	5588
Credit Transfer Scheme	01-Jul-2018 365	29
faculty Ph.D. (Awarded/submitted /pursuing)	15-May-2019 365	119
Quality of Publications	15-May-2019 365	693

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

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Mr. Kunal U Bodhe	Smart India Hackathon 2017	AICTE	2017 730	300000
Prof. Ankur Gupta	AIYEHUM	IEEE	2018 365	32500
Dr. P.V. Walke	Minor Research Project	UGC	2017 730	210000
Mr. Atul Deshmukh	MODROBS	AICTE	2018 365	700000

Prof. A. D. Pitale	Minor Research Project	UGC	2017 730	215000
Prof. N. P. Awate	Minor Research Project	UGC	2017 730	255000
Prof.R.T.Bankar	GYTI	BIRAC	2016 1095	1000000

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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

3

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

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

12. Significant contributions made by IQAC during the current year(maximum five bullets)

- NIRF ranking 111th PAN India in Engineering Discipline for year 2019 and ARIIA
- Pre qualifier report of NBA (TierI) for Three UG programmes submitted and UG re accreditation of 03 programme (B. E. Information Technology, B. E. Civil Engineering and B. E. Electrical Engineering)
- External Academic Administrative audit conducted on 2829 June 2019 by External Members.
- Internal Audit thrice in a semester and External Administrative Academic audit by external experts held for 201819 on 2829th June 2019
- Center of excellence in thrust areas like Biomedical Engineering technology (Incubation) Centre BETiC , Artificial Intelligence and Machine Learning IoT.

- Atal Ranking (ARIIA) amongst top 100 institutes, developed "Improvement Card" for the top 100 odd institutes shortlisted.
- Prize winning participation in Smart India Hackathon Software/ hardware category

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

Plan of Action

Achivements/Outcomes

International Conference organization	Two international conferences organized in association with IEEE and Springer • International Conference On Smart Technologies for Energy, Environment & Sustainable Development organized on 28th - 29th July 2018 association with Springer • International Conference on Smart Electric Drives and Power System organized on 12-13 June 2018 association with IEEE
Moodle - Course Management System as the teaching learning platform	Total examinations conducted: 88
Short Term Training Programmes (STTP and FDPs)	<ul style="list-style-type: none"> • Effective Teaching & Learning through MOODLE (ISTE Sponsored) • 3D Printing for Industrial & Biomedical Applications • ML using Python • STAAD-PRO 2 • Speech and Video Processing • Python 6 • 3D Printing 2 • Electrical Simulation Softwares • Internet of Things (IoT) 2 • Python 5 • FMS / Robotics & Automation (Mechatronics) • Open Road Designer & Open Road Concept Station (MX-Road) • AI-Deep Learning
Skill Programmes	<p>Skill Programmes organized for students</p> <ol style="list-style-type: none"> 1. 3D Printing and Glider Design-145 2. Advance C Programming 70 3. Alexa 168 4. Android-73 5. Android Development-713 6. Ansys 65 7. Ansys + Hypermesh (For those students who opted CAD)- 8. Applications of CAD CAM CAE and Welding Technology-120 9. Artificial Intelligence & Machine Learning-2794 10. Automobile Engg. Mahindra/Yamaha-60 11. AWS Analytics Service Overview-67 12. AWS Cloud Practitioner Essentials-67 13. AWS Machine learning Tool 112 14. AWS Simple Storage Service Primer-67 15. Big Data & Data Analytics 75 16. Big Data & Hadoop 616 17. Big data & hadoop (E-III) 105 18. Biomedical Engineering 133 19. CAME:Matlab & Labview 63 20. CATIA +3D Printing + Glider Design 67 21. CATIA+3D Printing+Glider Design 136 22. CFD 65 23. Cloud Computing 890 24. Complete process of Construction of own house : case study-267 25. Data Analytics 296 26. Environmental Audit:Case study-149 27. Estimating & Costing 290 28. Glider Design 62 29. Google Analytics 125 30. Hypermesh 144 31. Information Security 361 32. iOS 50 33. IOT & Data Analytics 274 34. IOT with Arduino 60 35. Java Programming & Data base Mgmt 226 36. Java Programming & Database 51 37. Java Programming & Database Management 81 38. Latex 212

	39. Matlab & Labview 57 40. Matlab Simuling & Speech & Video Processing 291 41. Micro-processor & Applications 25 42. Microprocessor Application (AIOT & Aurdino) 134 43. Microsoft Azure AI 135 44. Node JS 162 45. Primavera 145 46. Property tax & Estimation 142 47. RC Aircraft and Glider Design 127 48. Refrigeration and Air Conditioning + CFD (For those students who opted RAC)-65 49. Robotics 172 50. Solar 146 51. Speech & Video Processing 266 52. Supercapacitor & Application-240 53. Total Station 148 54. Vaastu concept for building 146 55. Vastu Concepts for building 121 56. WaterGEMS 116 57. Word Press 72 58. Word press / ADOBE 155
External Academic & Administrative Audit	External Academic & Administrative audit was conducted by External Experts on 28-29 th June 2019 Members of External Committee Dr.Milind Atery, Professor, IIT, Mumbai Dr.V.M.Gadre, Professor, IIT, Mumbai Dr.O.G.Kakde, Professor, IIIT, Nagpur
Academic Audit-Internal	Internal audits (Three audit in each semester) were done by cross departmental faculties. Performances of Teachers are improved.
Research Methodology,product design &Patent Workshops	Quality of publications improved by considering Citations in Scopus and Web of Science Patents,prizes in innovation
PhD Colloquia	02 PhD Colloquia held during 2018-19
Credit Transfer Scheme	Total 29 students benefited through this scheme across Institutes and Industries
Choice Based Credit System	Progressively implemented from 2015-16. Currently in 2018-19 Seventh and Eighth term. Then Minor and Honor degree provisions are there for students For 2018-19 Fast Learners:577 Slow Learners:391
Participation of students in Smart India Hackathon	03 Projects groups under Software Category and 01 Under Hardware category have won the prizes.
NIRF ranking	NIRF ranking 111th PAN India in Engineering Discipline for year 2019
ARIIA Ranking	Amongst top 100 institutes, developed "Improvement Card" for the top 100 odd institutes shortlisted.
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14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
Governing Body	30-Jun-2019
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	06-Apr-2019
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2019
Date of Submission	25-Feb-2019
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>Yes, the Institute has a well designed Management Information System. All the major academic and nonacademic activities are implemented through MIS. Management Information System (MIS) software has been developed for all Teaching Learning planning and implementation processes, all preexamination, examination and post examination and supplementary processes such as Time table generation, student list generation, online payment for examination detention list attendance of students, all internal and end semester examinations, entry of all internal marks tabulations, result declaration, result analysis, letter to parents etc. are done through MIS system.</p> <ul style="list-style-type: none"> • Modules currently operational. • Automatic Student ID Generation • Automatic Students Transaction in Next Semester • Roll List generation. • Course offered and Course registration • Course registration approval by Faculty advisor • Course Add/ Drop Facility • Online Attendance entry and monitoring/ reports • Parents letter generations and provisional detention list • Consolidation of Internal Marks • Online Exam Registration • Hall ticket generation based on students exam form. • Generation of TR • Generation of Grade cards. • GHRCE Student Diary

Android App (Attendance, Internal Marks, Results, Time table, Teaching plan, Details etc)

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BE	411629310	Electrical Engineering	16/02/2019
BE	411624610	Information Technology	23/02/2019
BE	411619110	Civil Engineering	23/02/2019
BE	411661210	Mechanical Engineering	02/03/2019
BE	411624210	Computer Science & Engineering	23/02/2019
BE	411637610	Electronics Engineering	02/03/2019
BE	411637210	Electronics & Telecommunication Engineering	02/03/2019

1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BE	Computer Science & Engineering	02/07/2018	- Foreign Language (BHUP103) - Liberal/ Creative Arts (BHUP104) - Mini Model through Innovation & Creativity - Communication Skills (BHUL101 - BHUP101) - Ethics & Professional Competencies (BHUP102) - Entrepreneurship (BMBP101), Quant (BHUP203)	02/07/2018
BE	Information Technology	02/07/2018	- Foreign Language (BHUP103) - Liberal/	02/07/2018

			Creative Arts(BHUP104) - Mini Model through Innovation & Creativity - Communication Skills(BHUL101 - BHUP101) - Ethics& Professional Competencies (BHUP102) - Entrepreneurship (BMBP101), Quant (BHUP203)	
BE	Civil Engineering	02/07/2018	Foreign Language(BHUP103) Liberal/ Creative Arts(BHUP104) Mini Model through Innovation Creativity Communication Skills(BHUL101 BHUP101) Ethics Professional Competencies (BHUP102) Entrepreneurship (BMBP101), Quant (BHUP203)	02/07/2018
BE	Electrical Engineering	02/07/2018	- Foreign Language(BHUP103) - Liberal/ Creative Arts(BHUP104) - Mini Model through Innovation & Creativity - Communication Skills(BHUL101 - BHUP101) - Ethics& Professional Competencies (BHUP102) - Entrepreneurship (BMBP101), Quant (BHUP203)	02/07/2018
BE	Mechanical	02/07/2018	- Foreign Lan	02/07/2018

	Engineering		<p>guage(BHUP103)</p> <ul style="list-style-type: none"> - Liberal/ Creative Arts(BHUP104) - Mini Model through Innovation & Creativity - Communication Skills(BHUL101 - BHUP101) - Ethics& Professional Competencies (BHUP102) - Entrepreneurship (BMBP101), Quant (BHUP203) 	
BE	Electronics Engineering	02/07/2018	<ul style="list-style-type: none"> - Foreign Language(BHUP103) - Liberal/ Creative Arts(BHUP104) - Mini Model through Innovation & Creativity - Communication Skills(BHUL101 - BHUP101) - Ethics& Professional Competencies (BHUP102) - Entrepreneurship (BMBP101), Quant (BHUP203) 	02/07/2018
BE	Electronics & Telecommunication Engineering	02/07/2018	<ul style="list-style-type: none"> - Foreign Language(BHUP103) - Liberal/ Creative Arts(BHUP104) - Mini Model through Innovation & Creativity - Communication Skills(BHUL101 - BHUP101) - Ethics& Professional Competencies (BHUP102) - Entrepreneurship (BMBP101), 	02/07/2018

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	NIL	20/06/2018

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Civil Engineering	18/06/2018
BE	Electrical Engineering	18/06/2018
BE	Mechanical Engineering	18/06/2018
BE	Electronics Engineering	18/06/2018
BE	Electronics & Telecommunication Engineering	18/06/2018
BE	Computer Science & Engineering	18/06/2018
BE	Information Technology	18/06/2018
Mtech	VLSI	18/06/2018
Mtech	Communication Engineering	18/06/2018
Mtech	CAD / CAM	18/06/2018
Mtech	Integrated Power System	18/06/2018
Mtech	Comp. Sci. & Engineering	18/06/2018
Mtech	Transportation Engineering	18/06/2018
Mtech	Structural Engineering	18/06/2018
Mtech	Power Electronics & Drives	18/06/2018
Mtech	Hea Power & Engineering	18/06/2018
Mtech	Environmental Engineering	18/06/2018
Mtech	Electronics Engineering	18/06/2018

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
AWS Machine learning Tool	03/12/2018	185
AWS Simple Storage Service Primer	03/12/2018	67
Big Data Hadoop	03/12/2018	185
CATIA3D PrintingGlider Design	03/12/2018	151

Cloud Computing	03/12/2018	555
Data Analytics	03/12/2018	76
Environmental Audit:Case study	03/12/2018	150
Estimating Costing	03/12/2018	303
Google Analytics	03/12/2018	185
Hypermesh	03/12/2018	67
IOT Data Analytics	03/12/2018	328
Java Programming Database Management	03/12/2018	50
Latex	03/12/2018	252
Microprocessor Applications	03/12/2018	27
Microsoft Azure AI	03/12/2018	185
Node JS	03/12/2018	185
Property tax Estimation	03/12/2018	150
RC Aircraft and Glider Design	03/12/2018	128
3D Printing and Glider Design	03/12/2018	146
Refrigeration and Air Conditioning CFD (For those students who opted RAC)	03/12/2018	74
Solar	03/12/2018	146
Speech Video Processing	03/12/2018	285
Supercapacitor Application	03/12/2018	145
Total Station	03/12/2018	148
Vaastu concept for building	03/12/2018	150
WaterGEMS	03/12/2018	74
Word Press	03/12/2018	72
Foreign Languages	01/07/2018	1111
Hobby Clubs	03/12/2018	1067
Advance C Programming	03/12/2018	76
Alexa	03/12/2018	185
Android Development	03/12/2018	217
Ansys Hypermesh (For those students who opted CAD)	03/12/2018	73
Antenna Design Simulation	03/12/2018	240
Applications of CAD CAM CAE and Welding	03/12/2018	127

Technology		
Artificial Intelligence Machine Learning	03/12/2018	547
Automobile Engg. Mahindra/Yamaha	03/12/2018	65
AWS Analytics Service Overview	03/12/2018	67
AWS Cloud Practitioner Essentials	03/12/2018	67

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Civil Engineering	140
BE	Electrical Engineering	143
BE	Mechanical Engineering	285
BE	Electronics Engineering	152
BE	Electronics & Telecommunication Engineerinf	287
BE	Computer Science & Engineering	279
BE	Information Technology	73

1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
<p>There is an established mechanism to obtain feed back from all stake holders. The on line feedback is obtained from students twice in a semester. Objective: 1. To assess faculty members for their teaching subjects 2. To improve their teaching learning process 3. To improve Administration Process 4. To improve students Placements Student Feedback on Teaching Learning: Final feedback report is generated and analysis shall be done for each department and individual faculty members. Then on the basis of feedback, faculties those who have less feedback are called for counseling and improvement and further assessment.</p>

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the	Programme	Number of seats	Number of	Students Enrolled
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Programme	Specialization	available	Application received	
Mtech	Transportation Engineering	18	32	17
Mtech	Structural Engineering	24	29	20
Mtech	Communication Engineering	24	17	10
MBA	Master in Business Administration	60	175	60
BE	Civil Engineering	120	202	125
BE	Electrical Engineering	120	185	120
BE	Mechanical Engineering	120	190	127
BE	Electronics Engineering	120	130	120
BE	Electronics & Telecommunication Engineering	180	300	181
BE	Computer Science & Engineering	180	760	188
BE	Information Technology	60	170	63
BE	Mechanical Engineering Second Shift DSY	145	167	148
BE	Electronics & Telecommunication Engineering Second Shift DSY	96	87	57
BE	Computer Science & Engineering Second Shift DSY	99	189	101
Mtech	VLSI	18	23	13
Mtech	Integrated Power System	18	17	13
Mtech	Power Electronics & Drives	24	13	8
Mtech	Comp. Science & Engineering	36	35	14
Mtech	CAD/CAM	18	12	8

Mtech	Heat Power Engineering	18	18	8
Mtech	Environmental Engineering	18	29	13

2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	4965	366	212	45	257

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
239	239	7	67	36	4

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

Institute has well established system in place for students mentoring and counseling through Teacher Guardian, Class Teacher, Faculty Advisor, Psychological Counselor, HoD, Dean Placement, Dean III cell, Dean Academics and Dean Students Activities. A well defined structure identifies slow learners in first year and remedial teaching is carried out for them. Teacher guardian scheme is introduced for the first year students from the inception of the institute to mentor students to solve their academic and personal problems. Faculty advisors guide the students for proper selection of courses under Choice Based Credit System (CBCS). CBCS is well designed giving flexibility for slow learners and fast learners. Dean III cell mentor students to solve their Industry Internship, field project related problems. The institute has a good balance between counseling and mentoring and provides support not only for jobs but has created a good Ecosystem for undertaking entrepreneur, government jobs, campuspreneur, startups and other professional career including research and development.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
5331	257	20.74

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
257	257	0	60	56

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr S B Jaju	Professor	Guest lecture Delivered,

			NonGovernment, National
2019	Dr S B Jaju	Professor	Copyright, Government, National
2019	Dr S B Jaju	Professor	Patent (Filed/Publis hed/Examination), Government, National
2019	Dr S B Jaju	Professor	Session chair/Track Chair, NonGovernment, International
2019	Dr S B Jaju	Professor	Member of Advisory Board/governing Board/BoS, Non Government, State
2018	Dr S B Jaju	Professor	Special Recognition by any Professional society, Non Government, National
2019	Dr. Sunil P. Nangrani	Assistant Professor	Competitions/Hackat hon, Government, National
2019	Dr. Sunil P. Nangrani	Assistant Professor	Competitions/Hackat hon, Government, State
2019	Dr. Sunil P. Nangrani	Assistant Professor	Competitions/Hackat hon, Government, National
2018	Dr. Sunil P. Nangrani	Assistant Professor	SCI paper through 4th International Symposium on Intelligent Systems Technologies and Applications ISTA 2018, Non Government, International
2019	Dr. Sunil P. Nangrani	Assistant Professor	Reviewer, NON GOVERNMENT, International
2019	Miss Priti Rai	Assistant Professor	Session chair/Track Chair, Non Government , International
2018	Dr. Sunil P. Nangrani	Assistant Professor	Member of Advisory Board/governing Board/BoS, Non Government, National

2019	Dr. Sunil P. Nangrani	Assistant Professor	Any other(Please specify in Details of event column), Non Government, International
2019	Dr. Sunil P. Nangrani	Assistant Professor	NPTEL/ SWAYAM/ Coursera and similar Certification, Non Government, International
2019	Dr. Sunil P. Nangrani	Assistant Professor	SCI paper through 4th International Symposium on Intelligent Systems Technologies and Applications ISTA 2018, Non Government, International
2019	Dr. Gopal Sakarkaar	Assistant Professor	Guest lecture Delivered, Non Government , National
2019	Dr. Gopal Sakarkaar	Assistant Professor	Copyright, Government, National
2019	Dr. Gopal Sakarkaar	Assistant Professor	Reviewer, Non Government, International
2019	Indrasen Singh	Assistant Professor	NPTEL/ SWAYAM/ Coursera and similar Certification, Government, National
2019	Sofia Pillai	Assistant Professor	Any other(Please specify in Details of event column), Non Government, International
2019	Sofia Pillai	Assistant Professor	Reviewer, Non government, International
2019	Dr.Vibha Bora	Associate Professor	Patent(Filed/Published/Examination), Government, National
2019	Sofia Pillai	Assistant Professor	Guest lecture Delivered, Non Governmnet, University
2018	Dr.Vibha Bora	Associate Professor	Reviewer, Non

			Government, International
2019	Dr.Vibha Bora	Associate Professor	NPTEL/ SWAYAM/ Coursera and similar Certification, Government, National
2019	Sofia Pillai	Assistant Professor	Guest lecture Delivered, GOVERNMENT, National
2019	Sofia Pillai	Assistant Professor	NPTEL/ SWAYAM/ Coursera and similar Certification, GOVERNMENT, National
2019	Sofia Pillai	Assistant Professor	NPTEL/ SWAYAM/ Coursera and similar Certification, Non government, International
2019	Miss Priti Rai	Assistant Professor	Guest lecture Delivered, Non Government , State
2019	Miss Priti Rai	Assistant Professor	International Seminar Climate Resilience of Agriculture, Technology, and Marketing policy Oral Paper presented/ Invited lecture, Government , University
2019	Miss Priti Rai	Assistant Professor	International Seminar Climate Resilience of Agriculture, Technology, and Marketing policy Oral Paper presented/ Invited lecture, Government , University
2019	Dr. Gopal Sakarkar	Assistant Professor	NPTEL/ SWAYAM/ Coursera and similar Certification, Gov, National
2018	Bhakti Patankar Rajvaidya	Assistant Professor	Best Paper Award, Non Government,

			International
2019	Dr. Pankaj H. Chandankhede	Assistant Professor	Copyright, Government, National
2019	Rajshri Gupta	Assistant Professor	NPTEL/ SWAYAM/ Coursera and similar Certification, Government , National
2019	Rajshri Gupta	Assistant Professor	NPTEL/ SWAYAM/ Coursera and similar Certification, Non Government, International
2019	Pravin Jaronde	Assistant Professor	Evaluator/Examiner/ Auditor, Non Government, University
2018	Pravin Jaronde	Assistant Professor	Evaluator/Examiner/ Auditor, Non Government, University
2019	Pravin Jaronde	Assistant Professor	Evaluator/Examiner/ Auditor, Non Government , University
2019	Pravin Jaronde	Assistant Professor	APaper presentation at IEEE 5th International Conference for Convergence in Technology 2019, Pune, Non Government , International
2019	Dr P B NAGARNAIK	Professor	Member Board of Studies, Thakur College of Engineering, Mumbai, Private, State
2018	Pravin Jaronde	Assistant Professor	NPTEL/ SWAYAM/ Coursera and similar Certification, Government, National
2019	Mr. Ganesh Khekare	Assistant Professor	NPTEL/ SWAYAM/ Coursera and similar Certification, Government,

			National
2019	Dr. Pankaj H. Chandankhede	Assistant Professor	Copyright, GOVERNMENT, National
2019	Mr. Vivek W Khond	Assistant Professor	Reviewer, Non Government, International
2019	Mr. Abhijit S. Titarmare	Assistant Professor	NPTEL/ SWAYAM/ Coursera and similar Certification, Government, National
2019	Ms. Yogita Deshmukh	Assistant Professor	Competitions/Hackathon, Government, National
2019	Miss Priti Rai	Assistant Professor	Young Scientist Award, University of Allahabad, FRCER RSKSEPS, Prayagraj, Government, International
2019	Mrs. Achamma Thomas	Assistant Professor	NPTEL/ SWAYAM/ Coursera and similar Certification, Governemnt, National
2019	Mrs. Archana R. Raut	Assistant Professor	NPTEL/ SWAYAM/ Coursera and similar Certification, Government, National
2019	Dr. Urmila Shrawankar	Associate Professor	Patent (Filed/Published/Examination), Non Government, National
2019	Dr. Urmila Shrawankar	Associate Professor	Patent (Filed/Published/Examination), Non Government, National
2019	Dr. Urmila Shrawankar	Associate Professor	Member of LEC, selection panel of University or any other organization, University, University
2019	Mrs. Sonali Nimbhorkar	Assistant Professor	NPTEL/ SWAYAM/ Coursera and similar Certification, Government,

			National
2019	Mrs. Sonali Joshi	Assistant Professor	Competitions/Hackathon, Government, State
2019	Mrs. Mangala S. Madankar	Assistant Professor	NPTEL/ SWAYAM/ Coursera and similar Certification, Government, National
2019	Mrs. Sofia Pillai	Assistant Professor	NPTEL/ SWAYAM/ Coursera and similar Certification, Government, National
2019	Mrs. Mangala S. Madankar	Assistant Professor	NPTEL/ SWAYAM/ Coursera and similar Certification, Government, National
2019	Mrs. Sofia Pillai	Assistant Professor	Copyright, GOVERNMENT, National
2019	Ms. Dipti Theng	Assistant Professor	NPTEL/ SWAYAM/ Coursera and similar Certification, Government, National
2019	Mrs. Sofia Pillai	Assistant Professor	Research Grants Received, NON GOVERNMENT, International
2019	Mrs. Sofia Pillai	Assistant Professor	FDP, GOVERNMENT, National
2019	Girish R Talmale	Assistant Professor	NPTEL/ SWAYAM/ Coursera and similar Certification, Non Government, International
2019	Dr. Vijaya D. Raut	Associate Professor	NPTEL/ SWAYAM/ Coursera and similar Certification, Government, National
2019	Janmejy Vijaykumar Shukla	Assistant Professor	Guest lecture Delivered, Government, State
2019	Janmejy Vijaykumar	Assistant Professor	Research Paper

	Shukla		published in "International Journal of Research in Engineering, IT and Social Sciences (IJREISS), Non Government, International
2018	Dr S B Jaju	Professor	Competitions/Hackat hon, Non Government, National
2019	Dr S B Jaju	Professor	Competitions/Hackat hon, Non Government, National
2019	Dr. S. B. Jaju	Professor	Competitions/Hackat hon, Non Government, National
2019	Dr S B Jaju	Professor	Session chair/Track Chair, Non Government , International
2018	Dr S B Jaju	Professor	Research Grants Received, Government, National
2018	Dr S B Jaju	Professor	Evaluator/Examiner/ Auditor, Government, National
2019	Dr S B Jaju	Professor	Guest lecture Delivered, Government, National

2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	411661210, 411629310, 411637610, 411637210, 411624210, 411624610, 411619110	I	24/11/2018	30/11/2018
BE	411661210, 411629310, 411637610,	III/V/VII	24/10/2018	31/10/2018

	411637210, 411624210, 411624610, 411619110			
BE	411661210, 411629310, 411637610, 411637210, 411624210, 411624610, 411619110	II/IV/VI/VIII	24/04/2019	30/04/2019
Mtech	411635910, 411637510, 411660410, 411629610, 411624210, 411619410, 411621210	I	24/11/2018	30/11/2018
Mtech	411635910, 411637510, 411660410, 411629610, 411624210, 411619410, 411621210	III	24/10/2018	31/10/2018
Mtech	411635910, 411637510, 411660410, 411629610, 411624210, 411619410, 411621210	II/IV	24/04/2019	30/04/2019
MBA	411610110	I	24/11/2018	30/11/2018
MBA	411610110	III	24/10/2018	31/10/2018
MBA	411610110	II/IV	24/04/2018	30/04/2018
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
57	5597	1.02

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://www.ghrce.raisoni.net/allcourse.php>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year	Number of students passed in final year examination	Pass Percentage
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			examination		
411619110	BE	Civil Engineering	156	120	76.92
411624210	BE	Computer Science & Engg.	289	266	92.04
411629310	BE	Electrical Engg.	156	123	78.85
411637610	BE	Electronics Engineering	162	126	77.78
411637210	BE	Electronics & Tele. Engg.	293	256	87.37
411624610	BE	Information Technology	76	60	78.94
411661210	BE	Mechanical Engg	268	233	86.94
411619410	Mtech	Transportation Engg.	18	18	100
411621210	Mtech	Structural Engg.	24	24	100
411624210	Mtech	Computer Science & Engg.	14	14	100
411629610	Mtech	Integrated Power System	8	8	100
411635910	Mtech	VLSI	12	12	100
411637510	Mtech	Communication Engg.	3	3	100
411660410	Mtech	CAD / CAM	5	5	100
411610110	MBA	MBA	50	50	100
411620110	Mtech	Environmental Engg.	15	15	100
411690210	Mtech	Power Electronics & Drives	11	11	100
411637610	Mtech	Electronics Engg.	8	8	100
411659610	Mtech	Heat Power Engg.	5	5	100

2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://114.143.72.75/owncloud/index.php/s/m4KRxgK83WT43dD>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

Yes

Name of the teacher getting seed money

Dr. N. P. Awate

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

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Nil	NA	20/06/2018	NA
International	Nil	NA	20/06/2018	NA

3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
No Data Entered/Not Applicable !!!				
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3.2.2 – The institution provides seed money to its teachers for research,

284065

3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Product Development Workshop	Electronics Tele. Engg.	24/12/2018
Product Development Workshop	Computer Science Engg,	01/01/2019
Product Development Workshop	Electrical Engg.	05/01/2019
Product Development Workshop	Electronics Engg.	16/01/2019
Product Development Workshop	Civil Engg.	21/01/2019
Product Development Workshop	Mechanical Engg.	16/01/2019
Product Development Workshop	M.Tech Transportation Engineering	19/12/2018
Product Development Workshop	M.Tech Power Electronics and Drive	19/12/2018
Product Development	M.Tech Communication	19/12/2018

Workshop	Engineering	
Product Development Workshop	M.Tech Computer Science and Engineering	19/12/2018
Product Development Workshop	M.Tech Environmental Engineering	19/12/2018
Product Development Workshop	M.Tech Structural Engineering	19/12/2018
Product Development Workshop	M.Tech CAD/CAM	19/12/2018
Product Development Workshop	M. Tech. Heat Power Engg	19/12/2018
Product Development Workshop	M. Tech. VLSI	19/12/2018

3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Vidarbha Industrial Association: Lady Entrepreneur Wing (VIALEW) Best Startup Idea	Nikita Kumari	Vidarbha Industrial Association: Lady Entrepreneur Wing (VIALEW) Best Startup Idea	03/10/2018	National
Startup Showcase at Techniche IITGuwahati	Nikita Kumari and Chinmay Naik	Startup Showcase at Techniche IITGuwahati	02/09/2019	National
EmergE2k18, iCube, eCell IIMShillong	Chinmay Naik, Nikita Kumari and Prabodh Mahajan	EmergE2k18, iCube, eCell IIMShillong	18/11/2018	National
10th edition of Inspired Leadership Conference, by School of Inspired Leadership (SOIL)	Chinmay Naik, Prabodh Mahajan	10th edition of Inspired Leadership Conference, by School of Inspired Leadership (SOIL)	27/12/2018	National
Ground Reality 2019: BPlan Competition	Chinmay Naik, Nikita Kumari	Ground Reality 2019: BPlan Competition	17/02/2019	National
HUNAR 2.0 National Final	Chinmay Naik, Prabodh Mahajan	HUNAR 2.0 National Final	29/01/2019	National
Develop a mobile based application for proactive and early indemnification of person with	Rahul Manusumare Vipin Mankar, Tushar Dahule, Yash Parashar, Lokesh Agrawal Sankul Anmadwar	SKY Hackathon 2018	27/08/2018	National

disability to ensure access to necessary medical care and entitlements				
Application for The competitive analysis real time prototype on natural disasters.	Nirbhay Bhuyar Nitesh Singh, Ravi Kushwaha, Ketan Paunikar Jimit Bhatt, Kalpak Bansod	SKY Hackathon 2018	27/08/2018	National
Develop application to Provide Essential risk based triaging facilitate pre post natal preventive care.	Chinmaya Naik, Megha Gupta Megha Thakur, Nikita Kumari	SKY Hackathon 2018	27/08/2018	National
Automatic Solar Grass Cutter	Deepika Khannade Mayuri Dhoke	Rural Innovators Startup Conclave (RISC)2018	30/08/2018	National
Solar Lid based U.V Water Purifier	Dr. Sunil Nagrani	Rural Innovators Startup Conclave (RISC)2018	30/08/2018	Natiomnal
International Hackathon Ageon	Karan Bagle Rishi Golchha	International Hackathon Ageon	20/09/2018	International
ARMADCC Competition	Shyam Kashiwar Rohan Nalamwar	ARMADCC Competition	22/09/2018	National
Air Quality Monitoring	1) Sarang Gadhav 2) Shubham Jadhav 3)Vaishnavi Gohad 4)Vedanti Gampawa	CII's 1st edition of IndNX 4.0 - "Smart Industry Hackathon"	28/09/2018	State level
Remote Monitoring of Sensor Data from Machine	1) Rohan Deshpande 2) Ayush Gaikwad 3) Yash Fulzele 4) Himanshu Chopde	CII's 1st edition of IndNX 4.0 - "Smart Industry Hackathon", 28th Sept 2018	28/09/2018	State level
Real time temperature monitoring	1) Shraddha Kshirsagar 2) Vineet Likhar 3) Aditya Jagadeesh 4) Tejashree Rajkarne	CII's 1st edition of IndNX 4.0 - "Smart Industry Hackathon", 28th Sept 2018	28/09/2018	State level

Kart Knights	TaruSekhar Das SanketBarapatre SwapnilUmredkar Ajay Gakare Amar Nalamwar AnuragJamkhute HimanshuNandard hane Shivam Pure Aman Sharma Ganesh Rahate Prince Choudary Pratik Narnaware AnujAgrahari KetanKannao Amit Sharma Danish Khan RohanWamane SarangGadh	SKDC , 18th Sept 2018	18/09/2018	National
Design Development of Weighing and Packaging system for different materials	Mr. Aniket Bhende Mr.Ashish Chetule	India International Festival 2018 (IIFS) , Organized at Lucknow during 68 Oct 2018	06/10/2018	International
CYBERKNIGHT5	Savneet Kaur Chhatwal Vaibhav Ramnarayan Pathak Krushn Tukaram Dayshmookh	Smart India Hackathon, India - Singapore Hackathon 2018	17/10/2018	International
Team Godwait	Nilesh Awate	Design Challenge 2018(SAEISSADC 2018) Bharat Formula	25/10/2018	National
Education for Hearing Disabled/ Specially Abled children	Mr. Chinmay Naik	"Ideathon" organized by Bihar Government.	23/10/2018	National
Human Power Vehicle	Nilesh Awate	ASME Engineering Fest(EFest) Asia Pacific 2019	08/01/2019	International
Continuous Monitoring of Gasses inside of Mines	Sarang R. Gadhawe	University Level AVISHKAR 18 cometition, 35 Jan 2019	03/01/2019	State
Multifunctional Material Handling Device	Aditya Pannase	University Level AVISHKAR 18 cometition,	03/01/2019	State

		35 Jan 2019		
Investigations in Performance of Thermoacoustic Refrigeration System	Ashish Raut	University Level AVISHKAR 18 competition, 35 Jan 2019	03/01/2019	State
Detection of prakruti of an indivisual using Sensor system and AI	Sonali Joshi	University Level AVISHKAR 18 competition, 35 Jan 2019	03/01/2019	State
Automated Calling Resource Management System for Cancer Hospital	Prof. S.V. Bhalerao	University Level AVISHKAR 18 competition, 35 Jan 2019	03/01/2019	State
Solar Based UV Water Purifier	Dr. S.Nagrani	University Level AVISHKAR 18 competition, 35 Jan 2019	03/01/2019	State
Detection of prakruti of an indivisual using Sensor system and AI	Sonali Joshi	State Level AVISHKAR 18 competition, 1518 Jan 2019, Gadchiroli M.S	15/01/2019	National
Multifunctional Material Handling Devices	Aditya Pannase	Raman Festival of Innovation 2019, from 1517 Jan 2019	15/01/2019	National
Aeromodelling gliding competition	1. Sarang Gadhawe 2. Swapnil umredkar 3. Ganesh Rahate 4. Amar Nalamwar 5. Ankush Lanjewar 6. Akhilesh Ramteke	ASME Efest Asia Pacific at VIT Vellore, India	15/01/2019	National
Multifunctional Material Handling Devices	Aditya Pannase	Mayor Innovation Award 2019, 3rd March 2019	03/03/2019	National
Multifunctional Material Handling Devices	Aditya Pannase	Rural Entrepreneurs Meet 2019, Date 06th March 2019	06/03/2019	National
Design and Development of 3D printed Prosthetic Hand	Mr. Yash Tichkule, Ms. Vaishnavi Gupta, Ms. Raksha Bhonde	VISAI2019 at Veltech University , Chennai	20/03/2019	International

Go Kart	Nayan Gakare and Team	Bharat Formula Karting	20/03/2019	National
Thermoacoustic Refrigeration.	Rushikesh Raut, Ritesh Kashyap	Symbiosis Institute of Technology (SIT), Pune	22/03/2019	National
Team Capsul	Minakshi Khatri GIRISH BISANE Karan bagle Siddharth mohite Anuj shukla Athrav Gurav	Smart India Hackathon (software edition) 2019, 23 March 2019	02/03/2019	National
Mayor Innovation Award 2019, 3rd March 2019	Ashish Raut	Mayor Innovation Award 2019, 3rd March 2019	03/03/2019	National
Mayor Innovation Award 2019, 3rd March 2019	Aman Purohit	Mayor Innovation Award 2019, 3rd March 2019	03/03/2018	National
Air Wingers	Air Wingers	IIT Kanpur, Boeing National Aeromodelling Festival , 7 to 10 March 2019	07/03/2019	National
National level Business Plan Competition during IGNITE3.0	Thakur	National level Business Plan Competition during IGNITE3.0	25/08/2018	National
Pitch your product IITKanpur	Chinmay Naik	Pitch your product IITKanpur	25/08/2018	National

3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
1	G H raisoni Incubation Centre	GHR Labs and Research Centre, Nagpur	Bellatrix Infotech	Market and Product Marketing	02/04/2019
1	G H raisoni Incubation Centre	GHR Labs and Research Centre, Nagpur	Bliscare	Product Development	06/01/2019
1	G H raisoni Incubation Centre	GHR Labs and Research Centre, Nagpur	World 4.0	Industry IoT Solutions	13/03/2019
1	G H raisoni Incubation Centre	GHR Labs and Research Centre,	Rostail Technologist Pvt. Ltd.	ECOMMERCE	04/01/2019

3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Mechanical Engineering	6
Electronics Engineering	15
Computer Science Engineering	9
Electrical Engineering	6
Civil Engineering	2

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

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Civil	1	0.5
International	Civil Engineering	2	1
International	Computer Science Engineering	5	4.37
International	Electrical Engineering	5	0.6
International	Electronics Telecommunication	6	4.49
International	Electronics Engineering	27	4.45
International	First Year Engineering	7	1.36
International	Information Technology	9	1
International	MBA	5	1.25
International	Mechanical Engineering	15	1.15

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

Department	Number of Publication
Civil Engineering	66
Electrical Engineering	26
Computer Science Engineering	25
Electronics Engineering	44
Electronics Telecommunication	21
First Year Engineering	21
Information Technology	24
MBA	3
Mechanical Engineering	37

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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
SignoSpeech - An Assistive System for Deaf Dumb	Published	21010143	28/09/2018
A wireless portable device for visually impaired people which converts Devnagari text to voice	Published	21009723	28/09/2018
Hybrid "Battery SuperCapacitor"based Efficient Electric Vehicle drive with regenerative braking	Published	21009724	28/09/2018
Multiple Fruit Grading Machine	Published	21010139	28/09/2018
Threephase single switch PWM controlled Induction motor drive	Published	21010140	28/09/2018
Design of adsorption refrigeration system from waste heat	Published	21010141	28/09/2018
Dynamic Cluster Based Real Time Scheduler in MultiCore System	Published	21010142	28/09/2018
Single Switch Improved Power Factor High Frequency Switched Single Phase Induction Motor Control for Fan and Blowers	Published	21010143	28/09/2018
Biocoal cake making machine	Published	21009712	28/09/2018
MultiLanguage Text Image to English Text Converter	Published	21009713	28/09/2018
A Mixer which combines RF signal and LO signal	Published	21009714	28/09/2018
Process Flow and Mechanical Modeling of RF MicroElectroM	Published	21009714	28/09/2018

mechanical System (MEMS) Capacitive Switch			
FBAR MEMS filter with high quality factor for RF application	Published	21009716	28/09/2018
Process Text to Flowchart Convertor	Published	21009717	28/09/2018
Handwriting I/O System	Published	21009718	28/09/2018
ParetoOptimal Green Consolidator for Cloud Datacenter	Published	21009719	28/09/2018
Design of Double GateFinFET with Parasitic Capacitance reduction using low k spacer	Published	21009720	28/09/2018
Design of NOC Based Many Core Parallel Processing Platform	Published	21009721	28/09/2018
Psychosomatic Analyzer System for Academic performance Enhancement	Published	21009722	28/09/2018
Harmonics reduction by Space vector based Static synchronous compensator (STATCOM) in transmission line	Published	21010145	28/09/2018
Power quality assessment of Space vector based Static synchronous Series Compensator (SSSC)	Published	21010567	28/09/2018
Real Time Application for Green Bus Transportation System	Published	21010568	28/09/2018
Automatic Leafy Vegetable Plucker Machine	Published	21010569	28/09/2018
Design and Development of tiles and roof sheet making machine by using	Published	21010570	28/09/2018

fly ash and recycled plastic wastes			
Automation and Control of Multiple Robots for Industry Application	Published	21010571	28/09/2018
A reconfigurable FFT/IFFT processor for OFDM system using advance algorithm	Published	21010572	28/09/2018
LabVIEW based Implementation of Image Denoising Algorithm using Wavelet Transform	Published	21010572	28/09/2018
Multitouch Table Using Surface Computing	Published	21010574	28/09/2018
Development of Solar Still assisted Salinity Gradient Solar Pond with Lateral and Longitudinal Heat Exchanger for Distillation	Published	21010574	28/09/2018
VBAT(Voice Based Automated Transport) Enquiry System for Visually Disabled, "Drishti"	Published	21010576	28/09/2018
IOT Based Wireless Garbage Management System	Published	21010576	28/09/2018
Design of an inductor smoothly variable over its full range,responding to an Analog or Digital command	Published	21010576	28/09/2018
Design of an inductor smoothly variable over its full range,responding to an Analog or Digital command	Published	21010630	28/09/2018
Oldage helping system	Published	21010631	28/09/2018
RTO management	Published	21010632	28/09/2018

system			
Sign Language Vocalizer for deaf and dumb	Published	21010633	28/09/2018
GSM Based Bank Locker Security System	Published	21010633	28/09/2018
Design and development of rice transplanter machine	Published	21010635	28/09/2018
Water Quality Monitoring System using IOT	Published	21010636	28/09/2018
Indexed ISM band Transreceiver Antenna Module Controller	Published	21010637	28/09/2018
ISM band Portable Channel strength indicator	Published	21010637	28/09/2018
IAccess Via LiFi Technolog	Published	21010639	28/09/2018
SpellinAir: FingerSpelling in Air Recognition System	Published	21010640	28/09/2018
Cascaded solar thermal cavity receiver	Published	21010641	28/09/2018
Power quality assessment of Space vector based Unified Power Flow Controller (UPFC) applied on transmission line	Published	21010642	28/09/2018
Industrial Easy Load Transport system	Published	21010643	28/09/2018
Design and optimization of thermo acoustic refrigeration System	Published	21010644	28/09/2018
Android Based Grass Cutter Robot	Published	21010645	28/09/2018
Automatic Challan System	Published	21010646	28/09/2018

3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
No Data Entered/Not Applicable !!!						
View File						

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
No Data Entered/Not Applicable !!!						
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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	0	0	2	597

3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Electronics Telecommunications Engineering	Hardware Software Codesigned Low Latency AESRC4 Cryptosystem	JDM Tech Semiconductor Pvt Ltd., 202, 2nd floor, Abhinav Arcade, S Ambazari Road, Abhyankar Nagar, Nagpur	70000
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Electrical Mechanical Engineering Department	Mechatronics	Mahindra Mahindra Ltd. Nagpur	882460	119
Electronics Telecommunication Engineering	Embedded C Programming	Mahindra Mahindra Ltd. Nagpur	14000	16

3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
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4th International Yoga Day celebration	AICTE/ RTMNU	121	300
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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
AVISHKAR2018	University Winners	RTMNU, Nagpur	4
RULAR TRANSFORMATOR AWARD	Won National Award Named as	Tata Institute of Social Science, Tuljapur	1
Project Competition Pro Tech2019	Got 2nd Rank	Symbiosis Institute of Technology (SIT), Pune	2
Aeromodeling Competition AEIROLIFT2019,	First Prize Rs.12,000/ Cash in National Level	BOEING NATIONAL AEROMODELLING FESTIVAL	3
Quiz Competition	Stood in top 15 out of 50 participating teams from all over India Written round	Sweden India Quiz Mumbai	6
Badminton	Runner up (Zone Level)	RTMNU, Nagpur	2
Start Up Yatra And Ventura International Bmodel Competition	Qualified for level2	VNIT Nagpur	4
Debate competition on the topic "Video gamesThe worst invention of 20th Century"	Got the prize as Best Speaker, Stood First in Debate and First Consolation prize too.	Priydarshini College of Engineering, Nagpur	5
Football Tournament	Winners	SBJIT Nagpur	3
TEEPYER 19	Got first prize of Rs.12000/ cash	MIT Pune	2
Abhuday	Reach upto final round and represent under Top 30 team at All India level	IIT Bombay	5
Value Creation Low cost housing	Winner	YCCE, Nagpur	8
RANG RACE	Winner	LIT Nagpur	3
PUBG	Winner	VNIT, Nagpur	33
Smart India Hackathon 2019 Software Edition	Winner	AICTE	6
SKY Hackathon	Runner Up	Chhattisgarh Sanchar Kranti	14

		Yojana (CG SKY)	
NEEV 2019 Carrom Doubles	Runnerup	RCOEM,Nagpur	2
Autosparx	Winner	Govt Poly, Nagpur	3
Aegon Hackathon	1 Group attended 4th Round	Mumbai	18
KPIT Sparkle	2 Groups attending Prototype Designing Round	KPIT	33
IEEEEXTREME	4 Groups got all India rank under 60	IEEE	10
Hardware Smart Vehicle	Shortlisted for 2nd round	AICTE	6
IEEE Xtreme	Ranking under 500	IEEE	10
Smart India Hackathon Hardware	Winner	AICTE	28
Bharat formula karting Championship	second rank in virtual round with prize money Rs.20000/ Best CAE award Cash Rs. 10,000 and trophy Best Wheel Dismantling award cash Prize Rs. 5,000 and trophy Design validation got Second Rank with cash Prize of Rs. 10,000 and Trophy Overall Rankin	CADD Technologies School of Design Pvt. Ltd. BFKCT	25
IndNX 4.0	4th 6th rank from all over Maharashtra	Tata Consultancy Services	4
ASME EFest "AEROMANIA"	Won second Prize Rs. 15000/ Cash, Certificate, Trophy	American Society of Mechanical Engineers, VIT Vilore	21
International Project Competition VISAI2019	First prize with Cash Prize of Rs. 10000.00	Vel Tech, Chennai	7
Mayor Innovation Award 2019	Won 2nd Prize and Won Cash Prize RS. 11000/	MNC, Nagpur	1

3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities

National Service Scheme	AICTE/ RTMNU	4th International Yoga Day celebration	121	300
National Service Scheme	DTE	Tree Plantation on 4th August 2018 at G. H. Rasoni College of Engineering Nagpur	50	70
National Service Scheme	GHRCE	Traffic Awareness Camp at Variety Square Nagpur by NSS Volunteers of G. H. Rasoni College of Engineering Nagpur on 08/08/2018	1	19
National Service Scheme	GHRCE	Blood donation camp conducted by NSS at G. H. Rasoni College of Engineering Nagpur on 14/08/2018	3	160
National Service Scheme	BDUI	Installation of Rakhi Stall at GHRCE, Nagpur on 24818	1	10
National Service Scheme	AICTE	Swami Vivekananda's Historic Speech reading	1	350
National Service Scheme	AICTE	Campus cleaning Activity at GHRCE, Nagpur on 290918	3	40
National Service Scheme	LMH	Blood Donation Awareness Camp by Team LMH at GHRCE, Nagpur on 11018	2	200
National Service Scheme	AICTE	Road Cleaning Sweeping Activity at GHRCE, Nagpur on 021018	80	40
National Service Scheme	DTE	Rashtriya Ekta Diwas Celebration at G. H. Rasoni	1	140

		College of Engineering, Nagpur on 31st October 2018		
National Service Scheme	RTMNU	Participation in Constitution rally and reading of preamble of constitution at RTM University campus on 26/11/2018	1	12
National Service Scheme	RTMNU	Observance of Human Rights Day	1	57
National Service Scheme	AICTE	Swacchata Rally at Isasani Village , Hingana, Nagpur	1	45
National Service Scheme	AICTE	Swacchata Activity at ZP School Bhimnagar Hingana Nagpur	1	45
National Service Scheme	GHRCE	Gender Equality Awareness Rally conducted at Sukali (Gupchup) Village Hingna, Nagpur by ETRX NSS Cell of G. H. Raisoni College of Engineering, Nagpur	1	41
National Service Scheme	GHRCE	Elocution Competition on Gender Equality at Vidya Sadhana Convent High School Jr. College Jaitala, Nagpur	4	250
National Service Scheme	AICTE	Celebration of National Youth Day on behalf of Swami Vivekananda Jayanti and Rajmata Jijau Jayanti Mahotsav	1	76

National Service Scheme	AICTE	NSS Volunteers Attended A Discussion on Gramsabha to Rashtrasabha by Dr. Chittaranjan held by Matru Sewa Sangh Samajkarya Sanstha Nagpur	1	6
National Service Scheme	AICTE	Speech and Discussion on Gandhian Thoughts by Dr. Chittaranjan, Exconsultant, Planning Commission on behalf of 150th Birth Anniversary Year of Rashtrapita Mahatma Gandhi	2	156
National Service Scheme	VEGAN OUTREACH, A NON PROFIT NGO	Awareness Camp on Environment, Health, Animal and eating habits	2	250
National Service Scheme	TEHSIL, OFFICE HINGNA	National Voter Day Celebration at GHRCE on 25th January 2019	3	300
National Service Scheme	SRPF HINGNA	Celebration of Republic Day with SRPF Jawaan at Hingana by distribution of handmade greetings on 26th January 2019	1	35
National Service Scheme	AICTE	Online Registration camp for Voting under Lokshahi Pandharwada at GHRCE	3	125
National Service Scheme	AICTE	Wall Painting and Rangoli Making Activity conducted at	2	50

		GHRCE Under 150th Birth Anniversary year of Rashtrapita Mahatma Gandhi		
National Service Scheme	RTMNU	NSS Volunteers of GHRCE Helped in Pulse Polio Immunization Camp in Nagpur City	1	11
National Service Scheme	AICTE	Youth Group Meeting under 'Poshan Pakhwada' conducted by NSS unit of GHRCE, Nagpur	1	30
National Service Scheme	AICTE	Awareness activity on Poshan under Poshan Pakhwada at ZP School Rajiv Nagar, Hingana on 19 March 2019	1	30
National Service Scheme	AICTE	Poshan Rally at Rajiv Nagar Hingana by Team NSS of GHRCE, Nagpur	1	30
National Service Scheme	AICTE	Swachata Rally at Rajiv Nagar Hingana	1	30
National Service Scheme	RTMNU	NSS volunteers given assistance to handicapped voters in election	2	8

3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Credit Transfer Scheme	29	Admission Fees	1

3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry	Duration From	Duration To	Participant

		/research lab with contact details			
Academic Compliance	Six Months Internship	ISRO National Remote Sensing Centre, CRF colony, Balanagar, Hyderabad 500042 ,gmou treach@nrsc.gov.in	15/06/2018	15/04/2019	3
View File					

3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
No Data Entered/Not Applicable !!!			
View File			

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
439.82	364.92

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with LCD facilities	Newly Added
Video Centre	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Others	Newly Added

4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Symphonic	Fully	5.5	2000

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	46796	17053307	323	46290	47119	17099597
Reference	5746	6360935	6	35963	5752	6396898

Books						
e-Books	721	213141	0	0	721	213141
Journals	152	880978	51	776257	203	1657235
e-Journals	12830	5616123	604	4802354	13434	10418477
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NIL	NA	NA	20/06/2018

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MGBPS)	Others
Existing	1424	43	1424	1	1	1	9	155	
Added							1		
Total	1424	43	1424	1	1	1	10	155	0

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

155 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Impartus Video lectures recording facility	http://a.impartus.com/login/#/

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
568.39	504	167.53	148.53

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

Institute has state of art infrastructural facilities to support teaching learning, research and administrative services. The college campus is spread over 6.72 acres with multistoried building. College has sufficient numbers of class rooms, studio rooms, seminar rooms, conference hall and laboratories. There are separate departmental libraries with Centralized library having reading hall for 220 students. Institute has well equipped language lab for improving communication skills. Laptops with internet dongle to all faculty members are provided to improve the teaching. Auditorium with

1000 capacity, two mini Auditoriums of capacity 200350 are created with facility of video conferencing. Renewable energy (solar), solar plant is established with 120 panels of 30 KVA and another 72 panels for 20 KVA. Centralized Computer Center is provided with 300 new apple machines. Software for online inhouse resources booking facility has been developed to optimally utilize the physical resources. Campuswide Networking WiFi and CCTV facility is available in the college. A well-equipped big Medical hospital is nearer to college campus, institute has Doctor on regular visit. College has its own Ambulance. To accommodate the students coming from distant places, the college has two boys and three girls' hostels. Transportation facilities are also provided for student and staff. Bank and ATM facilities are also available in college campus. Other facilities include clean drinking Water with RO system staff Canteen, student canteen, girls and boy's rest room, womens rest room, telephone, sport room and Aircooled Gymnasium are available in college campus. It has innovation gallery wherein creative and patented projects are displayed. GHRCE Incubation Center was set up in 2015 to foster entrepreneurship and promote innovation.

<http://www.ghrce.raisoni.net>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
No Data Entered/Not Applicable !!!			
View File			

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Communication Skills (Empower)	18/06/2019	1980	Cambridge Council
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Campus Recruitment Trainings	0	1000	0	828
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
128	128	45

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
119	1343	560	43	1343	267
No file uploaded.					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	18	BE	IT, ETRX, CIV	NIL	NIL
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
CAT	1
No file uploaded.	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Cultural	Institute	2478
Technical	Institute	807
NSS	Institute	3343
Sports	University	200
Department Forum	Institute	1500
Ekkashara: A Ganesh Festival	Institute	2000
Abhiyudya : Independence Day Celebration	National Level	2500
Annual Tech. Fest (Antaragani/Technorion/ Parakram/ Spandan)	Institute	5018
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5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	South Asian Chess Comp	International	1	0	2015AETX0101056	Swapnil Lingayat

	etition, Jammu Kashmir					
2019	Soccer homeless worldcup 2018 at Oslo, Norway	Internatio nal	1	0	2016DIFT01 03073	Juhi Agarkar
2019	Indo-Nepal Tournament at Nepal	Internatio nal	1	0	2015AETX01 00019	Anniruddha Shandilya
2019	Open Taekwondo Championsh ip 2018	Internatio nal	1	0	2016DELE01 03148	Kritika Gayakwad
2019	Swimming	National	1	0	2015AMEC01 00018	Yugank Pim palshende
2019	Throw Ball	National	1	0	2016ACSC01 17210	Ankita Shr ivastava
2019	Handball	National	1	0	2016AETC01 17107	VaibhavWan khede
2019	Table Tennis	National	1	0	2016ACSC01 17238	Kalpak Bansod

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

• Examination Timetable is prepared by CR's / students. • Students are in departmental BOS, Academic Council and Governing Body: Inputs are taken to frame scheme and syllabus • Students Charter • SRC • Students Placement Committee • Students on Forum bodies • Professional socites students chapters • To work for Activity Planning (Even /Odd semesters) • Selection of Different Council/Body : (As a SRC/NSS/Sports) • Formation of Different Activity Clubs : (As a Hobby Module) • Formation for Departmental Forum/Workshop/Guest Lecturer • Activity conducted by outside origination in GHRCE : (Institute Branding) • Schedule activity for different Domain/Platform o Cultural/Technical : (Annual Tech Fest Saturday activity) o National Service Scheme (Activity for even/Odd sem) o Sport activity (Indoor/Outdoor/University/National International Level o Raga -Music Club (Instrument playing/singing activity) • Selected Domain Specific Events (Technical), Cultural Events and Sports Activities, work as in charges for Technical, Cultural Sport Activity. Prepared List of Different Events under Cultural/Technical/Sports program is selected/Finalized. • Finalized the different Events Heads of Cultural/Technical/Sports • Prepared schedule for Cultural/Technical/Sports Events, Selection of Venue as per the Date and events schedule. Preparation and execution of all the cultural, technical and sports events carried throughout the academic session. o Abhudaya o Ekakshara o Independence day o Antaragni , Technorion parakram o And many more events under college level. National level. • The student coordinators for the hobby clubs are SRC students who help in making hobby clubs execute their teaching plans. All the major events carried out by college are coordinated and helping in executing the events like admission process, outdoor activities related with other organizations are done with the involvement of SRC. • Fresh Face content by Maharashtra Times Nagpur • A Talent show for students ny Radio Mirchi (98.8) Nagpur • DJ Hamara College Tumara by Radio City (93.1) - Nagpur • Events Promotion on social Media and Postage Through

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

G H Raisoni Alumni Foundation (GHRAF) has been created to provide a platform for its alumni base of 45000 and to connect, engage and benefit the Raisoni alumni, students and staff. It provides core programs such as reunions, gettogethers, alumni directory, informational publications, career support services, continued learning opportunities, administration of benefits and other fundamental services to Alumni. Key Objectives of G.H.Raisoni Alumni Foundation • Connect Alumni • Engage Alumni • Benefit Alumni How will GHRAF fulfill its objectives? • Social and Professional Networking with fellow Alumni, RGI students faculty • Alumni groups in Social Media (Facebook, LinkedIn) • Alumni Directory, Chapters, Awards • Events, Reunions, get together, Oncampus visits • Career Support Services, Career Counselling, Headhunting Services • Online Job Board for recruiting talent • Entrepreneurial Support, Job discussions, Knowledge sharing discussions • Continued Education Opportunities, Targeted Skills Training Workshops • Library services • Subscriptions Discounts such as Fee reductions for Sibling / Spouse / Wards • Newsletters/Magazines • Alumni access to GHRAF Lounges / Business Centers, Holiday homes etc • Volunteering Mentoring Programs

5.4.2 – No. of registered Alumni:

12172

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

Career Guidance Entrepreneurship Guidance Interaction with Head and Faculties of Department Internship and Placement Guidance Project Guidance

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT**6.1 – Institutional Vision and Leadership**

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

1. HoDs, Deans Cell Incharges Structures are followed 2. Stake holders are involved in overall development of the Institute The Institution has constituted various committees/ faculty members to look after various issues and effective Governance and participative management. Followings are the various organizational arrangements made by the institute: • Two Deputy Directors • Dean Academics • Dean Quality Assurance Planning • Dean RD • Registrar • Dean Post Graduate Studies • Dean Placement and Alumni • Dean III • Dean Students Activities • Dean Administration • Controller of Examination • Internal Quality Assurance Cell • Associate Deans • In charge Academic Weaker Cell • In charge Career Counseling • In charge Faculty Training • System Analyst • Heads of Department • Class teachers • Teacher Guardians • Office bearers of Forum and various professional societies • Class representatives Apart from this, other committees are constituted to take care of specific issues. • Examination Committee • Library Committee, • Grievances committee • Women Cell • Finance Committee etc. • AntiRagging Committee • Sexual Harassment Committee.

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

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	<p>The Institute has embraced Outcome Based Education (OBE) approach wherein the Program Outcomes (POs) for each program offered by the Institute and the Course Outcomes (COs) for every course taught are established well in advance. They are aligned with the vision statements of the Institute and the departments and program specific criteria of internationally known professional societies such as ASME, ASCE, IEEE, ACM. All guidelines of AICTE and UGC are considered while framing curriculum of all courses. Program Specific Criteria recommended by International Professional bodies (e.g. IEEE for Electrical and Electronics, ASME for Mechanical Engineering, ASCE for Civil Engineering, CSAB for Computer Science and Engineering and IT department) are taken into consideration while designing the curriculum. Each department offers professional core and elective courses along with institute core courses and open electives. The college is instrumental in implementing curricular reforms, which has created national impact such as mandatory Six Months Industry Internship embedded in syllabi, skill courses, Social Innovation / Social Internship, CBCS, CTS. College promotes interdisciplinary approach by offering Interdisciplinary projects, Minor specialization in other department courses (12 credits), Open elective at Institute level, Interdisciplinary electives, Skill development modules, Industry visits, etc. Institute gives lot of thrust in offering value added courses and general proficiency courses for the overall development of students. Curriculum of every course is mapped with six course outcomes. The curriculum proposed by the department committee is discussed in the respective BoS and any suggestions by BoS members are taken into consideration. The modified curriculum is then presented in the Academic Council for the approval and to</p>

crosscheck the adherence to institute policies. College does have a structured mechanism to obtain feedback from students regarding the curriculum.

Teaching and Learning

The institute prepares the academic calendar well in advance before the commencement of the semester. It is done by Academic Cell and sent on group email of the faculty for the suggestions to be called from each faculty. Final draft is then made available on college website. The calendar outlines the semester commencement dates, dates of all CAE, TAE parameters and End semester examination, declaration of result of the examination, vacation, sports and cultural activities, industry visits and guest lectures, schedule of progress seminars, feedback schedule, academic audit, etc. The teaching plan is finalized at least 1 week before the commencement of the semester. The teaching plan submitted by the faculties includes Course Objectives, Number of classes devoted to each unit, assessment criteria, teaching methods, etc. The teaching plan is communicated to each student by the respective subject teacher in the first lecture of the semester. The teaching plan is also posted on the college website for easy access. The Head of Department and Dean Academics monitor the implementation of the teaching plan monthly. In case of any lapse in teaching plan, Head of Department asks the faculty to conduct extra classes or take extra measures to bring the teaching plan on track. Institution continuously monitors teaching learning process. Teaching learning is student centric. The college encourages departments to organize expert lectures by inviting faculty from IITs, reputed academic institutes (National or International) and industry experts. Institute has adopted modern teaching learning practices with blended MOOCS, Google class rooms, NMEICT (IITB), skill courses, NPTL Lectures, online examination Virtual labs which are all initiatives of MHRD.

Examination and Evaluation

The college has an integrated examination cell which is headed by Controller of Examinations. Management Information System (MIS) software has

been developed for all Teaching Learning planning and implementation processes, all preexamination, examination and post examination and supplementary processes such as Time table generation, student list generation, online payment for examination, all internal and end semester examinations, tabulations, result declaration etc. End Semester Examination (ESE) of UG programmes is conducted centrally by Examination Cell. Officer In Charge is deputed for conduct of each End Semester Examination. However, End Semester Examinations for postgraduate programmes are coordinated by respective departments. Students are evaluated continuously throughout the academic session. For Undergraduate courses the Institute has 40 weightage for Continuous Evaluation and 60 on End Semester Examination. While for Postgraduate Courses it is 50 weightage for Continuous Evaluation and 50 on End Semester Examination. In Continuous Evaluation of UG students 20 weightage is given to class assessment examinations (CAE) and 20 weightage is given to teachers assessment examination (TAE). In continuous evaluation of PG students, 30 weightage is given to class assessment examinations (CAE) and 20 weightage is given to teachers assessment examination. Seven TAE parameters are conducted out of which one of the TAE is on attendance and another on extracurricular/ cocurricular activities. Each TAE has four marks and five TAE is to be completed by the students. Answer sheets of end semester are shown to the students as per the schedule. Grievances of internal and end semester examination are solved. Open house is arranged for any grievances, which are not resolved. Results are declared within 8 working days.

Research and Development

Institute has dedicated RD Cell headed by Dean (RD) for facilitating and monitoring research. Apart from this there are various other committees like RPC (Research Promotion Committee) RRC (Research Recognition Committee) for monitoring research work of PhD. It has well designed R D policies and are reviewed from time to time in Governing body meetings. Apart from this students

are sponsored to participate in projects competitions at other institutes. Special recognition and incentives are given to faculties guiding research. Ecosystem is in place for promotion, dissemination and exploitation of technology leading to patents and research publications. The College is providing all support to the teachers for pursuing research and innovation. The institute is approved research centre for Ph.D. under Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur for 7 Ph.D. Programmes. Currently 47 researchers are pursuing PhD program. Total 76 scholars have been awarded doctoral degrees in last five years. This year, 11 Ph.D. presubmission seminars were conducted in which 10 experts were from IITs and IISc. 13 students have submitted their thesis to University for examination. The institute has filed 208 patents in which 178 undergraduate, and 04 postgraduate and 03 PhDs and total 53 faculties were involved in filing these patents. The Institute is Ranked 5th in 'Top Patent Filers' as per the Annual Report of Indian Patent Office. On Research Front 304 papers, which include 52 in Web of Science, 80 in Scopus which also include 135 publications by Postgraduate students and 67 publications by doctoral students, 102 by faculties, The total citation count in 201819 is 1202 in Google Scholar, 577 in Scopus, 231 in Web of Science, wherein overall citations under scopus are 2181, 637 under Web of Science and around 6893 in Google scholars. The institute has 623 publications enlisted in Web of Science and 953 enlisted in Scopus. Total 47 proposal are in pipeline under different scheme which includes 14 under SERB, 02 RPS, 02 AICTE ISTE REFRESHER PROGRAMMES, 01 Grant for Organizing Conference, 02 Modernization Removal of Obsolescence, 01 PRERANA Programme Centre for SC/ST Students, 01 SAMRIDHI Programme Centre for SC/ST Students, 05 STTP - Short Term Training Program, 05 DST NIMAT, 06 DST ICPS, 01 CSIR GOC (ICAMEE), 01 SERB GOC (ICAMEE), 01 DST DST Technology Program AgroTech Development, 01 ISTE FDP, 01 AICTE Digital Classroom, 01 SERB (ICETETSIP19), 01 The

Institution of Engineers(India)
Technical Department RD Grantinaid
Scheme,01DSTFIST PROJECT (Level0).

Library, ICT and Physical
Infrastructure / Instrumentation

Institute has state of art infrastructural facilities to support teachinglearning, research and administrative services. The college campus is spread over 6.72 acres with multistoried building. College has sufficient numbers of class rooms, studio rooms, seminar rooms, conference hall and laboratories. There are separate departmental libraries with Centralized library having reading hall for 220 students. Institute has well equipped language lab for improving communication skills. Laptops with internet dongle to all faculty members are provided to improve the teaching. Auditorium with 1000 capacity, two mini Auditoriums of capacity 200350 are created with facility of video conferencing. Renewable energy (solar), solar plant is established with 120 panels of 30 KVA and another 72 panels for 20 KVA. Centralized Computer Centre is provided with 300 new apple machines. Software for online inhouse resources booking facility has been developed to optimally utilize the physical resources. Campuswide Networking WiFi and CCTV facility is available in the college. A wellequipped big Medical hospital is nearer to college campus, institute has Doctor on regular visit. College has its own Ambulance. To accommodate the students coming from distant places, the college has two boys and three girls' hostels. Transportation facilities are also provided for student and staff. Bank and ATM facilities are also available in college campus. Other facilities include clean drinking Water with RO system staff Canteen, student canteen, girls and boy's rest room, womens rest room, telephone, sport room and Aircooled Gymnasium are available in college campus. It has innovation gallery wherein creative and patented projects are displayed. GHRCE Incubation Centre was set up in 2015 to foster entrepreneurship and promote innovation.

- Human Resource Management
- Industry Interaction / Collaboration
- Admission of Students

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

E-governance area	Details
Planning and Development	The Institute through the Academics cell uploads tentative detailed calendar for every semesters on the Institute website before commencement of the academic session. The calendar highlight various activities and events viz. admission to various Semesters, internal and external examination schedules, sports, holidays, Induction and farewell programs, etc. The Institute also updates and make aware of the upcoming activities of the Institute and important events held in the Institute through the Institute website and various Medias such as Emails and Whatsapp.
Administration	Biometric system for attendance of faculty and staff. Salary intimation through Email. Form No. 16 sent through Email to all faculty and staff.
Finance and Accounts	Scholarship of students and salaries of employees are credited to their bank accounts directly. Students may pay their admission fees through MIS online.
Student Admission and Support	Admission information put up on the Institute's website and admission process is carried out through MIS online
Examination	Information regarding examination matters are uploaded on the Institute's Website. Examination forms are filled through MIS online with all processes like payments, results etc. Online examinations are held through Moodle platform.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr. Sunil Nangrani	Rural Innovative Startup Conclave	Rural Innovative Startup Conclav eRajendra Nagar, Hyderabad	1320

[View File](#)

6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	3D Printing, 3D Printing for Industrial Biomedical Applications, AI Deep Learning, Electrical Simulation Softwares, FMS / Robotics Automation (Mechatronics), Internet of Things (IoT) 2, IoT its Applications, Machine Learning Workshop,	English (BEC) Module, Excel Training 1, Excel Training 2, VYAKTITVA, YOU vs. YOU	03/06/2018	30/03/2019	143	77

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
3D Printing	19	29/10/2018	17/11/2018	0.1
View File				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
10	50	1	30

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
1. Fee concession to ward of employees in RGI 2.	1. Uniform to all Male Non Teaching staff 2.	1. Support for Patent filing 2. Support for

<p>Fee concession to employees for qualification upgradation in RGI 3. Sponsorship for various conferences and workshops 4. Sponsorship for research under QIP and other similar schemes 5. Group Mobile and Laptopis provided for official work 6. Accidental Insurance Policy for all Employees 7. Official Support for Patent filing 8. Official Vehicle and Conveyance for staff</p>	<p>Scholarship for ward of nonteaching employees through SGRKF 3. Fee concession to ward of employees in RGI 4. Fee concession to employees for qualification upgradation in RGI 5. Various skill enhancement activities for non teaching staff. 6. Monthly recreational activity (Pillars) for non teaching staff 7. Periodic Medical Checkup for staff 8. Medical Insurance is provided to all non teaching staff 9. Laptop is provided to staff for official work 10. Bus facility is provided to needy staff at concession rate.</p>	<p>attending Workshops conference 3. Seed money for projet work 4. Accidental Insurance Policy for all students 5. Doctor is available in the campus, 6. First aid boxes are available in all departments and sections 7. 24X7 Ambulance is available in campus. 8. Medical facility is available at Lata Mangeshkar Hospital which is just 100 metres away from the campus. Institute is having MoU with the same hospital for medical support. 9. Concession for siblings 10. Toppers award 11. Achievers Awards 12. Institute scholarship for needy students</p>
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6.4 – Financial Management and Resource Mobilization

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

Internal and external financial audits are conducted regularly in the Institute. Institution has financial committee who conduct regular financial audits Finance committee Name of the member Designation Designation within committee Dr. Preeri Bajaj Director, GHRCE Chairman CA Mr. Nitesh Sanklecha Director, Procurment Management Nominee Dr. D.V.Padole Professor Member Secretary Mr. A.P.Kadam Account Officer Member Objectives of finance committee audit • To evaluate the adequacy of internal control systems and management of funds. • To ensure the complianc of the laid down policies and procedures as documented in the Project Implementation Plan and Financial Management Manual of the project. 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

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Vision freight solutions India Pvt. LTD.	35000	Computer Aided Design For Early Neurodegenerative Disease Detection Using EEG
View File		

6.4.3 – Total corpus fund generated

51048884

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	External Experts from IITs	Yes	IQAC GHRCE
Administrative	Yes	External Experts from IITs	Yes	IQAC GHRCE

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

1. Faculty Advisor scheme and regular follow up of wards and parents for betterment of students. 2. Monthly performance letters of students to their parents and Parents Meetings for poor performing students 3. Android app for Parents to know regular performance of their wards

6.5.3 – Development programmes for support staff (at least three)

• Pillars programme conducted every month for support staff • Technical workshop conducted to enhance their technical skill • English communication training conducted • Excel /Power point presentation skill training conducted

6.5.4 – Post Accreditation initiative(s) (mention at least three)

1. Fractional academics introduced for UG programmes 2. One year industry Internship for all PG programmes 3. Center of Excellence established

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	NIRF 11th PAN India Rank in Engineering Discipline:	18/09/2018	01/06/2018	15/05/2019	5588
2018	Academic Audit Internal	20/06/2018	20/06/2018	30/04/2019	257
2018	Choice Based Credit System for UG and PG	20/06/2018	20/06/2018	30/04/2019	5331
2019	Participation in CII Platinum Status by AICTE CII Survey	15/05/2019	04/06/2018	15/05/2019	5588
2019	Patent	15/05/2019	04/06/2018	15/05/2019	5588

	filling 5th Rank in Patent Filling in 2018 as per Indian Patent Office Annual report.				
2019	Participation in Atal Ranking (ARIIA) Amongst top 100 institutes, developed "Improvement Card for the top 100 odd institutes shortlisted.	15/05/2019	04/06/2018	15/05/2019	5588
2019	Administrative Academic audit	29/06/2019	28/06/2019	29/06/2019	257
2018	Credit Transfer Scheme	25/06/2018	25/06/2018	15/05/2019	29
2019	Quality of Publications	04/06/2018	04/06/2018	15/05/2019	693

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Gender Equality Awareness Rally conducted at Sukali (Gupchup) Village Hingna, Nagpur by ETRX NSS Cell of G. H. Raisoni College of Engineering, Nagpur	22/12/2018	22/12/2018	13	28
Elocution Competition on Gender Equality	29/12/2018	29/12/2018	5	5

at Vidya
Sadhana Convent
High School &
Jr. College
Jaitala, Nagpur

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

- Green Audit
- Buildings are planned and constructed in such a way to get sufficient light and Ventilation.
- Electric fittings are kept in proper conditions to prevent leakage of electricity.
- Incandescent lamps have been replaced by CFL and now CFL are being replaced by LED bulbs.
- Refrigerators and airconditioners are purchased with star rating.
- College has adopted EGovernance practices including paper less office, Cloud Storage, e-circulars, e-bulletins, video conferencing
- ERP software in use are MIS for all academic, students section and examination work, AIMS for stores, accounts and Establishment
- Waste paper is sold to vendors for recycling
- Rejected computers, printers and keyboards in working condition are donated to nearby schools
- Use of Tobacco and Cigarettes are strictly prohibited in the college
- Junk food is also prohibited in the campus
- Solar and wind energy is used as renewable energy source which has reduced the consumption of conventional electricity as below:
- Power factor is maintained at one
- Renewable Energy: Institute is using the renewable energy sources as follows:
- Institute has installed 1 set of 20 KW and 1 set of 30 KW capacity solar panel at institute terrace.
- 200230 units are generated daily from the above solar panels.
- Solar Water Heating System has been installed in the students Hostels.
- Rain Water Harvesting: Roof water harvesting is done and collected water is used for gardening purpose.
- Recharging of the campus water is done through bore in campus which is beneficial to the near by locality on D/S side.
- Hazardous Waste Management: Hazardous Chemicals are kept separately in the store room away from the reach of students. Chemicals and safety norms in the laboratory are strictly followed.
- Students are made aware of the hazardous chemicals and safety aspects when they are given instructions before utilizing the chemicals.
- The labs are well ventilated and spacious and equipped with exhausts.
- The sanitary napkins, batteries and other hazardous wastes are disposed off in the Municipal Hazardous Waste facilities.
- PH value is neutralized the disposed off.
- e Waste Management: UPS Batteries are recharged/repaired/exchanged with the suppliers.
- Electronic and computer accessories which are declared "Obsolete" are Collected at one place and dispose,
- e Waste management system is in existence, old spare parts are reused

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	0
Provision for lift	Yes	0
Ramp/Rails	Yes	0
Braille Software/facilities	No	0
Rest Rooms	Yes	0
Scribes for examination	Yes	0
Special skill development for differently abled students	No	0

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	2	2	19/03/2019	1	Poshan	Awareness activity on Poshan under Poshan Pakhwada at ZP School Rajiv Nagar, Hingana on 19 March 2019 Poshan Rally at Rajiv Nagar Hingana by Team NSS of GHRCE, Nagpur	60
2019	10	10	20/06/2018	1	Swachatta Campaign	App design for Swacchata Abhiyan Campus cleaning Activity at GHRCE, Nagpur on 29/09/18 Dustbin Monitoring by Civil Engg. Students Dustbin Monitoring by Electrical Engg. Students Dustbin Monitoring by ETC	233

						Engg. Students Dustbin Monitoring by ETRX Engg	
2018	1	1	08/08/2018	1	Tranffic Sensitization	Traffic Awareness Camp at Variety Square Nagpur by NSS Volunteers of G. H. Raisoni College of Engineering Nagpur	19
2018	1	1	23/06/2018	1	Waste Management	Implementation of Dry waste wet waste bins in college hostel premises	16
2018	3	3	14/08/2018	1	Blood and Food Donation	Blood Donation Awareness Camp by Team LMH at GHRCE, Nagpur on 11/08/2018 Blood donation camp conducted by NSS at G. H. Raisoni College of Engineering Nagpur on 14/08/2018 Donation of Goods and items for Kerala Flood Affected people	363

2018	3	3	20/08/2018	1	Education Awareness	App design for Accessible Education Each One Teach One Activity at Z. P. School In diramata Nagar, Digdoh, Hingna Each One Teach One Activity at Z. P. School Rajiv Nagar, Hingna	27
2019	2	2	22/01/2019	1	Environment Protection	Awareness Camp on Environment, Health, Animal and eating habits by Vegan Outreach, A Non Profit NGO at GHRCE by NSS cell Sustainable Development Activity Awareness Program for Green Energy on 20092018	260
2018	2	2	22/12/2018	1	Gender Equality	Elocution Competition on Gender Equality at Vidya Sadhana Convent High School	291

						Jr. College Jaitala, Nagpur Gender Equality Awareness Rally conducted at Sukali (Gupchup) Village Hingna, Nagpur by ETRX NSS Cell of G. H. Raisoni College of Engineering	
2018	1	1	14/08/2018	1	Environment Safety	Tree Plantation on 4th August 2018 at G. H. Raisoni College of Engineering Nagpur	70

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Freshers Hand book	11/07/2018	Each stakeholder has been provided with the handbook at the time of admission. The complete scheme of study during his/her 4 years of study is given which includes rules and regulations, disciplines, Academic Calendar, Exam Calendar, Grading Pattern, Grievances, Support System, Students Chapters, Placements, Infrastructure, Scholarships, CExtra Curricular, Facilities, Awards and Honors, Guidelines for Parents, Teacher Guardian Scheme, Activities and Achievements, Faculty

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
4th International Yoga Day celebration	21/06/2018	21/06/2018	300
Orientation of NSS Discussion about planning of activities	23/06/2018	23/06/2018	56
Celebration of Gurupournima By Team NSS	27/07/2018	27/07/2018	15
Tree Plantation on 4th August 2018 at G. H. Raison College of Engineering Nagpur	04/08/2018	04/08/2018	70
Traffic Awareness Camp at Variety Square Nagpur by NSS Volunteers of G. H. Raison College of Engineering Nagpur on 08/08/2018	08/08/2018	08/08/2018	19
Blood donation camp conducted by NSS at G. H. Raison College of Engineering Nagpur on 14/08/2018	14/08/2018	14/08/2018	160
Installation of Rakhi Stall at GHRCE, Nagpur on 24/8/18	24/08/2018	24/08/2018	10
Each One Teach One Activity at Z. P. School Indiramata Nagar, Digdoh, Hingna	25/08/2018	25/08/2018	14
Each One Teach One Activity at Z. P. School Rajiv Nagar, Hingna	08/09/2018	08/09/2018	10
Rakshabandhan at Shradhanand Anathalay, Nagpur	08/09/2018	08/09/2018	10
Swami Vivekananda's Historic Speech reading	11/09/2018	11/09/2018	350

NSS Volunteers attended training on 'Master Teacher Training Program' at M M MIDC Hingana, Nagpur on 31018	04/10/2018	04/10/2018	14
Rashtriya Ekta Diwas Celebration at G. H. Raison College of Engineering, Nagpur on 31st October 2018	31/10/2018	31/10/2018	140
Participation in Constitution rally and reading of preamble of constitution at RTM University campus on 26/11/2018	26/11/2018	26/11/2018	12
Masters Teacher Training program at Mahindra Mahindra Hotel Heritage	04/12/2018	04/12/2018	10
2nd Orientation Program of NSS	08/12/2018	08/12/2018	63
Observance of Human Rights Day	10/12/2018	10/12/2018	57
Visit to Blind Association Foundation, Nagpur By Ele. Engg. Dpet. GHRCE, Nagpur	15/12/2018	15/12/2018	10
Observance of Savitribai Phule Jayanti, 'Balika Din' at GHRCE, Nagpur	03/01/2019	03/01/2019	56
ISR Activity Conducted By Management Students	05/01/2019	05/01/2019	55
Tree Plantation by MBA Dept. and NSS at Five Star Boys Hostel	09/01/2019	09/01/2019	85
Celebration of National Youth Day on behalf of Swami Vivekananda Jayanti and Rajmata Jijau Jayanti Mahotsav	12/01/2019	12/01/2019	76
NSS Volunteers	16/01/2019	16/01/2019	6

Attended A Discussion on Gramsabha to Rashtrasabha by Dr. Chittaranjan held by Matru Sewa Sangh Samajkarya Sanstha Nagpur			
Speech and Discussion on Gandhian Thoughts by Dr. Chittaranjan, Exconsultant, Planning Commission on behalf of 150th Birth Anniversary Year of Rashtrapita Mahatma Gandhi	18/01/2019	18/01/2019	156
National Voter Day Celebration at GHRCE on 25th January 2019	25/01/2019	25/01/2019	300
Celebration of Republic Day with SRPF Jawaan at Hingana by distribution of handmade greetings on 26th January 2019	26/01/2019	26/01/2019	35
Online Registration camp for Voting under Lokshahi Pandharwada at GHRCE	06/02/2019	06/02/2019	125
Celebration of Shiv Jayanti Sohala at GHRCE	19/02/2019	19/02/2019	1500
Wall Painting and Rangoli Making Activity conducted at GHRCE Under 150th Birth Anniversary year of Rashtrapita Mahatma Gandhi	19/02/2019	19/02/2019	50
Tribute to Pulwama Attack Martyres	19/02/2019	19/02/2019	2000
NSS Youth Workshop at GHRU Saikheda	22/02/2019	23/02/2019	4
Youth Group Meeting under 'Poshan Pakhwada' conducted	15/03/2019	15/03/2019	30

by NSS unit of GHRCE, Nagpur			
Awareness activity on Poshan under Poshan Pakhwada at ZP School Rajiv Nagar, Hingana on 19 March 2019	19/03/2019	19/03/2019	30
Poshan Rally at Rajiv Nagar Hingana by Team NSS of GHRCE, Nagpur	19/03/2019	19/03/2019	30
Swachata Rally at Rajiv Nagar Hingana	19/03/2019	19/03/2019	30

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

- College conducts energy audit and paper audit of the campus every year
 - Rain Water Harvesting in the campus
 - Solar power generation on rooftop of the Institute
 - Bio gas plant in Boys hostel
 - Recycling of waste water
- The environment in the institute provides an ecofriendly atmosphere conducive for the development of the students

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best practices in Teaching Learning: Following are the details of best practices adopted by the institute for Teaching, Learning and Evaluation:

- QEEE classes by IIT Madras. Best partner category award.
- Use of Blended MOOC of IIT Bombay
- Activity based Class Assessment Examination.
- Design based teaching
- Guest speakers from National Institutes of repute and Industry are invited quite often to deliver talks and interact with students so that the students are motivated to mould them selves suitably for scaling higher career levels.
- Student's Feedback: Student's feedback is conducted twice in a Semester. Based On the feedback, Teachers are counselled.
- Six months Industry Internship is embedded in the curriculum. Additional Industrial Training of minimum 4 weeks is mandatory before going to 7th Semester B.E.

Campuspreneur Program: 50 Students have formed 10s and have started working on their ideas. They are being mentored by TiE Nagpur.

- Students are supported for various workshops, technical competitions, etc .and students have brought laurels by securing prizes and awards at various competitions held nationally.
- Faculties are deputed for pedagogy, subject domain and research oriented trainings at IITs/NITs for their knowledge upgradation.
- Continuous monitoring and performance review.
- Internal Academic audit conducted through out the semester by cross departmental Audit Teams. External Academic audit are conducted by faculties from IIT's, NIT's and Autonomous Institutions.
- Laptop with data card to all faculties.

Best practices in Research Development:

- Seed money for research.
- Sponsorship for attending conferences and seminars in the registration fees and TA/DA.
- Incentive for research grants, patent, research guidance
- Organisation of International conferences on various thrust areas every year.
- Deputation for Ph.D with 75 pay.
- Special leaves (with full pay) for writing thesis of Ph.D.
- Felicitation of Ph.D awarded faculties.
- Plagiarism check for all types of publications by faculty and students
- Presubmission seminars for PhD scholars in presence of experts from IITs/IISc
- Support for Patent filling
- Incubation center for UG and PG students
- Center of Excellences in thrust areas.

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

<http://ghrce.raisoni.net/research.php>

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

G.H. Raison College of Engineering (GHRCE) Nagpur, established in 1996, is an autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University. The institute became autonomous in 2010 for a period of six years till 2016 and UGC has renewed autonomous status till 2022. It is ranked 67th PAN India in Engineering Discipline as declared by National Institutional Ranking Framework (NIRF) 2017, MHRD, Government of India. It is ranked in the band 100150 PAN India in Engineering Discipline as declared by National Institutional Ranking Framework (NIRF) 2018, MHRD, Government of India. Institute is also ranked 69th PAN India by India Today MDRA Survey 2018. GHRCE ranked 111th PANIndia in Engineering Discipline as declared by NIRF Ranking 2019.

Provide the weblink of the institution

<http://ghrce.raisoni.net/about-ins.php>

8.Future Plans of Actions for Next Academic Year

01 International Conference organization Planned for Three International conference for 201920 • (International Conference on Recent Advancement in Civil Engineering and Infrastructural Development (ICRACEID19) 56 July, 2019 (Civil Engineering Department) • International Conference on Advances in Mechanical Electrical Engineering (ICAMEE19) August 2425, 2019 (Mechanical Electrical Engg. Department) • International Conference on Emerging Trends in Engineering Technology (ICETETSIP19) November 12, 2009 (Electronic Engg. Electronic Tele .Engg.) 02 NBA for Three UG Programmes Department • Electronic Engineering • Electronic Telecommunication Engineering • Mechanical Engineering 03 Short Term Training Programmes (STTP) organization Planned for Seven Short Term Training Programmes (STTPs) for 201920 • STTP on Sustainable Development • STTP on Health monitoring of structure • STTP on Data Analytics Science • STTP on 3 D printing for Industrial Biomedical Applications • Trends and Application of AIML in field of ETC Engineering • STTP on Design optimization and light weighting • STTP on Flexible Manufacturing • Recent trends in Electrical Vehicle 04 NIRF ranking • Participation in NIRF ranking 05 ARIIA Ranking • Participation in ARIIA ranking 06 Academic AuditInternal • Planned 3 internal academic audit for Odd_201920 • Planned 3 internal academic audit for Even_201920 07 Organization of Workshops • National Workshop on smart solution for smart city • International workshop on AI summit • One day Workshop on ASME EFX for students • One day workshop on Linux organized in association with ICT IIT Bombay on 24August 2019 • Workshop on Patent Awareness for UG students • Two day workshop on GHR Connect (Industry Meet) 08 Organization PhD Colloquia • Two PhD Colloquia will be organized during August 2019 Jan. 2020 09 Organization of Hackathon • Smart India Hackathon • 36 Hrs. Medical Devices Hackathon (MEDHA) 2728 July 2019 • Hackathon on IEE ExTreme