



National Education Society (R.)

## Jawaharlal Nehru National College of Engineering, Shivamogga

(Approved by AICTE, New Delhi, Certified by UGC 2f & 12B, Accredited by NAAC –'B',

Recognized by Govt. of Karnataka and Affiliated to VTU, Belagavi)

### INTERNAL QUALITY ASSURANCE CELL



Date: 3-9-2019

#### Proceedings of the 27<sup>th</sup> Meeting of IQAC, held in the Meeting Hall, AD Block at 4.00 PM on 27.8.2019

#### 1. Members Present:

Sl. No.	Name	Designation	Dept.	Remarks
1.	Dr. H. R. Mahadevaswamy	Principal	-	Chairman
2.	Dr. S. V. Sathyanarayana	Professor	ECE	Coordinator
3.	Dr. L.K. Sreepathi	Vice Principal	Mech.	Member
4.	Prof. R. K. Baliga	Assoc. Prof.	Physics	Member
5.	Dr. M. G. Krishnamurthy	Professor	MBA	Member
6.	Dr. C. G. Hemamalini	Professor	Civil	Member
7.	Sri. S. N. Nagaraja	Secretary	NES	Management Rep.
8.	Mr. N G Ajjanna	Asst. Professor	EEE	Research Scholars Rep.
9.	Ms. Ashika A Jain	-	3 <sup>rd</sup> MBA	P G Student Rep.

Dr. K. M. Basappaji, Sri. Sharath S Bhoopalam, Sri. Suresh S, Ms. Misreena S {Members} were granted leave of absence.

#### 2. Agenda:

1. Initial remarks by the Principal/Chairman-IQAC
2. Review of previous meeting proceedings and action taken
3. Updates
4. Remedial Classes and mentoring for slow learners
5. Research Funding and its utilization
6. Resource optimization
7. NBA process – Next Steps
8. Relook on conduction of Preparatory Exam for first year
9. Process of Identifying and handling of Bright & Weak Students
10. Any other topic with the permission of the chair

#### 3. Proceedings:

1. After welcoming all the members to the meeting, the IQAC Coordinator placed before the members the agenda of the meeting, which was already circulated along with the meeting notice. Also, he introduced all the new members and welcomed them to the meeting.
2. The Chairman-IQAC (Principal), formally welcomed the members to the fourth meeting of this year, and in his initial remarks, presented briefly the highlights of the agenda of the meeting. He informed that IQAC initiated many quality initiatives and many of them are practiced. He also told that AQAR has to be submitted in the month of October and in this regard IQAC has to work

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towards ensuring complete compliance with the recommendations made in the Peer Team report. Also, he informed that IQAC was restructured by nominating the members from Alumni, Student representatives and mangament.

3. IQAC Coordinator gave a brief review of previous meeting proceedings and the action taken thereon:
  - I. Academic and Administrative Audit – AAA: Next Action Plans
    - a. Audit Check list and form were ready
    - b. Department AAA audit schedule to be prepared
  - II. Involvement of stake holders in NBA Process
    - a. Stakeholders' meetings would be planned after NBA visit dates are confirmed.
    - b. Faculty members were asked to share the details of NBA with students frequently.
  - III. Enriching contents of Institution Handbook: 2019-20
    - a. Handbook : 2019-20 with various additional information printed and distributed to newly admitted students
  - IV. Restructuring IQAC: Done as under:
    - a. UG Representative: Misreena S, III Year, Civil Engg.
    - b. PG Representative: Ashika A Jain, II Year MBA
    - c. Industry Representative: Mr. Sharath Bhupalam, Techno Rings, Shivamogga
    - d. Alumni Representative: Mr. Suresh, PAC, Shivamogga
    - e. Management Nominee: Secretary, NES
4. IQAC Coordinator presented updates on important developments and programs conducted in the institution and at department level:
  - a. NBA Process
 

All the seven departments submitted e-SAR on 15.8.2019

*The SARs for the following programmes applied with the application 3819 has been received by the NBA:*

S. No.	Discipline	Level	Program	Format
1	Engineering & Technology	Under Graduate	Civil Engg.	Tier II
2	Engineering & Technology	Under Graduate	Computer Science & Engg.	Tier II
3	Engineering & Technology	Under Graduate	Electronics & Communication Engg.	Tier II
4	Engineering & Technology	Under Graduate	Mechanical Engg.	Tier II

*The SARs for the following programmes applied with the application 3820 has been received by the NBA:*

S. No.	Discipline	Level	Program	Format
1	Engineering & Technology	Under Graduate	Electrical & Electronics Engg.	Tier II
2	Engineering & Technology	Under Graduate	Information Science & Engg.	Tier II
3	Engineering & Technology	Under Graduate	Telecommunication Engg.	Tier II

**b. (i) Programs organized at institution level:**

- I. Inauguration of First Year UG classes and Orientation Program:
  - First year classes were inaugurated on 11.8.2019
  - Chief Guest: Mr. Kumar Bangarappa, MLA, Soraba Constituency



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- 550+ newly admitted students and their parents attended the program
- NES directors and Life Members were present in the program
- Rank Holders were felicitated
- Institution Handbook and Prospectus were released

II. First Year Induction Programme : 13.8.2019 to 23.9.2019

Induction program for the first year was conducted as per the guidelines from AICTE and VTU. Eminent resource persons delivered the sessions. There were many activity based sessions and the students enthusiastically and actively participated and appreciated the program.

**Some Important Sessions:**

- Scientific Temper
- Oral Communication
- Environmental Awareness
- Self Confidence & Discipline
- Accreditation & Assessment
- Details of Cultural & Sports Events
- Blood Donation Awareness & Blood Donation
- Yoga
- Tree Plantation
- Student & Literature
- Youth & Social Responsibility
- Human Rights

**(ii) Programs organized at Department level:**

- I. Two week FDP on “Paradigm Shift in Higher Education Teaching: Vision 2030”
- II. One Week Skill Development Training to Supporting and Technical Staff

During 08/07/2019 to 19/07/2019 by Dept. of Management Studies, JNNCE

**Inaugurated by:** Prof. S. S. Patil, VC, Kuvempu University

**Guest of Honor:** Dr. R C Hiremath, Former Principal KLE Nijalingappa College, Bangalore

**Delegates:** **FDP:** 30+ faculty members; **SDT:** 40+ Supporting and Technical Staff

**Details:**

**FDP:** 17 sessions were arranged on various topics on new dimension in higher education and was delivered by eminent resource persons

**SDT:** 19 technical sessions were arranged on various themes like Negotiation and Conflict Management, Role of Non-Teaching Staff in the Changing Scenario of Engineering Colleges Developing Professional Attitude and Personal Values, Work ethics and motivation, Time Management and addressed by eminent resource persons along with an Out bound Training Programme.

**Convener:** **FDP:** Dr. Vikrama D K      **SDT:** Ms. C. K. Anuradha      Dept. of MBA

- III. Two Week National level workshop on "Recent Trends in Multimedia processing and wireless sensor Networks “ during 15 -27, July 2019 by E & C Department in association with ISTE, New Delhi

**Inaugurated by:** Dr. Jayakumar Singaram, Founder & Techlead, Rianu Semiconductors, Bangalore



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**Delegates:** 29 faculty members.

**Details:**

**Total Sessions:** 45 **No. of resource persons:** 11

**Topics Covered:**

Cognitive Computing using CPU,GPU,FPGA, Innovative algorithms for Computer Vision, Bots , Video Compression Principles and Standards, Video Coding Fundamentals, Applications and research areas in WSN, Continuous speech recognition-Cognitive science application , Car/Automotive Multimedia systems, Infotainment system Android Automotive system Intelligent Parking Assist System (IPAS), Application of Machine learning for pathological speech signals, Video text reader(Recognition of overlay text in videos), Applications of Block Chains

**Conveners:** Ujwala B S, Nalina S B, T S Harish, E & C Dept.

Sri. S. N. Nagaraja suggested to analyze the effectiveness and outcome of the FDP to see that how much knowledge gained by the faculty member is transferred to students. It was resolved to devise a process to measure the effectiveness and outcome of the FDP.

- IV. Three days “Skill Development Training for the Staff of Hostel and Transport Staff”  
24.07.2019 to 26.07.2019

**Inaugurated by:** Sri. S. N. Nagaraja, Secretary, NES

**Guest of Honor:** Sri. T. R. Ashwathanarayana Setty, Vice President, NES

**Delegates:** Hostel Staff: Transpiration Staff:

**Details:**

10 Sessions were arranged. Separate sessions were arranged for Hostel & Transport Staff.

**Topics for Hostel Staff:** House Keeping & Maintenance, Stores and Facility Management, Safety and Security issues, Hygiene and Cleanliness, Orienting their attitude towards students, Service Etiquettes and Handling Emergencies

**Topics for Transportation Staff:** Safety and Security, Observance of Motor Vehicle and Traffic Rules, Repairs and Maintenance of Vehicles, Time and Route Management, Communication with Colleagues, parents, students, public and Authorities & Administrative Reporting, Service Etiquettes and Handling Emergencies

**Common session:** Physical and Mental Fitness & Yoga for Meaningful Life

Sri S N Nagaraja informed that frequency of such programs to hostels staff to be increased

- V. National conference on “Recent Trends in Applied Sciences and Computing Engineering” (NCRASCE-2019) in association with ISTE, New Delhi : 26-27, July 2019

**Inaugurated by:** Prof. C. S. Bagewadi, Emeritus Professor, Kuvempu University

**Guests of Honor:** Prof. I S Shivakumar , Bangalore University & Prof. Bhandari Shanker, Osmania University

**Delegates:** 35 participants - govt. first grade colleges, engineering colleges, research scholars from other universities and in-house faculty.

**Details:**

**Three Tracks: Track1:** Theoretical Mathematics: 16 ; **Track2:** Applied Mathematics: 29

**Track3:** Application of Mathematics in Science/ Engineering/ Management: 06

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Selected papers would be published in JJEM Institution Journal as a special issue

**Valedictory Program:** Prof. G.D. Veerappa Gowda, TIFR-CAM, Bengaluru & Dr. B.J.Gireesha, Kuvempu University

**Convener:** Dr. M R Krishnamurthy, Asst. Professor, Mathematics

- VI. Two Days Workshop on “Conflict and Stress Management” on 23<sup>rd</sup> & 24<sup>th</sup> Aug.2018 by MBA Dept.

**Inaugurated by:** Mr. Vasanth Kumar Hittanagi, Retd. Joint Labor Commissioner

**Delegates:** 86 participants - JNNCE, Govt. first grade colleges, Doctors from Subbaiah Medical College, Govt. Hospital Madikeri, Research Scholars from Manipal, Faculty from PESITM, National Pharmacy College, Retired Engineers, School Teachers, Paper Town, Bhadravathi, Housewives

**Details:**

**Topics:** Conflict Management, Stress Management, Aerobic Exercises and Live Demo Class on Basic Life Support System

**Resource Persons:** Mr. Vasanth Kumar Hittanagi, Dr. Aravind, Ms. Sunitha Chetan, Dr. Lakshmi Hemanth

All Participants actively participated and appreciated the program

Aerobic Studio was inaugurated for the benefit of Women Staff & Girl Students

**Convener:** Ms. Aishwarya V Hittanagi, Asst. Professor, MBA

c. **Campus Recruitment Status**

2018-19: UG: 251 / 348 = 72 %	
Department	No. of offers
Civil Engineering	04
Mechanical Engg	24
EEE	09
ECE	67
CSE	70
ISE	58
TCE	14
MBA	143
MCA	05

2019 -20: UG: TCS: 20	
Department	No. of offers
ECE	16
CSE	18
ISE	04
TCE	01
MCA	01

d. **Achievements in Sports**

- JNNCE Team – Winners in VTU Central Karnataka Zone Badminton Men and Women Tournament held at SJMIT, Chitradurga on 26<sup>th</sup> Aug.2019
- Qualified for Inter-zone Badminton Men and Women Tournament which will be held at SJMIT, Chitradurga on 27<sup>th</sup> to 29<sup>th</sup> Aug.2019

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Department	Seats Admitted
Civil Engineering	92
Mechanical Engg	81
EEE	54
ECE	111
CSE	124
ISE	119
TCE	37
MBA	44*
MCA	38*

UG Admission 2019-20	
Quota	Seats admitted
Management	122/177
COMEDK	89/102
CET	371/441
SNQ	36/36
<b>Total</b>	<b>618/756 =82%</b>

\* Process still on

**f. Result Analysis: 2018-19 –Even Semester****II Semester**

SI No	Branch	APPEARED	PASS	FAIL	%PASS
1	Computer Science & Engg	127	103	24	81.1
2	Electronics & Communication Engg	118	89	29	75.42
3	Telecommunication Engg	49	28	21	57.14
4	Mechanical Engg	88	55	33	62.5
5	Information Science & Engg	119	93	26	78.15
6	Electrical & Electronics	59	43	16	72.88
7	Civil Engg	85	63	22	74.12
	<b>OVERALL</b>	<b>645</b>	<b>474</b>	<b>171</b>	<b>73.49</b>

**IV Semester**

SI No	Branch	APPEARED	PASS	FAIL	%PASS
1	Civil Engg	141	86	55	61%
2	Electrical & Electronics	73	47	26	64%
3	Electronics & Communication Engg	149	103	46	69%
4	Computer Science & Engg	145	101	44	70%
5	Information Science & Engg	98	56	42	57%
6	Telecommunication Engg	47	30	17	64%
	<b>OVERALL</b>	<b>653</b>	<b>423</b>	<b>230</b>	<b>65%</b>

**VI Semester**

SI No	Branch	APPEARED	PASS	FAIL	%PASS
1	Civil Engg	139	131	8	94%
2	Mechanical Engg	145	72	73	50%
2	Electrical & Electronics	75	55	20	73%
3	Electronics & Communication Engg	131	112	19	85%
4	Computer Science & Engg	150	130	20	87%
5	Information Science & Engg	97	73	24	75%
6	Telecommunication Engg	52	31	21	60%
	<b>OVERALL</b>	<b>789</b>	<b>604</b>	<b>185</b>	<b>77%</b>



**VIII Semester**

SI No	Branch	APPEARED	PASS	FAIL	%PASS
1	Electronics & Communication Engg	126	126	0	100
2	Telecommunication Engg.	46	45	1	97.83
3	Mechanical Engg	116	114	2	98.28
4	Information Science & Engg	117	115	2	98.29
5	Electrical & Electrnics Engg	43	42	1	97.67
6	Civil Engg	133	126	7	94.74
7	Computer Science & Engg	134	133	1	99.25
	<b>OVERALL</b>	<b>715</b>	<b>701</b>	<b>14</b>	<b>98.04</b>

Sri S N Nagaraja informed IQAC to analyse the results and organize a meeting with concerned HoDs to discuss /plan the action plan to improve the results.

**5. Agenda Point 4:** Remedial Classes and mentoring for slow learners

IQAC Coordinator presented the Preamble and present scenario of the agenda and set the discussions.

**Preamble:** Based on the student's performance in examination, slow learners would be identified. To improve the performance of such students remedial classes are to be arranged. Mentoring such students is also very important to identify and convince their weaker area & the benefit of the initiatives of the institution.

**Present Scenario:**

- Based on the result analysis courses which needs remedial class are identified
- Remedial Classes were organized
- Faculty who can effectively take class and convince the students was identified
- Response from the students was not so encouraging!!!
- Mentors were allocated to students
- Mentoring seems to be not very effective!!!

**Proposal:**

(i) Mentors to be made responsible

(ii) Rewarding Mentors

(iii) Based on significant improvement in the results of such students the respective mentors may be awarded

Sri. S. N. Nagaraja, Secretary, NES, was of the opinion that the effectiveness of the teaching of the faculty members has to be evaluated and the teachers to be made responsible; mentors to perform their role properly and motivate the students to attend the remedial classes arranged. The members agreed for the proposal of rewarding the mentors when their mentees showed significant improvement in academic performance. Also, he told that video recording of classes could be done which would help the students for further reference and also, the effectiveness of the teaching could be evaluated.

The members agreed for the proposal of rewarding the mentors when their mentees showed significant improvement in academic performance.



**Recommendations:**

- a. Mentoring to be made more effective and there should be a proper follow up of mentoring process at the department level by the respective HoDs and the mentor coordinators
- b. Mentors would be rewarded by Commendation Certificate if their mentees performed well as a result of their mentoring.

**6. Agenda Point 5: Research Funding and its utilization**

IQAC coordinator placed a brief overview and proposal about the agenda:

**Preamble:**

Research Funding & its utilization was an important component in Institution Ranking & Accreditation. Ample of funding opportunities were available. Faculty members and students need to write proposals, pursue and utilize the opportunity.

**Status:**

- Funds from NewGen IEDC, TBI, JNNRIC, JNNCART were available
- Poor utilization!!!

**Proposal:**

- To educate and handhold faculty members and students on writing funding proposals
- Organize awareness programs

The Principal discussed the various funding opportunities available and told that utilization was very poor in NewGen IEDC, JNNRIC and JNNCART schemes. Faculty members were unable to perform in multitasking manner. He also told that the series of department level meetings were conducted by staff members of CIE to create awareness about the funding options available under CIE.

Sri S N Nagaraja informed that Professors / Associate professors to motivate/ handhold faculty members to write funding proposals and involve in research.

**Recommendations:**

- a. It was recommended to organize awareness programs to faculty members and students to write proposals and handhold them in implementation stage

**7. Agenda Point 6: Resource optimization**

IQAC coordinator placed a brief overview and proposal about the agenda:

**Preamble:** Resource Optimization is required in every segment of the institute development.

**Various segments need to be looked into for optimization:**

- Manpower
- Infrastructure
- Facilities: Lab, furniture etc.
- Finance Management
- Green Initiatives

IQAC coordinators requested the Principal to present more details about the agenda.

The Principal discussed various options and possible areas of optimization. He shared the details of adjusting the workloads of the departments by using the staff members of other departments





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where there was excess staff. He also suggested the facilities / infrastructure could be shared optimally as a central facility like furniture, lab equipments etc. All these optimizations would have impact on finance management and one could see an improvement in the overall development of the organization.

**Recommendations:**

- a. It was resolved to identify and list various possible areas of optimization and communicate to the departments about the details of arrangements made in usage of resources / facilities

**8. Agenda Point 7: NBA process – Next Steps**

IQAC coordinator placed a brief overview and proposal about the agenda:

**Preamble:** NBA e-SAR was submitted. Departments were informed to prepare for the visit.

Various tasks to be completed were communicated.

**Some of the important steps:**

- Fine tuning documental evidences
- Strengthening OBE practice in the current semester
- Computation of attainments of 2015 batch onwards
- Infrastructure & Facility up-gradation
- Organizing Stakeholders awareness program

**Proposal:**

To plan periodical audit and follow up

IQAC coordinator discussed the details of the preparation and the plan. The following were the steps already taken as a part of NBA visit:

- NBA coordinators meeting was planned on every Thursday at 4.00PM to review the progress.
- Student’s awareness programs were planned. A common presentation material about NBA process would be shared across all the departments to share among students.
- Review of HoDs presentation was planned in first week of Sept.2019.

Sri. S. N. Nagaraja suggested calling special IQAC meeting to review NBA preparation.

**Recommendations:**

- a. It was recommended to arrange periodical reviews / audit of NBA preparation in the department level.

**11. Agenda Point 8: Relook on conduction of Preparatory Exam for first year**

IQAC coordinator placed a brief overview and proposal about the agenda:

**Preamble:** Preparatory Exam was conducted for the first year students as a measure to improve the results and reduce the detention rate. In the last semester it was conducted as a third test. There was an apprehension from the students that the institute is deviating from the University regulations.

**Present Scenario:**

Compare to 2017-18 first year results detention rate is reduced by 50%

	<b>2017-18</b>	<b>2018-19</b>
Total	664	645
Detained	115	53
%	<b>15</b>	<b>8</b>



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- IQAC coordinators explained the consequence of preparatory exam conduction in the last year and presented the improvement in the results.
- The Principal and the other members suggested communicating to university to requesting the permission to conduct preparatory exam indicating the improvement in the results of 2018-19.
- Dr. L K Sreepathi suggested to conduct the exam for 50 marks and to include all the modules as portions for the exam.
- Sri. S. N. Nagaraja suggested adapting cumulative portions system for all the tests so that students would have continuously prepared and updated.
- All the members felt that conducting preparatory exam was a good move towards improving student's performance and were of the opinion that it should be continued this year without violating the university regulations.

### Recommendations:

- a. To conduct the preparatory exam in conformity with university regulations
- b. To arrange first year faculty meeting to discuss the plan of conducting preparatory exam

### 12. Agenda Point 9: Process of Identifying and handling of Bright & Weak Students

IQAC coordinator placed a brief overview and proposal about the agenda:

**Preamble:** As per NBA guidelines, there should be a standard process document for identifying and handling Bright & Weak Students.

### Status:

- Members of AMC had drafted a process and was ratified in 25th IQAC meeting on 2.5.2019.
- This process document was communicated to all departments
- The NBA experts and some departments had some doubts / queries about the practicality of the process defined.

### Proposal:

- To relook into the existing process and revise as per the suggestions given by experts
- All the departments to follow the revised process

IQAC coordinator presented the existing process and the proposed changes to all the members and sought the suggestions / inputs. The members went through the proposed process thoroughly and suggested changes. The corrections were implemented and the process was finalized as indicated in **Annexure 1**.

### Recommendations:

- a. To place and discuss the finalized draft in NBA coordinators meeting.
- b. All the departments to follow this process from current academic year.

As there was no other subject, the meeting concluded, with the Coordinator thanking all the members for their active participation.

To:

All the members and HODs of all the departments

  
(Dr. H. R. Mahadevaswamy,  
Principal & Chairman-IQAC  
Principal  
Jawaharlal Nehru  
National College of Engineering  
Shivamogga.



**ANNEXURE – I**

**Process to identify & support weak students and identify & encourage bright students**

**1. Process to identify of weak students**

Weak students are identified using the following process:

- I. When the students are admitted to first Semester, their PUC Marks / Grade is considered as the reference to identify weak students. Here, bottom 15% students of PUC Marks / Grade admitted to the department are considered.
- II. Second Semester onwards students' performance in previous semester (CIE and SEE put together) are taken as the reference. Here, bottom 15% of previous semester performance is considered.

**2. Process to support weak students**

- I. Mentor to call and update the parent / guardian personally and discuss their ward's performance.
- II. Concerned teacher to initiate Peer Learning and ensure that a bright students assist /guides the weak students
- III. Concerned teacher to arrange remedial classes / one – one interaction as sought/required by the weak students
- IV. Concerned teacher to provide additional course materials / solutions in numerical courses and evaluate the performance
- V. Concerned teacher to assign tasks in the respective course and to clarify the doubts and evaluate the performance
- VI. HoDs in consultation with mentors to identify and appreciate the students registering 10% improvement in SGPA.

**3. Process to identify bright students**

Bright students are identified using the following process:

- I. When the students are admitted to first Semester, their PUC Marks / Grade is considered as the reference to identify bright students. Here, top 15% students of PUC Marks / Grade admitted to the program are considered.
- II. Second Semester onwards students' performances in previous semester results (CIE and SEE put together) are taken as the reference. Here, top 15% of previous semester performance is considered.

**4. Process to Encourage bright students**

- I. Mentors to encourage the bright students to achieve higher level of performance and assign challenging tasks like presenting& publishing paper, undertaking research-oriented &hobby projects, taking NPTEL courses on advanced topics.
- II. Institution to offer financial assistance to participate in TWO technical events per semester
- III. Institution to award Cash incentives to bright students scoring more than 80% or 8.5SGPA