



Jawaharlal Nehru National College of Engineering, Shivamogga

ಜವಾಹರ್‌ಲಾಲ್ ನೆಹರು ರಾಷ್ಟ್ರೀಯ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯ, ಶಿವಮೊಗ್ಗ



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Internal Quality Assurance Cell (IQAC)

Ref. No.: JNNCE/IQAC/11/2019-20

Date: 9-11-2019

Proceedings of the 28th Meeting of IQAC, held in the Meeting Hall, AD Block at 4.00 PM on 5/11/2019

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. K. M. Basappaji	Professor	Mech.	Member
7.	Sri. Sharath S Bhoopalam	-	Industry Rep.	Member
8.	Sri. Suresh S K	-	Alumni Rep.	Member
9.	Mr. N G Ajanna	Asst. Professor	EEE	Research Scholars Rep.
10.	Ms. Ashika A Jain	-	3 rd MBA	P G Student Rep.
11.	Mr. Praful T Nakadi	-	III Year	U G Student rep.

Dr. C. G. Hemamalini, Sri. S. N. Nagaraja {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. Quality Initiatives – Impact: NBA Assessment
5. Improvisation of outcome from existing MoUs with Industry / Academia
6. Participation and contributions in teaching and learning and /or research by visiting/adjunct/Emeritus faculty
7. 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.

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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 as an impact of these initiatives, all the seven UG departments had applied for NBA assessment. A NBA expert team visited four departments during 18-20 October, 2019 and for other three departments, another team would visit during last week of Nov. 2019. He invited the coordinator to continue the proceedings.
3. IQAC Coordinator gave a brief review of previous meeting proceedings and the action taken thereon:
 - I. Remedial Classes and mentoring for slow learners
 - a. Recommendations of IQAC were brought to the notice of the departments to handle the remedial classes & mentoring process effectively. Also, proposal of rewarding the mentors - if a significant outcome of the mentoring was observed - was also communicated to the departments.
 - II. Research Funding and its utilization
 - a. Awareness meetings were organized at department level by the project coordinators of CIE and, the faculties, along with the students, were informed about the available funding & its utilization process.
 - III. Resource optimization
 - 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 - **Pending**
 - IV. NBA process – Next Steps
 - a. NBA Assessment of Civil, Mech., ECE & CSE – completed
 - b. Stakeholder awareness programs were arranged
 - V. Relook on conduction of Preparatory Exam for first year
 - a. Meeting with first year faculty was being scheduled during second week of Nov. 2019 to discuss the modalities of conduction in line with the university regulations
 - VI. Process of Identifying and handling of Bright & Weak Students
 - a. Updated process was communicated to all the departments
 - VII. Academic & Administrative Audit
 - a. AAAC core committee had finalized the Audit check-list and communicated to departments.
 - b. Using this check-list one round of External Audit was carried out by inviting Senior faculty from nearby institutes
 - VIII. Result Analysis
 - a. Result analysis of the Even Semester: 2018-19 was done. The course with result less than 75% was identified and action plans for the improvement were sought from the concerned course teacher.



4. IQAC Coordinator presented updates on important developments and programs conducted in the institution and at department level:

i. NBA Process

- a. NBA expert team visited during 18th– 20th Oct.2019 to assess four programs: Civil, Mech, ECE & CSE
- b. 9 Members team under the chairmanship of Dr. Mirza Tariq Beg, Professor & Head, Department of Electronics & Communication Engineering, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi
- c. After the two days proceedings, the members shared the strengths and the scope for the improvements in the Exit meeting held on 20.10.2019.

ii. MoUS

- a. Wadia Techno Engineering Services Limited, Bangalore - Wadia is an Architectural and Engineering Consultancy organization and JNNCE will provide consultancy services such as Structural Design, Soil Testing, Proof Checking and Material Testing for Construction Materials like cement, steel, bricks, sand, coarse aggregates, water etc in the proposed Development of Main Campus & various Infrastructural facilities at University of Agricultural & Horticultural Sciences, Iruvakk, Shivamogga.
- b. Subbiah Institute of Medical Sciences, Shivamogga – Joint Research Collaboration
- c. Brainstorming session was organized on 23.10.2019 at SulMS campus. Around 15 faculty members participated and possible areas of research which could be jointly taken up were explored
- d. DVS Science & Arts College, Shivamogga – Research Collaboration

iii. Programs Organized by Departments

(i) One Day VTU Consortium Training Program on “E- Sources for Academic Excellence” was organized by Library & Information Centre on 30th Aug. 2019

Funded by: VTU, Belagavi; Rs. 25,000/-

Inaugurated by: Dr. K R Mulla, Chief Librarian, VTU

Resource Persons: Representatives of the reputed Journals & Books

Participants: PG &UG Students, Research Scholars and Faculty Members

Highlights: 8 Sessions containing use of E – Resource, different Features leading to quality improvement of Teaching Learning Process, Research among member institutions.

Publishers: ICE, Elsevier, Emerald, New Age International, Taylor & Francis, Net Analytics, Turnitin

(ii) One Day Training Program on “Elastic Search Engine – Hands on Approach” was organized by CSE Dept. on 14th Sept. 2019.

Resource Person: Mr. Karthik Shastry, Sr. Software Engineer, Sakhatech Information System Pvt. Ltd., Bangalore (JNNCE – Alumni)

Participants: CSE Dept. 30+ students

Coordinators: Mr. Benakappa S M & Mr. Sandeep B



(iii) Student Development Program on “CNC Machining & 3D Printing – Hands on Approach” was organized by Dept. of Mechanical Engg., [Weekend Program]

Inaugurated on: 14th September 2019

Participants: 5 batches of students – Batch Size: 10 students

Coordinator: Dr. H Raghavendra, Professor, Mechanical Dept.

(iv) Invited talk on “Leap to the Career” was organized by Mechanical Engg. Dept. on 16th Sept. 2019

Resource Person: Mr. D R Raghavendra Pandith, Consultant – System Implementation (Foundry)

Participants: Staff & Students of Mech. Dept.

Coordinators: Mr. Shanthikiran & Dr. Rajath Hegde

(v) Two days SDP on “Advanced VLSI Design using Cadence EDA Tool”- a Hands on – approach” by ECE dept. during 21-09-2019 and 22-09-2019 - Partial Delivery of the curriculum by Industry Professionals

Resource Person: Mr. Syed Salman, Team Lead, Sankalp Semiconductors, Hubli

Participants: 7th Sem. Students

Topics:

Understanding Process corners, Running simulation for process corners and calculator usage in cadence, Single stage common source amplifier theoretical discussion, Common source amplifier layout DRC+LVS verifications, Parasitic extraction from layout

Outcome: Usage of Cadence tools as per Industry requirements

Coordinators: Mr. Pradeepa S C & Anil Kumar J

(vi) ISE Department: “Students Technical Club” with a focus on Artificial Intelligence, Machine Learning & IoT areas was inaugurated on 21.9.2019

Chief Guest & Resource Person: Ms. Rashmi Sooryanarayana, Centre Head, DxC Tech. Shivamogga

(vii) Three days training program on “Business Analytics” was organized by Dept. of MBA during 23rd Sept. 2019 to 25th Sept. 2019.

Resource Persons: Mr. Uttam & Mr. Omkar, M/s Business Toys, Bangalore

Participants: 120 MBA students

(viii) One day workshop on “Basics of Semi-conductors & Electronics” by ECE dept. in association with IETE Centre, Shivamogga on 21st Sept. 2019

Participants: 50+ II PUC students of Akshara PU College, Shivamogga

Resource Persons: II & III Year students of ECE dept.

(ix) Invited Talk on “Reinforcement Learning & its Applications” was organized by TCE Dept., on 23 Sept. 2019

Resource Person: Mr. Sandeep Kumar E, Sr. R & D Engineer, Robert Bosch, Banfalgore

Participants: 30+ students

Coordinators: Mr. ShashiKiran S & Madhusudan G

(x) Invited talk on “Management & Entrepreneurship Development” was organized by TCE Dept., on 27th Sept. 2019



Resource Person: Ms. Rashmi Sooryanarayana, Center Head, DxC Tech., Shivamogga

Participants: 38 students of II Year & 32 students of III Year

Coordinator: Ms. Rashmi M H

(xi) Three Day training program on “Android – Hands on Approach” during 3rd - 6th October 2019 by MCA Dept.

Resource Person: Mr. Raghupathi S, Mrs. Jyothi Raghupathi and Mr. Vasanth, Professionals, Step in Technologies, Shivamogga

Participants: 35+ students of 3rd & 5th Semester

Coordinator: Mr. Hemanth Kumar

(xii) Center of Innovation & Entrepreneurship, JNNCE organized One day Workshop on “Student Solar Ambassadors Workshop” driven by IIT Bombay under GandHI Global Solar Yatra Initiative on 2nd Oct. 2019

Inauguration: Mrs. Ashwini Udupa, Lead Design, Tata BP Solar, Bangalore

Participants: 275+ students of JNNCE & DSDN Polytechnic

About the Program: Students learnt to assemble Solar kits & actively participated in the Quiz conducted at the end of the program. Around 18 Trainers cum Coordinators (Instructors of ECE, EEE Depts) & 10 student volunteers managed the workshop successfully

Coordinators: Mr. Mallesh Kumar & Mr. Nrupathunga, Project Coordinators, CIE

(xiii) PLASMA 2019: Two Days National Technical Symposium was organized by Dept. of E & C in association with IETE Shimoga Centre during 4th & 5th Oct. 2019

Inaugurated by: Mr. Prashanth Ramappa, Principal Data Scientist, AT & T, Bangalore

Participants: 800+ students including 300+ students from various parts of country [Tamilnadu, Kerala, Pondicherry, Andrapradesh, Goa, Hyderabad, Belagavi, Bangalore, Mangalore]

About the Program: Robo Based events – Robo race, Line Follower, Robo Soccer ; Arduino Uno, C Debugging, Dr. Circuit, Paper Presentation, Hobby Project Competition.

Highlight of the Program: Completely driven by Students

Outcome: Leadership & Team work, Communication Skills, Self-Learning Ability, Knowledge-sharing

Coordinators: Mr. Sharath S M, Mr. Ajay Betur P, Ms. Shwetha H R

(xiv) Training program on “Experience-sharing, GD, Mock Interview” was arranged by Placement Cell in association with JNNCE Alumni Association on 12th Oct. 2019.

24 Alumni volunteered as resource persons and conducted department-wise sessions for 3rd & 4th year students.

(xv) Technical Training program on “Java Programming” was arranged by MCA Dept. in association with Training & Placement Cell on 22nd to 25th Oct. 2019.

Trainers: Q Spiders Bangalore

Participants: MCA students



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An Interaction Program on “Successful NBA Accreditation” was organized for the faculty members of Basic Science, EEE, ISE & TCE Departments on 2.11.2019.

Resource Person: Dr. Guruprasad, Dean Student Affairs & Professor, CSE Dept., BMSCE, Bangalore

Topics: Rubrics for Project Evaluation, Continuous Improvement, Innovations in Teaching, Program Outcome Analysis, Support for Weak Students and Techniques of handling questions during NBA Visit

v. Campus Recruitment : 2019-20

Dept.	No. of Offers
CSE	35
ECE	29
ISE	09
TCE	02
EEE	01
MCA	02
Total	78

vi. Achievements in Sports

- JNNCE is bestowed with 3rd Place among VTU colleges in Sports achievement and awarded Rs.1 Lakh under VTU scheme for promotion of sports in the institution
- Cash Prize along with certificate was presented during “Achievers Day” function held on 19th Oct. 2019 at Bangalore
- JNNCE Power Lifting team secured One Gold, One Silver and Runners-up Trophy in VTU Intercollegiate Power lifting Competition held at NMAMIT, Nitte
- Soundarya, 7th Sem Mechanical Engg., has been awarded “Strong Woman of VTU” Trophy
- JNNCE Taekwondo Men team secured One Gold and Women Team secured 3 Bronze Medals in VTU Single Zone Taekwondo Men & Women Championship held at GAT, Bangalore
- Mr. Suresh appreciated the many events conducted by the departments and various achievements and raised a query about the outcome and usefulness of such events to students. The Principal informed that the students gain the knowledge and improve the skill set, but no real outcomes like job generation was seen out of the events.
- Dr. M G Krishnamurthy suggested to include a field in the event template to indicate the Program Outcome (PO) mapped to the event conducted.
- Dr. S V Sathyanarayana presented the suggestions made by the NBA expert team to indicate the respective Program Outcome mapping to the topics of the events in the program Schedule itself.



5. Agenda Point 4: Quality Initiatives – Impact: NBA Assessment

IQAC Coordinator presented the Preamble along with gist of the NBA exit meeting and set the discussions.

Preamble:

- 13th IQAC Meeting on 27th Feb. 2018 NBA Process was discussed and initiated as a Quality Initiative
- 17th June 2019: Pre-qualifier was submitted by all the 7 UG Programs
- 15th Aug 2019: SAR was submitted
- 18th Oct 2019 – 20th Oct. 2019: NBA Expert team visited to assess 4 Programs
- 22nd Nov. 2019 -24th Nov. 2019: NBA Expert Team is scheduled to 3 Programs

Gist of Exit Meeting

Comments by the Chairman

- Institution has performed commendably well in the past 39 years.
- Good Student admission
- Infrastructure is absolutely fantastic
- Sports facility is very good – By making provision in the time table, give time for students to cherish the facility, because holistic development of the student is also very important.
- Allow students to mingle each other – Discipline is very good
- OBE is a method of improving quality of education – practice / embrace OBE for improving quality of education – not for mere documentation.
- Staff members are very hardworking and dedicated
- Comparatively good salary – Faculty members to push themselves towards research

Scope for Improvement

- OBE understanding & Practice
- Industry supported Laboratories
- Interaction with outside World
- No adjunct faculty
- Student Performance
- Academic Audit & Monitoring
- Faculty Performance Appraisal & Development System – Actions Taken
- Research Time for faculty
- Consultancy
- Separate Project Lab
- Less Core Companies Visiting for Placement
- Quality Publications by Faculty / Students
- External Research Funding & its Utilization



IQAC coordinator placed the following proposal which was derived by the observations made by the NBA experts and invited the members to give inputs regarding the proposal.

Proposal:

To take up:

- OBE understanding & Practice in True Spirit
 - Brainstorming Sessions to faculty by experts to be organized
 - Periodical Audit of OBE process
 - Research Time for faculty
 - Separate Project Lab
 - Quality Publications by Faculty / Students
- i. **OBE understanding & Practice:** Principal was of the opinion that many experts had visited the institution and trained the faculty members on OBE. Now, the faculty members should conduct brainstorming sessions and practice OBE. Also, use Automation Software – DHI effectively by using NBA module and NBA coordinators should discuss to finalize the requirements in NBA module. Vice Principal made his remarks that training by experts would be a theoretical input; rather the faculty members of the respective programs should themselves discuss & finalize COs / mapping and practice OBE.
- ii. **Research Time for faculty:** Principal commented that if the faculty members manage the time properly with the present work load, they can pursue research work, only they should work with passion & commitment. Vice Principal opined that if the DHI software is used effectively, faculty could save the time.
- iii. **Project Lab:** Dr. S V Sathyanarayana informed that NBA experts asked for separate Project Lab space as per the NBA guidelines. Principal was of the opinion that the labs which are not used in the respective semester could be used as the Project Lab. Further, he informed that space is available in Library / SAC building, if departments submit the proposal for separate Project Lab with proper justification of usage it would be considered.
- iv. **Quality Publications:** All the members felt that faculty should motivate / guide students to take up quality project work and involve with them, so that the work could be converted to a publication.

Recommendations: Following recommendations were made:

- a) DHI – NBA module should be used effectively. NBA coordinators to meet and decide the requirements in NBA module.
- b) Faculty members to conduct brainstorming sessions to finalise COs – mapping – curriculum gap - innovation in teaching – process of handling weak & bright students and practice OBE in true spirit.
- c) OBE process in the department level should be audited periodically
- d) Departments to submit proposals for separate project lab space with proper justifications of its utilization.



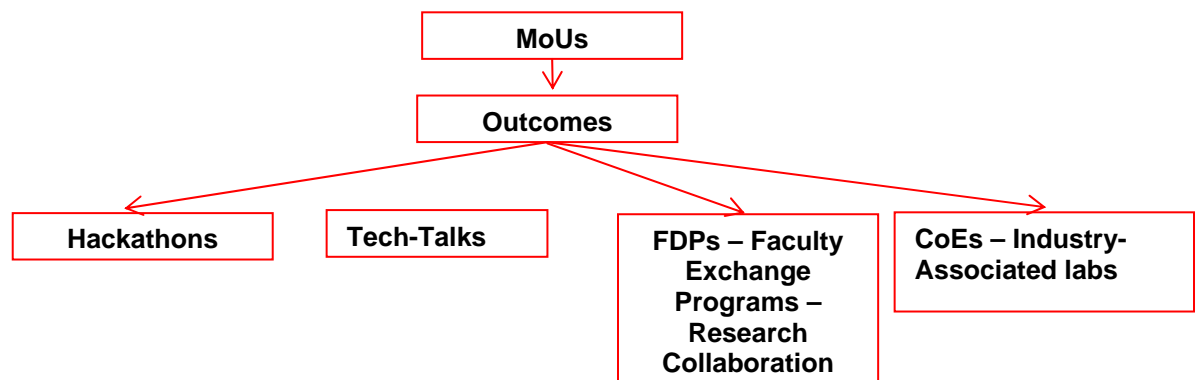
- e) Faculty members to involve and motivate students to take up quality project and generate quality publications.

6. Agenda Point 5: Improvisation of outcome from existing MoUs with Industry / Academia
IQAC coordinator placed a brief overview and proposal about the agenda:

Preamble:

- Institute has signed MoUs with around 17 Industry/Academic Organizations
- **Focus:** Research Collaboration, Technical Activities, Student Enrichment Programs, Faculty Knowledge up-gradation
- **Important MoUs:**Qualitas Tech. Bangalore, CISCO RVCE, Silfra Tech. Bangalore, Sugama Academy for Excellence, Mysore, Lekha Wireless Solutions, Bangalore, Malnad Alloy Casting, Shivamogga, JSSS & T University, Mysore
- **Status:**Few programs were organized

Proposal:



Members discussed in length about the above possible outcomes and the following suggestions were made:

- Mr. Sharath Bhupalam said that faculty should be involved in internship / project work so that the students would work seriously and with interest so that quality work / outcome could be seen.
- Vice Principal suggested that the departments to be directed to plan for the programs / collaborative work under the existing MoUs. Also, he discussed with the industry representatives about the possibilities of using unused / old version equipments and establishing an industry associated laboratories in the institution, for which the former agreed to examine and report back soon.
- Principal suggested the following:
 - Identify the students/ faculty
 - Identify the thrust area
 - Work with commitment
 - Collaborate with the industry / company and work effectively



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Recommendations:

- Departments to plan effectively to make use of the existing MoUs as suggested above.
- Faculty to involve in research with commitment and make use of industry collaborations.

7. Agenda Point 6: Participation and contributions in teaching and learning and /or research by visiting/adjunct/Emeritus faculty

IQAC coordinator presented the preamble and proposal about the agenda:

Preamble:

- As per NBA guidelines: Visiting/Adjunct/Emeritus faculty is Mandatory
- This topic was placed at the 25th IQAC meeting and it was resolved to direct the departments to identify suitable adjunct faculty

Benefits:

- Better Quality of Teaching – Exposure to recent & emerging developments, trends & issues – exposure to research issues

Proposal: To identify adjunct faculty in each department from next academic year

Principal informed that there were proposals in the last semester and it could not be materialized. He requested the industry representatives to help in suggesting / identifying the visiting / adjunct faculty. Mr. Sharath Bhupalam and Mr. Suresh agreed and asked to provide the details of regulations in identifying the visiting / adjunct faculty.

Recommendations:

- It was resolved to direct the departments to make sincere attempt to identify visiting / adjunct faculty and submit the proposals.

8. Agenda Point 7: Any other points

The following points were discussed and resolved

- To include a module of handling weak / bright students in Dhi
- Program Assessment Committee to meet frequently to discuss the academic activities of the department
- To direct the Academic Monitoring Committee to prepare the checklist of the contents of mentoring file and communicate to the departments.

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


(Dr. H. R. Mahadevaswamy)

Principal & Chairman-IQAC

To: All the members and HODs of all the departments

Chairman
Internal Quality Assurance Cell
Jawaharlal Nehru National
College of Engineering, Shivamogga.