



BMS COLLEGE OF ENGINEERING, BENGALURU

Autonomous College under VTU

MINUTES of ACADEMIC COUNCIL MEETING # 08 held on 29.04.2015

MINUTES OF THE EIGHTH MEETING OF THE ACADEMIC COUNCIL HELD ON 29.04.2015 AT 3.30 PM IN STUDIO 11, DEPARTMENT OF ARCHITECTURE, WORKSHOP COMPLEX, BMSCE.

MEMBER PRESENT

Dr.K.Mallikharjuna Babu	Chairman	Dr.S.Muralidhara	Member
Dr.G.N.Sekhar	Member	Dr.L.Ravikumar	Member
Dr.K.Rajanikanth	Member	Dr.D.Seshachalam	Member
Dr.Lawrence Jenkins	Member	Dr.K.J.Rathan Raj	Member
Dr.S.Seetharamu	Member	Prof. K.R.Madhu Chand	Member
Dr.Venkateswaran Narayanan	Member	Dr.H.S.Guruprasad	Member
Mr.D.V.Jagadish	Member	Dr.B.Kanmani	Member
Dr.Madhusudhan V. Atre	Member	Dr.Samita Maitra	Member
Dr.R.Venkatram	Member	Dr.H.N.Suma	Member
Mr.Subhashish Pal	Member	Dr.M.Rajyalakshmi	Member
Mr.Veerendra Kumar Giridhar	Member	Dr.T.S.Pranesha	Member
Dr.Vinod C. Aralimatti	Member	Dr.Y.Chandrasekhar Reddy	Member
Dr.P.Martin Jebaraj	Invitee	Dr.M.S.Dharma Prakash	Member
Dr.S.Nagendra	Invitee	Dr.M.Indiramma	Member
Dr.H.S.Jagadeesh	Invitee	Smt.G.Poornima	Member
Dr.K.Guruprasad	Invitee	Dr.Ravishankar Deekshit	Member-Secretary
Dr.Mamatha P. Raj	Invitee		

LEAVE OF ABSENCE

Mr.Eckhard Neise	Member
Dr.Gowrishankar	Member
Dr.S.Jayanthi	Member
Dr.K.Narasimha Rao	Member
Dr.Santhosh R. Desai	Member
Dr.B.V.Ravishankar	Invitee
Dr.Suresh Ramaswamy Reddy	Invitee

Dr.K.Mallikharjuna Babu, Principal, BMSCE and Chairman, Academic Council extended a cordial welcome to all the members/invitees to the eighth meeting of the academic council. The Chairman informed the members that the Academic Council has been reconstituted and the following members have been invited to join the Council.

1. Dr. S. Seetharamu, Director, Central Power Research Institute
2. Dr.Venkateswaran Narayanan, Head, India Corporate Research Centre, ABB Global Industries and Services Ltd
3. Mr.D.V.Jagadish, CEO, Outreach, International Institute of Information Technology
4. Dr. Lawrence Jenkins, Professor (Retd.) & Former Chairman, Dept. of Electrical Engineering, IISc
5. Dr. K. Rajanikanth, Former Principal, MSRIT, Bangalore



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6. Dr. Madhusudan V Atre, CEO & Founder, Vegashakti Consultants
7. Dr. R. Venkataram, Vice President, S-VYASA University
8. Mr. Subhashish Pal, i-Trust Informatics (P) Ltd.
9. Mr. Veerendra Kumar Giridhar, Consulting Architects
10. Mr. Eckhard Neise, Chief Technical Officer, TATA Advanced Materials Ltd

The Chairman informed that it was a privilege to have such distinguished members on the Academic Council. He further emphasized that he looks forward to their co-operation and valuable contribution to the deliberations in the meetings of the Academic Council.

The Chairman also welcomed the following internal members and introduced them to the other members of the Academic Council:

1. Dr.M.S.Dharmaprakash, Professor of CHE
2. Dr.M.Indiramma Professor of CSE
3. Smt.G.Poornima, Associate Professor of EC
4. Dr.Santhosh R. Desai, Assistant Professor of Intrn

The Council welcomed the new members. The Chairman, placed on record the services rendered by the following outgoing members:

- 1 Dr.Ajit Kalgahatgi
- 2 Dr.M.H.Kori
- 3 Sri.C.P.Ravikumar
- 4 Sri.Aravind Srinivas
- 5 Dr.Navakantha Bhat
- 6 Dr.T. Srinivas
- 7 Dr.Gopal Mugeraya
- 8 Sri.Shivakumar
- 9 Dr.Vijay Kumar
- 10 Sri. Bhagawan Singh
- 11 Dr.L. Venkatesha
- 12 Sri.C.K.Chandra Babu

The Chairman then made a brief presentation on BMSCE, particularly highlighting the progress achieved since getting autonomy. The Chairman apprised the members regarding some of the innovative methodologies introduced in T-L-P and curriculum design leveraging on the academic autonomy.



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In their opening remarks, the new members shared the following viewpoints:

- Dr.Rajinikanth opined that the most prominent feature of an autonomous institution is its willingness to experiment and BMSCE has showed ample evidence for that through various teaching-learning innovations/pedagogies introduced since getting autonomy.
- Prof.Lawrence Jenkins appreciated the overall approach of the Institution towards implementation of academic autonomy as envisaged.
- Dr.Madhusudan V. Atre desired to know about the type and area of R&D activities being performed and derived outcomes. He also desired to know about the inter-departmental initiatives undertaken. He also expressed his happiness that the institution is running a Medical Electronics Programme.
- Dr.R.Venkataram laid emphasis on empowerment and enlightenment of students as one of the important considerations of autonomy. Autonomy should be utilized in the best interest of students.
- Mr.D.V.Jagadish and Mr.Subashish Pal offered to significantly contribute to mission of the academic council.
- Dr.S.Seetharamu stressed the need to address aspects related to energy, power and science. He emphasized need to generate interest in IPR and consultancy activities.
- Dr.V.Narayanan stressed the need for more industry-institute interaction activities and reduce the gap between industry and institute.

The Chairman then informed the members that as resolved in the seventh meeting of the Council held on 11.07.2014, students of different departments are being invited for the first time to share their remarks / opinions / suggestions towards further augmenting the academic quality / processes.

1. The students of ME expressed the need for more important and essential software particularly during 3rd-8th semesters of their study
2. It was felt that Laboratory manual is hampering creative learning
3. Some aspects of curriculum to be fine-tuned to enable coherent approach free from academic gaps
4. To offer the discrete mathematics course in CSE to analyze algorithms. The council suggested that appropriate academic committees shall take note of the same for necessary inclusion of discrete mathematics as core subject.
5. Computer Science Programme should have less of theory and more of programming and problem solving aspects.
6. Open classes, encouraging multi-disciplinary student projects were some of the other suggestions made.
7. Strong open electives across departments
8. To have more hands-on workshops for the benefit of Architecture students. Introduce more architectural software in addition to Archicad.



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Dr.Ravishankar Deekshit, Dean (Academic) and Member Secretary, Academic Council took up the agenda.

1. Confirmation of the minutes of Seventh Academic Council meeting held on 11.07.2014

The minutes of the Seventh Academic Council Meeting held on 11.04.2014 were confirmed.

2. Action taken report on the decisions of Seventh Academic Council meeting

The Dean, Academic presented a brief report about the action taken on the decisions of 7th Meeting of the Academic Council held on 11.07.2014.

The Academic Council noted the Action Taken Report (ATR) on the decision taken in the 7th Meeting of the Academic Council held on 11.07.2014 and concurred.

3. A brief report on the Academic Activities for the period from August 2014 till Date

The report on the academic activities of the Institution for the period from August 2014, presented by the Chairman was noted. The Chairman highlighted the following key points in his Report:

- The Annual Intake of UG Programmes enhanced by 100 seats; Mechanical 60 and Architecture 40
- Two new PG Programmes started – VLSI Design & Embedded System and Manufacturing Science & Engineering with a total intake of 48 seats.
- Five Innovation laboratories (Propel Labs) were established in areas like Robotics, 3D Printing, Aerospace, Automotive and PBL with Wipro to supplement student research endeavors.
- Internet Bandwidth enhanced from 80 Mbps to 180 Mbps
- BMSCE is one of the first institutions in India to be bestowed the Tier-I Accreditation Status by Nation Board of Accreditation (NBA) under Washington Accord. Out of 11 UG programmes, five programmes have been accredited for a period of 05 years and rest for the period of 02 years.
- Conducted about 70 industrial visits and organized 150 Guest Lectures, and more than 100 seminars/conferences and workshops
- Established Bharat Ratna Dr.C.N.R.Rao Chair in Science
- Successfully conducted the first International Conference on "Transformation in Engineering Education" ICTIEE 2015 which was held from 6 to 8 January 2015
- Real time transmission of wireless communication link on the 70 MHz carrier OR the 2.4 GHz carrier, using the Wi-COMMT Benchmark kit (TE)
- Two units of the NI-USRP (obtained on loan) from National Instruments, for conducting real-time experiments on Software Defined Radio (TE)
- Advanced Digital communication Lab covering RF and wireless communication equipment under co-founding scheme from Key-sight Technologies to setup RF and wireless Equipment to strengthen PG /UG teaching and research (EC).



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- Renovation of PG/existing laboratories by augmenting workstations/ computers (CS).
- Procured Flow code Software (CS).
- Established Centre of Excellence in Internet of Things in association with Altimetrik, Bangalore (MCA).
- Development of Point of Care (POC) device development Lab and development of Innovation center hosting Incubation centers for five industries (ML).
- Procured Cyber Forensic Software and I-sense wireless solution kit (IS)
- Augmented Bioinformatics /Vision lab with 3D Camera suite (IS)
- Established Biochemical Engineering lab (CH)
- Established facilities to trans-duct the signals, signal conditioning, communicate to different places and used to control the physical signals with various devices and used for application of appliances (like limit switches, encoders, diffused sensors) (IT)
- Procured a PCB machine which automatically creates a PCB using the software tools. (IT)
- Up-graded R&D Lab - Preparatory HPLC useful for isolation, quantification and purification of Biomolecules (BT)
- Upgrade Bioinformatics lab with new 'Discovery Studio Package' used in drug discovery (BT)
- Established Phase Change Memory Materials Lab under TEQIP (EE)
- Established Micro Devices lab with the support of DST (EE)

The council noted and welcomed the report. The detailed report is provided in **Annexure-I.**

4. Discussion on Choice based Credit System as per the guidelines of UGC (University Grants Commission)

The Chairman briefed the members that the Institution has been adopting the Choice Based Credit System (CBCS) in all the programmes wherein the students has the option of choosing from a wide range of electives, undergo value added courses, inter-disciplinary approach in learning and continuous evaluation process. The Chairman further informed that the Institution has been broadly adopting the Choice Based Credit System (CBCS) as per the guidelines prescribed by UGC. The statement showing the guidelines followed by BMSCE as against the UGC guidelines was presented before the Council for its concurrence.

The Council concurred that the institution has been adopting Choice Based Credit System (CBCS) in line with the UGC directives. While on the subject, Dr.Rajinikanth requested the members to make their recommendations/suggestions if any to the Principal for further improvement of the CBCS through email communication.

The approved guidelines on choice based credit system followed at BMSCE is provided in **Annexure-II.**



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5. A report on Curriculum Design & Development for higher semesters

The Dean, Academics briefed the members that the institution is currently in the process of framing syllabus for higher semesters. He further emphasized that the curriculum is intended to meet the following standards/objectives:

- Implementing Outcomes Based Education (OBE-Graduate Attributes, Programme Outcomes)
- Consider inputs from all the stake holders (Students, Faculty, Academia, Alumni, Industry and Society)
- Stress on activity based learning, communication skills, entrepreneurship etc.
- Introduction of Self Study Component
- Projects for community service (IEEE, NGOs)
- Introduction of courses during Fast Track semester
- Setting up of departmental advisory board (DAB) for advising in academic matters.
- Defining rubrics for assessment of academic instruments to enhance the attainment of POs.

The Council noted that numerous brainstorming sessions on Curriculum Design and Development have been conducted. The feedback obtained from students, alumni, employer, community, and industry is given due weightage in framing the curriculum.

6. Examination Manual (Rules & Regulations)

The Draft copy of the examination Manual prepared by the Controller of Examinations [(COE) was placed before the Council for its approval and necessary amendments if any. After detailed deliberations, the council resolved to approve the draft examination manual with specific reference to the following points:

ITEM NO 16 : NOT FIT FOR TECHNICAL EDUCATION [NFTE] – ELIGIBILITY FOR PASSING

The candidate who has not obtained eligibility to continue the course as per guidelines will be declared as "Termination from Programme" instead of "Not fit for Technical Education – NFTC"

ITEM NO 17 : REJECTION OF RESULTS OF COURSES BY THE STUDENTS WHO HAVE QUALIFIED FOR AWARD OF DEGREE, FOR IMPROVEMENT IN PERFORMANCE

The Council deliberated the matter at length and resolved that Principal be authorized to constitute a Committee to look into all aspects of the matter. The Sub-Committee shall report its recommendations to the Principal duly considering the request of the students based on necessary parameters and considerations. The Principal is authorized to take needful action in this regard.



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ITEM NO 18.3: GRACING POLICY

The Council after detailed deliberations resolved to consider the item (18.3) in question after seeking clarifications from VTU on doubts regarding conversion of grace marks into related grade points.

The approved examination manual is provided in **Annexure-III**.

7. Guidelines for Project Work Report

The Council perused in detail the draft document with format details for writing final year project work. While on the subject, the Director (R&D) informed the members that, project presentation guidelines are being derived to maintain uniformity in the reports. The Council approved the guidelines as proposed and the same is provided in **Annexure-IV**.

While on the subject, the Chairman informed the members that the Institution is in the process of creating rubrics to assess the level of student projects to ensure that all student projects are evaluated on the same scale.

8. Temporary withdrawals from the programme

The Council noted and ratified the list of students (AY 2014-15) who have temporarily withdrawn from the programme.

9. Change of Branch & Cancellation of Admissions during the Academic Year 2014-15

The Council noted the List of students permitted Change of Branch and list of gulf students who have cancelled their admissions during the Academic Year 2014-15.

10. Presentation by Cluster/Depts. heads about the preparedness of Curriculum

The Head of the Departments made a brief presentation of the respective departments for the benefit of new members of the Academic Council. The presentation specially highlighted the measures adopted towards curriculum development and delivery, comprehensive discussions and brainstorming sessions held towards this process.

The Council expressed its satisfaction and noted the information.

The meeting ended with thanks to the Chair.

Dean (Academic)

PRINCIPAL