

Perspective Plan

of

Name of College: G.H. Raisoni Institute of Engineering and Management, Jalgaon

for

2015-16 to 2020-21

1. RESOURCE OPTIMISATION:

1/1 Maintaining MIS for Energy, Water, Stationery, IT Consumables – formats year wise

- Recording of these activities on yearly basis
- All the stationary and consumables required for the department should be issued to respective department 15 days before commencement of semester
- Requirement should be submitted to purchase department by the end of semester.

1/2 Annual Internal Physical Verification of Stocks (Dead Stock, Tools etc.) – Deadlines

- DSR should checked regularly up to 15th June by other department yearly
- There should be clear guidelines to HOD regarding misplaced and damaged items.

1/3 Repairs and Maintenance of equipment – Dead lines

- Department should maintain equipment history register(Equipment damaged date-repairing date)
- Repairing priority should be given to local level
- Equipments should be repaired before commencement of semester.
- Report of Equipment status (all)(end of semester)(DEC & JUNE)

1/4 Freezing of Institutional Calendar for Academic and Non Academic activities year wise – Dead lines

- Academic calendar should be prepared before 30 day of starting of semester



1/5 Eco-friendly Campus – Biogas, Use of Gray water, Rain water harvesting, conservation of Energy, Water, Stationery, IT Consumables Year wise

- Biogas- from kitchen wastage March 2016 establishment of biogas should be from kitchen wastage & other wastage
- Rain harvesting already in use
- Gray water reuse system by March 2016 and estimation should be submitted by 30th June 2015.
- Conservation of energy-all appliances should be energy efficient .so to replace existing with new one (starting from April 2015) 1/3 appliances should be change
- Stationary :-Internal administration should be paper less System should be ready before 31st March 2016

1/6 Non Teaching staff – Existing, Proposed – Year wise

- All Lab assistant should be either Diploma or BSC qualified
- ITI :Everybody should be pass exam of National Trade Certificate These should be within 2 year
- One lab assistant should be for three labs
- Every summer break there should be 3 job oriented training programs conducted by lab staff(for 10th fail & for all)at college level

1/7 Housekeeping staff – Existing, Proposed – Year wise

- Housekeeping work should be mechanized by 25%by march 2018
- 50% by March 2020

1/8 Security Staff – Existing, Proposed – Year wise

- Security staff: Automation of security system should be introduced &no. of guards should be reduced
- It should be by march 2016
- One guard at gate is sufficient.
- At hostel smart card system should be there
- Separation of boys and girls card should be there so one guard is sufficient



1/9 Renewable energy Resources like Solar panels, Replacing CFL with LED (Deadlines)

- Replacing CFL with LED 1/3rd

1/10 Boys' Hostel – Capacity – Existing, Proposed – Year wise

We should work out for mechanism of utilization of hostel for example room rent of two categories & mess also of two categories to match students needs (Twins sharing 4-5 boys)

1/11 Girls' Hostel – Capacity – Existing, Proposed – Year wise

- Hostel : We should work out for mechanism of utilization of hostel for example room rent of two category & mess also of two category to match students needs(Twins sharing 4-5 girls)

1/12 Play grounds – Existing, Proposed – Year wise

- Playground:-improvement of cricket ground for example 1.prepare standard pitch
2. Quality of ground upto march 2017
- Recreation club &Gym should be there up to march 2017

1/13 IT infrastructure proposed – Year wise

- Next year 4 printers are necessary(CSE,IT,E&C,CIVIL)
- Electrical department should have pc
- Mechanical department should have pc
- March 2015 16-17 20 pc are required
- Up gradation of existing pc RAM should be upgrade to 4gb(minimum)50%up to 15-16&50% up to 16-17
- There should be policy for maintenance and service lifetime of laptop

1/14 Laboratory Software – Existing, Proposed – Year wise

Sr. no	Particulars	Existing	Proposed	year
1	MATLAB	5	10	2016-17
2	AUTOCAD	0	10	



3	ORACLE	0	10	
4	LABVIEW	0	10	
5	CATIA	0	10	
6	STADPRO	0	10	2019-20
7	MATHEMATICA	0	10	200-21

1/15 Equipment – Proposed to be procured – Year wise

- For up gradation of existing & proposed courses 50,00,000 per year

1/16 Central Library – Titles, Volumes, CDs, Reading room capacity, Any other – Year wise

- Existing 16700, to add regularly

1/17 Digital library, Digital Learning Material – Year wise

- 500 titles should be purchased per year

1/18 Use of open resources – Software – Year wise

2 ACADEMIC EXCELLENCE:

2/1 Courses – Existing, Additional, Natural growth – UG/PG/Diploma – Year wise

Sr. no	Course	2015-16	16-17	17-18	18-19	20-21	21-22
1	ME(civil)			√			
2	ME(Thermal)	√					
3	ME(VLSI)	√					
4	ME(Embedded)	√					
5	UG Electrical	√	√	√			



2/2 Courses – Reduction, Natural Reduction, Closure etc – UG/PG/Diploma – Year wise

- Closure :Elex : 15-16,16-17,17-18,18-19

2/3 Intake – Anticipated every year in – UG/PG/Diploma – Year wise

Year	15-16	16-17	17-18	18-19	19-20	20-21
Intake	480	480	540	600	660	660

2/4 Courses – Value Added courses – Year wise

- Value added courses
2 per year per branch

2/5 Teaching Faculty – Required as per norms – Year wise

- Teaching faculty cadre ratio to meet by 2020

2/6 Teaching Faculty as per Expected Cadre Ratio – Course wise – Year wise

Year	Prof	Assoc prof	Assistant prof
15-16	19	38	114
16-17	20	40	121
17-18	21	42	125
18-19	22	44	129

2/7 Teaching Faculty Existing Approved – UG/PG/Diploma – Year wise

Course	2014-15	15-16	16-17	17-18	18-19
Diploma	0	25	50	75	100
UG	13	38	63	88	113
PG	9	34	59	84	109

2/8 Teaching Load distribution policy – Year wise

Teaching load distribution policy:



Prof	Ass. Prof	Asst. prof
8	12	16

2/9 Quality Improvement – Teaching Methodologies to be introduced – Year wise

- Quality improvement:-Teaching methodologies 50% should be taught by multimedia rather than chalk and talk
- 10% every year in every subject content beyond syllabus to be taught
- One multimedia classroom to be added every year department wise.

2/10 Centre of Potential Excellence

- Center of potential excellence :17-18 should be established by 2018-19

2/11 Curriculum Bench marking with premier institutes, gap analysis and delivery beyond syllabus – Year wise

- Curriculum bench marking:- 30th April2015
- Gap analysis: - 15th May 2015.
- In every semester each branch should clear 1 gap.

2/12 Staff Development Programmes – Year wise

- Staff development program:2 per year per department for every faculty 1 is compulsory(rotation branch)

2/13 Effective IQAC Functioning and Impact Analysis

- Effective IQAC functioning & impact analysis should be done in a year

2/14 Setting up minimum quality threshold aligned with rational Appraisal System – Year wise

- Once in a year in the month of July-August.



3. INDUSTRY/RESEARCH INTERFACE:

3/1 MoUs for Faculty Exchange Program - Year wise

- MOU for faculty exchange program
- 17-18 :- 2 department
- 18-19 :- 2 department

3/2 Ph.D. Registrations Expected Course wise - Year wise

- PHD registration expected course wise –year wise 25% per course per year from 2017-18
- IIT NIT:-one faculty per department per year full year
- Local:-one faculty per dept. per year.

3/3 Ph.D. Awardees Expected Course wise - Year wise

- PHD awarded expected course wise

Year	16-17	17-18	18-19	19-20
Award	2	1	2	3

3/5 Ph.D. Guides expected Course wise - Year wise

- Ph D Guides expected course wise

Year	16-17	17-18	18-19	19-20
Guide	1	1	1	1

3/6 Publications in International Journals – Existing, Expected - Year wise

- Existing:-187
- Expected:- One publication per faculty should be done in reputed journals yearly.

3/7 Publications in National Journals – Existing, Expected - Year wise

- Existing:- 85
- Expected:- 2 publications per faculty should be done in reputed journals yearly.



3/8 Presentations in International Conferences – Existing, Expected - Year wise

- Existing:-59
- Expended:- One presentations per faculty should be done in international conferences yearly

3/9 Research facilities – Research Labs, Equipment proposed - Year wise

- Proposed Equipment List:-
- DSO
- Spectrum Analyzer
- Logic Analyzer
- PLC
- ARM 7 Processor
- Bedside Monitor
- Process Flow Loop and Control Value

3/10 Constitution of Research Advisory Committee-Dead lines, features

- Already Existing and to add more experts

3/11 Papers in indexed journals No. - Year wise

- Paper in index journals -84 to improve number

3/12 Citation Expected - Year wise

- Citation expected

Year	16-17	17-18	18-19	19-20	20-21
	25	30	50	70	100

3/13 R&D grants of Expected Year wise - At least Rs. Lakh - Year wise

- R&D grand of expected

Year	15-16	16-17	17-18	18-19	19-20
R&D	10	10	12	12	20

3/14 Text Books published by faculty - Year wise



- Text book published by faculty

Year	15-16	16-17	17-18	18-19	19-20
Text book	1	2	2	3	4

3/15 Patents - Total No., Top Institutes No. - Year wise

- Patents

Year	15-16	16-17	17-18	18-19	19-20
patents	1	2	2	3	4

3/16 Memberships of National professional bodies by faculty - Year wise

- Membership of national professional body
(Existing collect from savita mam)
- Remaining all faculties should have at least one in 2016-17
- Compulsory for all staff

3/17 Average H-Index Expected - Year wise

- H-index-1

3/18 Memberships of International professional bodies by faculty - Year wise

- Membership of national professional bodies one per year

3/19 Membership of National professional bodies at Institute Level - Year wise

- At institute level
- Already have CSI

Year	15-16	16-17	17-18	18-19	19-20
CSI	2	1	1	1	1

3/20 Membership of International professional bodies Institute Level - Year wise

Year	17-18	20-21
patents	1	1



3/21 National Conferences for students - Year wise

- National conference for student one in year by expanding TRPCS

3/22 Organizing Conferences and Technical Exhibitions No. - Year wise

- National conference –one in a year at institute level
- One international conference once in a year to each group that should be rotation wise

3/23 Collaborations with Industries - Year wise

- Collaboration with industries
- One active collaboration with industry by each department

Year	15-16	16-17	17-18	18-19	19-20
Collaboration with industry	2	3	4	8	8

3/24 Industry funded laboratories No. - Year wise

Industry funded laboratories

Year	16-17	19-20
patents	1	3

3/25 Sponsored projects from Industry No. - Year wise

- Sponsored project from industry
- Min 2 project per department per year

3/26 Software for aptitude test – Existing, Proposed - Year wise

- s/w for aptitude test
- We need software which can evaluate & identify weak areas of the student & it should help them to improve, it should act as a trainer kit.

3/27 Consultancy Projects –Internal Revenue Generation – Amount Expected - Year wise



- Consultancy projects-internal revenue generation
2015-16 :- we shall indentify area where we can generate revenue
2016-17 :- To start in few areas

3/28 Accreditation by NBA, NAAC, NABL of at least Lab per year

- Already NAAC accredited
- Cycle 2 Target NAAC A+ Grade
- 2018-19 Will apply for NBA

3/29 2f, 12b proposals for grants from UGC - Year wise Amount

- 2f received
- 12b we will be apply in 2016-17 in 2017-18 we will be eligible for grant

4. STUDENTS' VALUE ASSESSMENT:

4/1 Technical Skills – Graduate Attributes

- Technical skill –graduate attributes
- 2017-18 prepare graduate attributes, POS, PSOS, PBOS, LCO

4/2 Soft skills programmes - Year wise

- 2 per year at institute level

4/3 Imparting Employability potential Expected - Year wise

- Twice in third year
- One in final year

4/4 Placement – Existing, Proposed - Year wise

- Job fare is conducted in each campus
- &at least 5 campus placement in our campus
- By 2017-18; 50% students to be placed and by 2020; 100% placement(with including higher education and entrepreneurs)



4/5 GATE, GRE, TOFEL etc. Number to be appeared - Year wise

- GATE ,GRE,TOFEL :-10% students to go for PG in elite institutions

4/6 Students Exchange Program No. - Year wise

- To start from 2017-18

4/7 Moral and Ethical Education Programmes - Year wise

- Minimum 2 programs per year

4/8 Institution Social Responsibilities - Year wise

- 2 programs in a semester

5. OPERATIONAL STANDARDS AND QUALITY:

5/1 Enrichment of Curricula – Bridge courses, Visits, Experts Lectures - Year wise

- Bridge course-once in I semester in each department for new admitted students
- Expert lecture :- 2 per semester
- IV (visit) :-1 per semester

5/2 Results of Examinations Expected – Semester wise

- 10% increment every year by referring result of 2014-15

5/3 Outcome based Educational System

- outcome based faculty training:-2015-16
- Preparation of outcome based by faculty 2016-17
- Implementation



6. NEW IDEAS AND PRACTICES:

6/1 Technology Transfer No. - Year wise

- At least one transferable technology to be delivered till 2015-16 and to be transferred in 2017-18 and one additional tech. thereafter on allocate year basis.

6/2 Establishment of Incubation Centre

- At least 2 start-ups to come out every year

6/3 Innovations projects - Year wise

- 2 projects per branch innovation project with unique idea

6/4 Environmental Consciousness – Projects - Year wise

- 1 project in a year (For environment conscious)


(Dr. A.L. MATHUR)

