R.V. COLLEGE OF ENGINEERING
Bengaluru – 560059.

Proceedings of IQAC Meeting held on 18th Jan. 2018

Purpose: To discuss the preparedness for subsequent report preparation of AQAR 2016-17.

Members Present:

1) Dr. K.N. Subramanya, Principal
2) Sri A. Krishna Reddy, Registrar
3) Sri. D.P. Nagaraj, Hon. Jt. Secretary, RSST.
4) Mr. S.K. Venkatesh, Admin Manager
5) Mr. Ganapathy Aithal, Accounts Superintendent
6) Prof. K. Vasudeva Banninthaya, Professor, Dept. of EEE
7) Prof. B. Anand, Professor, Dept. of ME
8) Prof. Nagashree N. Rao, Assoc. Professor, Dept. of BT
9) Prof. Ramaa A., Assoc. Professor, Dept. of IEM
10) Prof. Archana M.R, Asst. Professor, Dept. of CV
11) Dr. N.K. Srinath, Dean (Academics), Co-ordinator
12) Prof. S.C. Prasanna Kumar, Professor, Dept. of EIE

External Members:
14) Dr. M.H. Kori, Technology Consultant

Leave of Absence:
1) Dr. Sudarshan Rao, M/s. BigSolv Labs
2) Prof. U.H. Acharya, Professor, SQC & OR Unit, Indian Statistical Institute.
3) Mr. Girija Kolagada, Director, Software Development, Cloud Native Engg. Group & GBU, Oracle India Pvt. Ltd.

At the outset, the Principal welcomed all the members.

The Chairman introduced all the external and internal members.

Sub. No. 7: To read and record proceedings of the Sub No: 7 of previous meeting held on 02.11.2017.

Extension meeting is scheduled in reference with subject No 7 of IQAC meeting held on 02 Nov 2017

Principal briefed about the discussions in reference with subject No:7 which was discussed in the previous IQAC meeting held on 02.11.2017.

Henceforth, the discussion points under this Subject No: 7 & shall be referred as Item Numbers with serial number starting from 01, as this discussions are more focussed on Metric's/elements from NAAC criterions in line with preparedness for Re-Assessment

Agenda 1: Extract of Sub No: 7: Extension meeting for subject no. 7 of IQAC meeting held on 02nd November 2017.

Extract of Subject No. 7: Status on submission of compliance reports of NAAC and to apply for reaccreditation.

Principal informed the members that the institution has prepared the compliance report and it would be submitted within 30th Nov 2017 to NAAC. He also mentioned that the institution intends to apply for re-accreditation during 2018.

Item No 1: Discussion on significant activities made by IQAC during 2016-17 for curriculum development / revision.

The principal briefed the members on the following activities which were carried out by respective departments in concurrence with IQAC.

1. Use of ICT in Teaching – Learning Process: Institution has enforced use of NPTEL in all the courses. It has 725 subjects, 25000+ Video lectures.

2. Faculties are using Wikispace, MOOCS, MOODLE e-books and e-journals. This has made them use modern teaching process such as blended learning and flopped class room teaching.

3. Quiklrn Rollout: Quiklrn is an innovative technology platform that encourages learners to create an interactive learning environment and enables them to contextually build their learning paths. The platform with it's superior learning experience is expected to provide better learning outcomes. As part of Quiklrn's Experiential Learning offering, Quiklrn assists students to hone their business skills and acumen, preparing them to face the challenges of real life business situations and create differentiation for themselves.

4. Modules of Professional Practice: Undergraduate students from III semester to VI semester are provided with professional practice from recognized organizations. The contents of the modules are as follows:

a. III Semesters: Communication Skills, Communication with Confidence & Clarity, Verbal Analogies, Positive Attitude, Self-Analysis & Self-Management and Group Discussion.

b. IV Semester: Communication Skills, Stress Management, Group Discussion & Presentation Skills, Motivation and Assertive Communication

c. V Semester: Body Language & Proxemics, Interview Skills, Resume Writing and Aptitude Test Preparation.

d. VI Semester: Individual Counseling & Guidance, Career Orientation, Work Ethics, Interpersonal relations, Adapting to the Corporate Culture, Balancing Personal & Professional Life and Roles & Responsibilities

Item. No 2: Discussions on Books/Chapters published / authored by faculty and number of MoUs.
Committee proposed to procure the relevant available data for the above mentioned ones from the authenticated data sources.

Item No 3: Strategic discussions on plan of action / outcomes proposed by IQAC for next year

i. **To enhance the number of PhDs.** To create more awareness programs in the institution so as to motivate faculties to register for PhD; as a continued result of this till now 112 faculties have registered and are pursuing PhD.

ii. **Pedagogy training:** Three in house pedagogy training program were conducted for faculties. 70 faculties have undergone the training and have adopted the new teaching learning process.

iii. **Promoting the paper publication in scopus / Web of Science indexed journals.** Faculties are encouraged to publish papers in reputed journals. The number of publication made and their impact factor are considered during up gradation of AGP and for promotion.

iv. **Encouraging faculties to patent their work.** Faculties have been given orientation about the procedure of patenting and its benefit. Further institution assists the faculty in filing the patents, including financial assistance. After filing the patent, if possible to productionise the patent, the institute partners. Further, from the proceeds of the patented product, from sales, a certain percentage of profit are shared with the faculty. As a result of the encouragement given, 10 patents have been filed during the year as compared to only three in the year 2014-15

v. **Setting up Centre of Excellence.** Institution has planned & is striving hard to set up CoE in all disciplines. As of now a CoE is set up in Macro electronics.

vi. **Up gradation of technical skills of technical staff members:** To enhance Academic and Administrative Excellence in the college, the institution assesses the training needs among different group of technical staff. Technical staff are either trained in house by calling experts for teaching or deputed for training in various technical Institutes or to attend seminars/conferences.

vii. **Innovative activities** – Faculty and students have been actively involved in innovative active students clubs viz, Ashwa Racing, Team Vyoma, Team Chimera, Team Garuda, Team Helios, Solar Car Team, Project Jatayu, Team Astra, Team Krushi, Team Antariksh, Frequency club, team hydra, entrepreneurship development cell and coding club

Item No 4: Number of Programme syllabus revisions / updates during this year

Committee proposed:

1. The Self Study to be refereed as Experiential Learning from 2016 scheme and syllabus. For experiential learning 16 credits are assigned. These credits are covered from 3rd semester to 6th semester.

2. The number of courses in each semester should not exceed 6 (excluding HSS and Bridge courses).

3. The 8th semester should consists of Project work for 16 credits, Technical seminar for 2 credits and Innovation and Social skills (HSS) for 2 credits.

4. The mathematics-III and Mathematics IV be cluster wise.

5. Material science /Biology was included in 3rd semester for 2 credits and Environmental Science in 4th Semester for 2 credits.

6. For lateral entry diploma students, the Bridge course in mathematics has to be included in 3rd semester and Bridge curse on C programming to be included in 4th Semester.

7. Professional practice I to focus on communication English for 22-24 hours of class room teaching. For II and III year soft skills for 18 hours/semester.

8. The title of the course Constitution of India is called as "Indian Constitution and Legal studies for Engineers".

9. There are 3 open electives in 2016 scheme out of which, one open elective in fifth semester and one open elective in sixth semester and one elective in seventh semester. The number of credits for open electives is 4 + 3+ 3= 10 credits.

Item No 5: Discussions on Innovative practices adopted by Institution for Teaching Learning & Evaluation

1. Practicing Outcome Based Education (OBE) system of Education

2. E-Learning solution of automatic recording and distribution of classroom lectures on the flipped class model.

3. Blended learning with NPTEL and QEEE.

4. Establishment of Collaborative Laboratories with industry

5. Open ended experiments

6. Rubrics to assess lab experiments and projects.

7. Promoting research culture among the students from first year onwards.

8. Projects for Community Service.

9. Internships during semester breaks.

10. Encourage inter disciplinary and multi-disciplinary approach for projects.

11. Motivate and help students to do minor and major projects in domain related areas.

12. Encourage interdepartmental student projects

13. Augmentation of labs with state of art equipment.

14. Funding for multi-disciplinary projects

15. Awards for best student projects. Some projects are leading to patents

16. Financial support to student for presenting technical papers

Item No 6: Measures taken by IQAC to monitor and evaluate Teaching Learning Process

The principal briefed that, IQAC effectively monitors the teaching learning process through:

1. **Monitor of conduct of internal assessment:** There is college level academic monitoring committee. There is a process in place to monitor the conduction of internal assessment. The college provides the calendar of events in which the schedule of Quiz and Test are published in the beginning of every academic year.

2. **Monitors academic activities of various departmental committees:** There are few academic committees in each department. They are Board of Studies (BoS), Board of Examiners (BoE), Academic and monitoring committee. Board of Studies looks after the academic requirements. There are external members as per the statutory requirement. BoE looks after the examination question paper standards and the faculty evaluating it. The academic monitoring committee has a greater responsibility to look after day to day activities as per the academic needs.

3. **Train the faculty on Bloom"s taxonomy and programme outcomes:** There are various levels in which Bloom"s Taxonomy and programme outcomes are being peculated to faculty members. The fresh assistant professors are provided with pedagogy training programing during which the basis and the process to be followed in mentioned. The Academic monitoring and BoE monitors into the Bloom"s adaptation in the question paper. The BoS monitors monitor both CIE and SEE for Bloom"s taxonomy and programme outcomes.

*The meeting concluded with discussion on above points; and also it is planned to have one meeting in line with the same subject during March 2018.

IQAC Coordinator

Chairperson
PRINCIPAL
R V COLLEGE OF ENGINEERING
BANGALORE - 560 059

R V College of Engineering, Bengaluru -560059   Date: 07/02/2018

Item No	Minutes of Meeting	Action proposed/ taken	Resolution
1	Item No 1: Discussion on significant activities made by IQAC during 2016-17 for curriculum development revision.	• Use of ICT in Teaching – Learning Process: Institution has enforced use of NPTEL in all the courses. It has 725 subjects, 25000+ Video lectures. • Faculties are using Wikispace, MOOCS, MOODLE e-books and e-journals. This has made them use modern teaching process such as blended learning and flopped class room teaching. • Quiklrn Rollout: Quiklrn is an innovative technology platform that encourages learners to create an interactive learning environment and enables them to contextually build their learning paths. The platform with it's superior learning experience is expected to provide better learning outcomes. As part of Quiklrn's Experiential Learning offering, Quiklrn assists students to hone their business skills and acumen, preparing them to face the challenges of real life business situations and create differentiation for themselves. • Modules of Professional Practice: Undergraduate students from III semester to VI semester are provided with professional practice from recognized organizations. The contents of the modules are as follows: a. III Semesters: Communication Skills, Communication with Confidence & Clarity, Verbal Analogies, Positive Attitude, Self-Analysis & Self-Management and Group Discussion. b. IV Semester: Communication Skills, Stress Management, Group Discussion & Presentation Skills, Motivation and Assertive Communication c. V Semester: Body Language & Proxemics, Interview Skills, Resume Writing and Aptitude Test Preparation. d. VI Semester: Individual Counselling & Guidance, Career Orientation, Work Ethics, Interpersonal relations, Adapting to the Corporate Culture, Balancing Personal & Professional Life and Roles & Responsibilities	Approved
2	Discussions on Books/Chapters published / authored by faculty and number of MoUs	Committee proposed to procure the relevant available data for the above mentioned ones from the authenticated data sources.	Approved
3	Strategic discussions on plan of action / outcomes proposed by IQAC for next year	i. To enhance the number of PhDs. To create more awareness programs in the institution so as to motivate faculties to register for PhD; as a continued result of this till now 112 faculties have registered and are pursuing PhD. ii. Pedagogy training: Three in house pedagogy training program were conducted for faculties. 70 faculties have undergone the training and have adopted the new teaching learning process. iii. Promoting the paper publication in scopus / Web of	Approved

		Science indexed journals. Faculties are encouraged to publish papers in reputed journals. The number of publication made and their impact factor are considered during up gradation of AGP and for promotion. iv. **Encouraging faculties to patent their work.** Faculties have been given orientation about the procedure of patenting and its benefit. Further institution assists the faculty in filing the patents, including financial assistance. After filing the patent, if possible to productionise the patent, the institute partners. Further, from the proceeds of the patented product, from sales, a certain percentage of profit are shared with the faculty. As a result of the encouragement given, 10 patents have been filed during the year as compared to only three in the year 2014-15 v. **Setting up Centre of Excellence.** Institution has planned & is striving hard to set up CoE in all disciplines. As of now a CoE is set up in Macro electronics. vi. **Up gradation of technical skills of technical staff members:** To enhance Academic and Administrative Excellence in the college, the institution assesses the training needs among different group of technical staff. Technical staff are either trained in house by calling experts for teaching or deputed for training in various technical Institutes or to attend seminars/conferences. vii. **Innovative activities** – Faculty and students have been actively involved in innovative active students clubs viz, Ashwa Racing, Team Vyoma, Team Chimera, Team Garuda, Team Helios, Solar Car Team, Project Jatayu, Team Astra, Team Krushi, Team Antariksh, Frequency club, team hydra, entrepreneurship development cell and coding club	
4	**Number of Programme syllabus revisions / updates during this year**	• The Self Study be refereed as Experiential Learning from 2016 scheme and syllabus. For experiential learning 16 credits are assigned. These credits are covered from 3rd semester to 6th semester. • The number of courses in each semester should not exceed 6 (excluding HSS and Bridge courses). • The 8th semester should consists of Project work for 16 credits, Technical seminar for 2 credits and Innovation and Social skills (HSS) for 2 credits. • The mathematics-III and Mathematics IV be cluster wise. • Material science /Biology was included in 3rd semester for 2 credits and Environmental Science in 4th Semester for 2 credits. • For lateral entry diploma students, the Bridge course in mathematics has to be included in 3rd semester and Bridge curse on C programming to be included in 4th Semester. • Professional practice I to focus on communication English for 22-24 hours of class room teaching. For II and III year soft skills for 18 hours/semester. • The title of the course Constitution of India is called as "Indian Constitution and Legal studies for Engineers".	Approved

		• There are 3 open electives in 2016 scheme out of which, one open elective in fifth semester and one open elective in sixth semester and one elective in seventh semester. The number of credits for open electives is 4 + 3+ 3= 10 credits.	
5	**Discussions on Innovative practices adopted by Institution for Teaching Learning & Evaluation**	1. Practicing Outcome Based Education (OBE) system of Education 2. E-Learning solution of automatic recording and distribution of classroom lectures on the flipped class model. 3. Blended learning with NPTEL and QEEE. 4. Establishment of Collaborative Laboratories with industry 5. Open ended experiments 6. Rubrics to assess lab experiments and projects. 7. Promoting research culture among the students from first year onwards. 8. Projects for Community Service. 9. Internships during semester breaks. 10. Encourage inter disciplinary and multi-disciplinary approach for projects. 11. Motivate and help students to do minor and major projects in domain related areas. 12. Encourage interdepartmental student projects 13. Augmentation of labs with state of art equipment. 14. Funding for multi-disciplinary projects 15. Awards for best student projects. Some projects are leading to patents 16. Financial support to student for presenting technical papers	Approved
6	**Measures taken by IQAC to monitor and evaluate Teaching Learning Process**	1. **Monitor of conduct of internal assessment:** There is college level academic monitoring committee. There is a process in place to monitor the conduction of internal assessment. The college provides the calendar of events in which the schedule of Quiz and Test are published in the beginning of every academic year. 2. **Monitors academic activities of various departmental committees:** There are few academic committees in each department. They are Board of Studies (BoS), Board of Examiners (BoE), Academic and monitoring committee. Board of Studies looks after the academic requirements. There are external members as per the statutory requirement. BoE looks after the examination question paper standards and the faculty evaluating it. The academic monitoring committee has a greater responsibility to look after day to day activities as per the academic needs. 3. **Train the faculty on Bloom"s taxonomy and programme outcomes:** There are various levels in which Bloom"s Taxonomy and programme outcomes are being peculated to faculty members. The fresh assistant professors are provided with pedagogy training programing during which the basis and the process to be followed in mentioned. The Academic monitoring and BoE monitors into the Bloom"s adaptation in the question paper. The BoS monitors monitor both CIE and SEE for Bloom"s taxonomy and programme outcomes.	Approved

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IQAC Coordinator

Chairperson