



BMS COLLEGE OF ENGINEERING BENGALURU

Autonomous institute, Affiliated to VTU

ACADEMIC COUNCIL
MINUTES OF FIFTEENTH MEETING

30.05.2018



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ACADEMIC COUNCIL | MEETING # 15 | 30.05.2018 | MINUTES OF THE MEETING

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B. Kae.
Dean (Academic)
Member Secretary, AC

D. Ramesh
Principal
Chairman, AC



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MINUTES OF THE MEETING OF FIFTEENTH ACADEMIC COUNCIL HELD ON 30.05.2018 IN STUDIO-11, WORKSHOP COMPLEX, BMSCE.

MEMBER PRESENT

| | |
|--------------------------|----------|
| Dr.K.Mallikharjuna Babu | Chairman |
| Dr.B.V.Ravishankar | Member |
| Dr.K.Rajanikanth | Member |
| Dr.K.Kesavasamy | Member |
| Dr.S.Rajagopalan | Member |
| Dr.G.S.Venkatesh | Member |
| Prof.Srivardhini K Jha | Member |
| Dr.M.S.Shivakumar | Member |
| Dr.Ramakrishna T. | Member |
| Mr.Gadhadar Reddy | Member |
| Dr.Suresh Ramaswamyreddy | Member |
| Dr.Ravishankar Deekshit | Member |
| Dr.S.Muralidhara | Member |
| Dr.B.Ravishankar | Member |
| Dr.S.Maya Naik | Member |
| Dr.Bheemsha Arya | Member |
| Dr.C. Lakshminarayana | Member |
| Dr.G. Poornima | Member |

| | |
|------------------------|------------------|
| Dr.K.J.Rathan Raj | Member |
| Dr.Rajeshwari Hegde | Member |
| Dr.B.G.Prasad | Member |
| Dr.Radhika K.R. | Member |
| Dr.Rameshaiah G.N. | Member |
| Dr.S.B.Bhanu Prashanth | Member |
| Dr.Savithri M. Bhat | Member |
| Dr.Mamatha M.N | Member |
| Dr.Murugendrappa M.V. | Member |
| Dr.Kirti Agarwal | Member |
| Dr.P.Geethavani | Member |
| Dr.Meera A. | Member |
| Prof. S.Ramanand | Member |
| Dr.Mamatha P. Raj | Invitee |
| Dr.Mangala Keshava | Invitee |
| Dr.S.John Manohar | Invitee |
| Dr.D.N.Sujatha | Invitee |
| Dr.B. Kanmani | Member Secretary |

At the outset, the Principal, BMSCE and Chairman, Academic Council extended a cordial welcome to all the members/invitees, to the Fifteenth meeting of the Academic Council. The Chairman informed the members that the Academic Council has been reconstituted, as per the guidelines of the affiliating University (VTU). Before taking up the agenda, the Council introduced new members and extended a cordial welcome to all. The external members, newly introduced as follows:

1. Dr. K. Kesavasamy , Head, TCS, Academic Interface Programme, TCS
2. Dr. S. Rajagopalan, Professor, Institutional and Finance, IITB, Bengaluru
3. Dr. G. S. Venkatesh, Professor & PGC, VTU CPGS, VIAT, Mddenahalli,
4. Dr. K. Rajanikanth, Former Principal, MSRIT, Bengaluru
5. Dr. Leena Chandran Wadia, Sr. Consultant, Committee on the NEP
6. Prof. Srivardhini K Jha, Assistant Professor, IIM, Bengaluru
7. Mr. Gadhadar Reddy, CEO/ Founder NoPo Nanotechnologies, Bengaluru
8. Dr. M. S. Shivakumar, Vice Chancellor, CMR University, Bengaluru
9. Dr. G. Jagadeesh, Professor, Department of Aerospace Engg., IISc, Bengaluru
10. Prof. Ramakrishna, National Law School of India University, Bengaluru



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

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

1. Dr. Bheemsha Arya, HOD, Mechanical Engineering
2. Dr. Kirti Agarwal, HOD, Chemistry
3. Dr. Meera A., Professor, Electronics & Communication Engineering
4. Prof. S. Ramanand, Associate Professor, Electrical and Electronics Engineering
5. Dr. Sharada B. N., Assistant Professor, Mechanical Engineering
6. Prof. Asha G. R., Assistant Professor, Computer Science and Engineering

The Council welcomed all the new members.

The Council thanked the services rendered by all the outgoing members:

1. Dr. S. Seetharamu, Director (Retired), CPRI, Bangalore
2. Dr. Venkateswaran Narayanan, Head India Corporate Research Center, ABB
3. Mr. D.V. Jagadish, CEO, Outreach IIIT, Bangalore
4. Dr. Lawrence Jenkins, Professor (Retired), IISc
5. Dr. Madhusudan V Atre, CEO and Founder, Vegashakti Consultants, Bangalore
6. Dr. R. Venkatram, Vice-President, S-Vyasa University
7. Mr. Subhashish Pal, Founder, ITrust Informatics, Bangalore
8. Mr. Veerendra Kumar Giridhar, Consulting Architects, Bangalore
9. Mr. Eckhard Neise, CTO, Tata Advanced Materials, Bangalore
10. Dr. M.S.Dharma Prakash, Professor, Chemistry
11. Dr. M.Indiramma, Professor, CS
12. Dr. Santhosh R. Desai, Assistant Professor, EI

The Chairman then, requested the Member Secretary to take-up the agenda.

SECTION 1: ITEMS FOR CONFIRMATION

1.1 CONFIRMATION OF THE MINUTES OF FOURTEENTH ACADEMIC COUNCIL MEETING HELD ON 10.04.2017

The minutes of the Fourteenth meeting of the Academic Council held on 10.04.2017 were confirmed.



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1.2 ACTION TAKEN REPORT ON THE DECISIONS OF FOURTEENTH ACADEMIC COUNCIL MEETING

The Action Taken Report on the decisions of the Fourteenth Academic Council were noted by the Council and approved. While on the subject, the Dean Academics informed the members that, the institution is contemplating to introduce re-structured curriculum for all UG and PG programs from the Academic year 2018-19, in view of the revised Model Curriculum for various programs by AICTE, and revised guidelines from VTU.

SECTION 2: ITEMS FOR INFORMATION

2.1 STANDING OF BMSCE IN NIRF RANKING

The Chairman informed the Council that, The B.M.S. College of Engineering was ranked 67th among top 100 Engineering institutions across the country by National Institutional Ranking Framework (NIRF) launched by Ministry of Human Resource Development (MHRD). The ranking was released on April 3rd, 2018 on NIRF official website.

The Chairman thanked the Vice Principal, Deans, HODs and faculty for their contributions for the achievements. He further emphasized on the importance of Research publications - publishing quality research papers in reputed national/international journals, strengthening the Research areas and Consultancy. He informed the HODs to take note of the above parameters and put concerted efforts for improving Research outcomes in their respective departments to help in maintaining and enhancing the status in NIRF ranking.

While on the subject, the following observations were made:

Dr. T. Ramakrishna opined that, the institution shall have a separate IPR cell to have a close association with campus Research and Development Cell. He also emphasized the novelty component in all major projects. The IPR cell can then guide through prior art search of all major projects/research that can lead to patent. This step will enhance the patents of the Institution.

Dr. K. Rajagopalan suggested that, the college shall conduct more number of Outreach Programs to improve the perception score as the weightage for Peer, Alumni and industry perception is 10%.

The Council congratulated the Management, Principal, Vice-Principal, Deans, HODs, Faculty and all the Stakeholders for the accomplishment and wished for greater success in future academic endeavors.

The Principal emphasized the need for all faculty to pursue research leading to quality publications in reputed peer reviewed Journals. Further, the Council suggested to aim for better rank and to have proper action plan for strengthen the gaps.



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2.2 STARTING OF NEW UNDERGRADUATE PROGRAM IN AEROSPACE ENGINEERING

The Chairman informed the Council members that, AICTE through its communication No.F.No.South-west/1-3516083173/2018/EOA dated 10.04.2018, has approved for starting a new Undergraduate program in 'Aerospace Engineering' from the academic year 2018-19 with an intake of 60.

While on the subject, the following suggestions were made:

Mr. Gadhadar Reddy, suggested that every program can focus on one or more interesting project to demonstrate application of student learning. For example: Satellite for aerospace engineering program, Automobile for the mechanical Engineering program.

2.3 INCREASE IN INTAKE FOR UNDERGRADUATE PROGRAMS

The Chairman brought to the notice of the Council about the AICTE approval for increase in intake in the UG programs for the academic year 2018-19; the details are as provided hereunder:

| SNo | UG program | Intake | | |
|--------------|-------------------------------------|------------|------------|------------------|
| | | 2018-19 | 2017-18 | Enhanced Intake* |
| 1 | Electronics & Communication Engg. | 180 | 120 | 60 |
| 2 | Information Science Engineering | 120 | 90 | 30 |
| 3 | Electronics & Instrumentation Engg. | 60 | 30 | 30 |
| 4 | Medical Electronics | 60 | 30 | 30 |
| 5 | Bio-Technology | 60 | 40 | 20 |
| TOTAL | | 480 | 310 | 170 |

** un-aided programs*

The Council noted the matter and advised for augmenting resources in the respective departments based on the increase in intake of various programs.

2.4 ACCREDITATION STATUS OF UNDERGRADUATE PROGRAMS (NBA)

The Chairman informed the members that, all the 12 Undergraduate Engineering Programs has accredited under National Board of Accreditation (NBA), New Delhi.



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The accreditation status of Undergraduate programs is listed below:

| SNo | UG/PG | Course | Accreditation valid for Batches Graduating | | |
|-----|-------|-------------------------------------|--|-----------|-----------|
| | | | Years | From | To |
| 1 | UG | Civil Engineering | 05 | 2014-2015 | 2018-2019 |
| 2 | UG | Mechanical Engineering | 05 | 2014-2015 | 2018-2019 |
| 3 | UG | Industrial Engg. and Management | 05 | 2014-2015 | 2018-2019 |
| 4 | UG | Telecommunication | 05 | 2014-2015 | 2018-2019 |
| 5 | UG | Chemical Engineering | 05 | 2014-2015 | 2018-2019 |
| 6 | UG | Electronics Engineering | 06 | 2017-2018 | 2022-2023 |
| 7 | UG | Electrical Engineering | 03 | 2017-2018 | 2019-2020 |
| 8 | UG | Computer Science | 03 | 2017-2018 | 2019-2020 |
| 9 | UG | Information Science | 03 | 2017-2018 | 2019-2020 |
| 10 | UG | Electronics & Instrumentation Engg. | 03 | 2017-2018 | 2019-2020 |
| 11 | UG | Medical Electronics | 03 | 2017-2018 | 2019-2020 |
| 12 | UG | Biotechnology | 03 | 2017-2018 | 2019-2020 |

2.5 ACCREDITATION STATUS OF POSTGRADUATE PROGRAMS (NBA)

The Accreditation status of Postgraduate programmes is provided hereunder:

| SNo | Name of the Program | Accreditation valid for Batches Graduating | | |
|-----|--------------------------------------|---|-----------|-----------|
| | | Years | From | To |
| 1 | Construction Technology | 05 | 2017-2018 | 2021-2022 |
| 2 | Computer Science Engineering | 05 | 2017-2018 | 2021-2022 |
| 3 | Power Electronics | 02 | 2017-2018 | 2018-2019 |
| 4 | Environmental Engineering | 02 | 2017-2018 | 2018-2019 |
| 5 | Machine Design | 05 | 2018-2019 | 2022-2023 |
| 6 | Transportation Engg. and Mgmt. | 02 | 2018-2019 | 2019-2020 |
| 7 | Digital Communication | 02 | 2018-2019 | 2019-2020 |
| 8 | Electronics | 02 | 2018-2019 | 2019-2020 |
| 9 | Computer Network Engineering | 02 | 2018-2019 | 2019-2020 |
| 10 | Biomedical Signal Processing & Inst. | In the process of Application 2826, SARs of the programme is under preparation. | | |
| 11 | Manufacturing Science & Engg. | | | |
| 12 | VLSI & Embedded Systems | | | |
| 13 | Master of Business Administration | | | |
| 14 | Master of Computer Applications | | | |
| 15 | Biochemical Engineering | Yet to apply | | |



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2.6 ACCREDITATION STATUS OF INSTITUTION (NAAC)

BMSCE is accredited by National Assessment & Accreditation Council [NAAC] with CGPA of 3.41 on four point scale at 'A' grade valid from 05.01.2013 up to 04.01.2018. The Institution through Internal Quality Assurance Cell (IQAC) has successfully submitted the Annual Quality Assurance Reports for 2013-14, 2014-15, 2015-16, 2016-17 respectively.

The institution is currently in the process of preparing SSR towards Cycle II for NAAC accreditation. The institution will be making online submission of Institutional Information for Quality Assessment (IIQA) in the immediate next window commencing from 1st June 2018.

The Council noted the preparation towards NAAC accreditation.

2.7 REPORT ON SAHAYOGA-2018

The SAHAYOGA-2018 (Industry Connect) was held on 2nd March 2018, Friday at Le Meridian Hotel, Bangalore, and had representatives from 40 industries.

The Council appreciated the initiative taken towards Industry-Institute collaborations. The Council felt that, representatives of the industry may be made part of various important curricular/co-curricular activities.

While on the subject, the following suggestions were made:

Dr. K. Kesavasamy, appreciated the college in organizing the Industry Connect Meet, and the efforts in compiling the feedback from industry experts. However, he suggested that to include measurable noise-free parameters in the feedback. For example: average percentage of BMSCE student performance in the induction program by the respective industry, percentage of BMSCE students securing their first promotion.

2.8 REPORT ON RESULT ANALYSIS, CONDUCTION OF EXAMINATION AND SEE AUDIT

The Controller of Examinations (COE), briefed on Examination system, Pre and post examination activities, Exam audit, Disclosure of answer booklets, Achievement testing, Softwares used etc.,

A detailed report in this regard is provided in **Annexure-I**.



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2.9 REPORT ON ACTION PLAN FOR FIRST YEAR - DEAN (FIRST YEAR B.E.)

The matter was deferred.

2.10 REPORT ON ACADEMIC AUDIT FOR THE ACADEMIC YEAR 2017-18

The Director-IQAC, BMSCE made a brief presentation on conduction of Academic Audit (conducted jointly by the Dean-Academics and IQAC). She briefed the process of Academic Audit and the importance of sustaining quality engineering education by practicing innovative Teaching Learning Processes.

The phases followed for the conduction of academic audit is as shown below:

Phase-I: Faculty Level

Each faculty members shall do the self-analysis by covering all the parameters given in the format and submit the same to the DAC/AAC committee for verification.

Phase-II: Department Level

The Academic Audit Committee of the department (AAC) will verify the following data submitted by the faculty members and a report will be prepared and submitted to the Director-IQAC.

Phase-III: Institute Level

The team will visit the departments, record the best academic practices in the department, areas for improvement, Audit of Project/Seminar/Internship, copy of department audit etc. and prepare a consolidated report. The same will be submitted to the Principal.

While on the subject, she informed the Council that, for the academic year 2017-18, the Academic Audit was conducted during February, 2018. The detailed report on the audit and audit formats are provided in **Annexure-II**.

The council noted the report.

2.11 REPORT ON GIAN PROGRAMS

The institution has the privilege of hosting several Global Initiative of Academic Networks (GIAN) programs, an initiative in Higher Education by MHRD, aimed at tapping the talent pool of scientists and entrepreneurs, internationally to encourage their engagement with the institutes of Higher Education in India so as to augment the country's existing academic resources, accelerate the pace of quality reform, and elevate India's scientific and technological capacity to global excellence.



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A list of GIAN programs conducted/approved by BMSCE is as below:

| GIAN Courses held at BMSCE till date | | |
|--------------------------------------|---|---|
| SNo | Course Details | Dates |
| 1 | Code: 165026B01 : Title: Study of various effects of heavy metals present in bore well water on human system Foreign Faculty : Julie Basu Ray, Dillard University, United States of America Host Faculty : Dr.Samita Maitra (Chemical Engg) | 14 th Nov. 2016 to 22 nd Nov. 2016 |
| 2 | Code: 165026D01 : Title: Electric Vehicles and System Design Foreign Faculty : Kaushik Rajashekara, Department of Electrical Engineering, The University of Texas at Dallas 800 W. Campbell Rd. EC33, Richardson, TX 75080, United States of America Host Faculty : Dr. P. Meena (Electrical and Electronics) | 3 rd July 2017 to 13 th July 2017 |
| 3 | Code: 175026J04 : Title: Social Research Methods Foreign Faculty : Yogesh K dWIVEDI, United Kingdom Host Faculty : Prof. Smitha V Shenoy (MBA) | 9 th Oct. 2017 to 14 th Oct. 2017 |
| 4 | 175026H01 : The Gastrointestinal Immune System in HIV infection Foreign Faculty : Bapi Pahar, United States of America Host Faculty : Dr. Savithri Bhat (Bio-Technology) | 18 th Dec. 2017 to 22 nd Dec. 2017 |
| 5 | Code: 175026K01 Title: Pseudo-Spectral Methods And Their Applications In Solving System Of Differential Equations Foreign Faculty: Sandile Sydney Motsa, University of Swaziland South Africa Course Coordinator : Dr. Chandra Shekara G (Mathematics) | 15 th Jan, 2018 to 25 th Jan, 2018 |
| 6 | Code: 175026J08 Corporate Finance Foreign Faculty: Athambawa Jahfer, South Eastern University of Sri Lanka Sri Lanka Course Coordinator : Dr. S John Manohar (MBA) | 5 th Feb, 2018 to 10 th Feb, 2018 |
| 7 | Code: 175026D03 Shape Anisotropic Materials and Their Application in Display Devices Lachezar Komitov, University of Gothenburg, Gothenburg Sweden Course Coordinator : Dr. Gurumurthy Hegde (BMS R&D) | 19 th Feb, 2018 to 2 nd Mar, 2018 |
| 8 | Code: 175026D02 Towards Safe Cities: A Mobile and Social Networking Approach Foreign Faculty: S S Iyengar, Florida International University, USAmerica Course Coordinator : Dr. G.Poornima (Electronics & Communication) | 1 st Jun, 2018 to 6 th Jun, 2018 |



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2.12 DEPARTMENT PROFILE BY RESPECTIVE HODS

The Heads of the department, presented a brief profile highlighting the salient accomplishments of their respective departments for the academic year 2017-18. The details are enclosed in **Annexure-III**.

SECTION 3: ITEMS FOR APPROVAL (UG)

3.1 ACADEMIC CALENDAR OF EVENTS FOR THE ACADEMIC YEAR 2018-19

The proposed academic Calendar of events for the academic year 2018-19 were perused and confirmed by the Academic Council. The Council authorized the Principal to make necessary changes in the Calendar if need be.

While on the subject, the Dean-Academics informed about the conduction of unique technical event 'Phase Shift-2018' during Odd semester and an Open house/Project exhibition during even semester. Both UG and PG students are expected to participate in these technical events.

The approved Academic Calendar of events for the Academic year 2018-19 is enclosed in **Annexure-IV**.

3.2 MODIFICATION IN VIII SEMESTER SCHEME OF UG PROGRAMS

In order to ensure similar distribution of credits in the VIII semester scheme the following changes are incorporated:

- Enhanced credit for Project by 1-credit, in view of the earlier 1-credit allocated for the HSS-Institute Elective Course on Life Skills (NCC/NSS/Yoga/Sports/Cultural/etc.) was withdrawn.
- Renamed the 'Pre-Placement Training/Soft-skills (Placement)' to 'Seminar: Based on Internship/Training/Technical Paper', while retaining the credit distribution (for the ME and IM programs).

After detailed deliberations, the Council ratified the above modifications.



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3.3 RATIFICATION OF ACADEMIC RULES & REGULATIONS IN RESPECT OF BACHELOR OF ARCHITECTURE PROGRAM

The Director, Architecture briefed on the modifications made in the Academic Rules & Regulations applicable to B.Arch. Autonomous Program w.e.f. August 2017.

Further, the BOS, Architecture recommended that the Architectural Design course will be 9 hours per week in the Fast Track Semester from 2017 onwards and the students can opt to register other courses up to 12 credits including the Architectural Design course which is 7 credits.

The following amendment is placed for ratification:

Rule No-8. Course load in Fast Track Semester:

The Fast Track semester is provided for helping students who have failed in their examinations. The Fast Track semester is provided to help the student to avoid losing an academic year.

It is the discretion of the department whether to offer the fast track semester or not. Fast Track semester is a special semester and the student cannot demand it as a matter of right.

During the Fast track semester, a student is permitted to re-register for course(s) where he/she has secured F-Grade (no new courses are allowed for registration). A student is permitted to register for a maximum of 12 credits.

The student has to pay a special fee prescribed by the College to register for a course in the Fast Track semester. All courses may not be offered and the student has to opt from those courses offered by the department in a given Fast Track Semester.

The department may offer some courses based on the availability of resources in hand.

The modification in the Academic Rules & Regulations was ratified by the Council. The same is enclosed in **Annexure-V**.

3.4 LIST OF STUDENTS DISCONTINUING THE PROGRAM

The Council noted and ratified the students who have cancelled their admissions during the academic year 2017-18.



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The details are provided hereunder:

| SNo. | Name of the Candidate | USN | Branch | Date of Cancellation | Quota | Reason for Cancellation |
|------|---------------------------------|------------|--------|----------------------|---------|-------------------------------|
| 1 | AKHIL MADAN DESHPANDE | - | CV | 27-10-2017 | CET-SNQ | Cancelled in CET |
| 2 | RAASHI P RANGANATH | - | ML | 21-11-2017 | MGT | Joined Medical Course |
| 3 | SYED YUNUS SHAH | 1BM10CV052 | CV | 20.09.2017 | CET | Medical Ground |
| 4 | ANKIT SINGH | 1BM10CS008 | CS | 01-12-2017 | MGT | Personal Reasons |
| 5 | MAKESH P | 1BM10ML030 | ML | 07-09-2017 | MGT | Not Cope up with BE Syllabus |
| 6 | ARPITHA SHETTY | 1BM11AT085 | AT | 05-04-2018 | GULF | Personal |
| 7 | ADITYA KUMAR | 1BM13CS005 | CS | 20-09-2017 | COMED-K | Financial Problem |
| 8 | KARTHIK M C | 1BM13CS044 | CS | 13-09-2017 | MGT | Not Cope up with BE Syllabus |
| 9 | JAGADISH | 1BM13CV040 | CV | 02-01-2018 | CET | Joined B.Sc. (Hort) |
| 10 | K K PARVATHY MENON | 1BM13EC056 | EC | 22-08-2017 | MGT | To Continue New Course |
| 11 | M P POOVANNA | 1BM13ME072 | ME | 26-08-2017 | MGT | Not Interested to Continue BE |
| 12 | SPARSHA RANJAN | 1BM13ME105 | ME | 11-08-2017 | MGT | To Pursue BBA Course |
| 13 | NIDHI PRAKASH | 1BM14BT023 | BT | 14-10-2017 | MGT | To Pursue Business Mgt. |
| 14 | HARSHITHA MADHU | 1BM14CV047 | CV | 18-08-2017 | GULF | Personal |
| 15 | SNEHAL KUMAR | 1BM14EC114 | EC | 14-08-2017 | COMED-K | Personal Reasons |
| 16 | HARSHITH V S | 1BM14EC133 | EC | 16-10-2017 | MGT | To Pursue BBM Course |
| 17 | GARY NATHANIEL STEPHEN | 1BM14IM017 | IM | 07-03-2018 | GULF | Personal |
| 18 | SAHIL HABEEB | 1BM14IM071 | IM | 19.4.2018 | MGT. | To Pursue Another Course |
| 19 | PRAJWAL S M | 1BM14TE407 | TE | 23-01-2018 | DCET | To Pursue Another Course |
| 20 | SUDHARSHAN K V | 1BM15AT106 | AT | 09-10-2017 | MGT | Personal Reasons |
| 21 | SHAMBHAVI Y KASHYAP | 1BM15BT033 | BT | 07-08-2017 | MGT | To Pursue BA LLB Course |
| 22 | RAHUL MANOJ PANDIT | 1BM15BT043 | BT | 23-11-2017 | GULF | Personal |
| 23 | RAMI MAHFOUDH SAIF SAEED GHALEB | 1BM15CH065 | CH | 18-08-2017 | FOREIGN | Personal |
| 24 | KAUSHAL KUMAR G | 1BM15CS033 | CS | 04.05.2018 | MGT. | Medical Ground |
| 25 | L VIJEETH REDDY | 1BM15CS050 | CS | 19-08-2017 | MGT | Not Cope up with BE Syllabus |
| 26 | SHARATH V. | 1BM15CS141 | CS | 16-01-2018 | GULF | Personal |
| 27 | AMITH BALARAM | 1BM15CV011 | CV | 28-08-2017 | MGT | To Pursue BBA Course |



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| SNo. | Name of the Candidate | USN | Branch | Date of Cancellation | Quota | Reason for Cancellation |
|------|------------------------------|------------|--------|----------------------|---------|-------------------------------|
| 28 | ASIF SAYEED KAGZI | 1BM15EE009 | EE | 10-08-2017 | MGT | Not Cope up with BE Syllabus |
| 29 | MAYAA SHAMBHAVI | 1BM15IM020 | IM | 04-10-2017 | CET | Personal Reasons |
| 30 | POOJASHREE MEGHAL | 1BM15IM032 | IM | 28-08-2017 | CET | Not Cope up with BE Syllabus |
| 31 | RAJATH H R | 1BM15IS063 | IS | 28-08-2017 | MGT | To Pursue BBA Course |
| 32 | S AISHWARYA | 1BM15IS068 | IS | 30-11-2017 | MGT | Not Cope up with BE Syllabus |
| 33 | MOHAMMAD ZAID KHAN | 1BM15ME207 | ME | 07-05-2018 | GULF | Personal |
| 34 | FUAD ALI MOHAMMED AL-GUWAIRI | 1BM15ML033 | ML | 28-08-2017 | FOREIGN | Personal |
| 35 | CHAITANYA D G | 1BM16CH014 | CH | 07-08-2017 | CET | To Pursue Medical Course |
| 36 | NIHAL | 1BM16CH033 | CH | 27.04.2018 | MGT | Not Cope up with BE Syllabus |
| 37 | SHATOBHISHA CHATTOPADHYAY | 1BM16CH048 | CH | 07-11-2017 | MGT | Not Interested to Continue BE |
| 38 | ANUDEEP M RAI | 1BM16CS018 | CS | 03-08-2017 | MGT | Joining Medical 2017-18 |
| 39 | ASHUTHOSH PAWAR M | 1BM16CS019 | CS | 09.08.2017 | MGT | To Pursue his in Abroad |
| 40 | AISHWARYA JAYAKUMAR | 1BM16CS131 | CS | 10-08-2017 | GULF | Personal |
| 41 | SUDARSH G | 1BM16CV100 | CV | 18-08-2017 | MGT | Not Cope up with BE Syllabus |
| 42 | NAVEEN BHARDWAJ GUDAPARTHI | 1BM16EC143 | EC | 28-08-2017 | FOREIGN | Personal |
| 43 | GAHANA S | 1BM16EI011 | EIE | 12.1.2018 | MGT. | Not Cope up with BE Syllabus |
| 44 | ABHISHEK DEVKAR | 1BM16IM001 | IM | 11-08-2017 | CET | To Pursue BBM Course |
| 45 | NADIG ADITYA | 1BM16IS110 | IS | 28-12-2017 | FOREIGN | Personal |
| 46 | AJAY H G | 1BM16MBA03 | MBA | 30-08-2017 | PGCET | Family Problem |
| 47 | N TAAHIRAH ANJUM | 1BM16MCA23 | MCA | 04-10-2017 | MGT | Personal Reasons |
| 48 | ISHU RAJ | 1BM16ME064 | ME | 13-09-2017 | MGT | Not Cope up with BE Syllabus |
| 49 | JAYANT KUMAR TEKKE VEEDU | 1BM16ME204 | ME | 21-08-2017 | GULF | Personal |
| 50 | MANAPPA T A P MADAR | 1BM16ME412 | ME | 31-08-2017 | DCET | Joined SJCE Mysore |
| 51 | SIDDARAMAPPA | 1BM16ME432 | ME | 08.05.2018 | CET | Financial Problem |
| 52 | VIJAY B | 1BM16ML026 | ML | 27.3.2018 | CET | Appearing for NEET-2018 |
| 53 | ESAM SALEH NAJI ALHWOID | 1BM16ML028 | ML | 03-04-2018 | FOREIGN | Personal |
| 54 | SAKEN GAMLIN | 1BM17CV137 | CV | 28.04.2017 | MGT | Medical Ground |
| 55 | BIRAJ ARYAL | 1BM17CV201 | CV | 19-01-2018 | FOREIGN | Health issues |



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| SNo. | Name of the Candidate | USN | Branch | Date of Cancellation | Quota | Reason for Cancellation |
|------|----------------------------------|------------|--------|----------------------|---------|-----------------------------|
| 56 | SWAMY S K | 1BM17CV420 | CV | 23-02-2018 | DCET | Personal Reasons |
| 57 | ANKOSH MAHADEV | 1BM17EE008 | EE | 01-12-2017 | CET | Joined Indian Navy |
| 58 | REWANA SITALA | 1BM17MBA47 | MBA | 19-12-2017 | FOREIGN | Health issues |
| 59 | ABHISHEK | 1BM17ME006 | ME | 20-01-2018 | CET | Joined Indian Army |
| 60 | MADDULURI JOEL ANURAG WILLIAM | 1BM17ME198 | ME | 28-03-2018 | GULF | Personal |
| 61 | PRATYUSH BOHARE | 1BM17ME202 | ME | 09-05-2018 | FOREIGN | Personal |
| 62 | DHEERAJ GOWDA H S | 1BM17TE014 | TE | 24-10-2017 | CET | Joined Medical Course |
| 63 | NAVNEET BHATT | 1BM17TE031 | TE | 16.4.2018 | COMED-K | Seeking BE Adm. Through JEE |
| 64 | RAGHAVENDRA KUMAR DESAIYYARU | 1BM17IM406 | IM | 06-03-2018 | DCET | Health Ground |

3.5 LIST OF STUDENTS FOR TEMPORARY WITHDRAWAL


The Council noted and ratified the list of students who have temporarily withdrawn from the programme for the academic year 2017-18 (August 2017 onwards). The details are provided hereunder:


| SNo | USN | Name of the Student | Date of issuing | UG/PG | Duration |
|-----|------------|------------------------|-----------------|-------|-------------|
| 1 | 1BM16EE051 | Mr.Sathwik G. Shetty | 21.08.2017 | UG | 2 semesters |
| 2 | 1BM17CEE07 | Mr.Chandrabhushan | 14.11.2017 | PG | 1 semester |
| 4 | 1BM13CV043 | Mr.Karthik B.S. | 27.11.2017 | UG | 1 semester |
| 5 | 1BM15EC009 | Ms.Anusha U. | 11.05.2018 | UG | 1 semester |
| 6 | 1BM16LEL05 | Mr.Ganesh B.N. | 16.05.2018 | PG | 2 semesters |
| 7 | 1BM17ME076 | Mr.Mahesh P.M. | 16.05.2018 | UG | 1 semester |
| 8 | 1BM15CV423 | Mr.Venkatesh Palagatti | 11.05.2018 | UG | 4 semesters |
| 9 | 1BM16CS420 | Ms.Vanitha S. | 24.05.2018 | UG | 4 semesters |

SECTION 4: ANY OTHER ITEM WITH THE PERMISSION OF THE CHAIR

The Chairman informed that it is proposed to conduct the next meeting of the Academic Council on 27 June 2018.

The meeting ended with thanks to the Chair.


Dean (Academic)
Member Secretary, AC


Principal
Chairman, AC

ANNEXURE – I

**Report on Result Analysis, Conduction of Exam
& SEE Audit by Controller of Exams**



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EXAMINATION SECTION

Prof. Suresh Ramaswamyreddy, Ph.D (IISc)

Department of Civil Engineering &

Controller of Examinations

suri.civ@bmsce.ac.in; coe@bmsce.ac.in

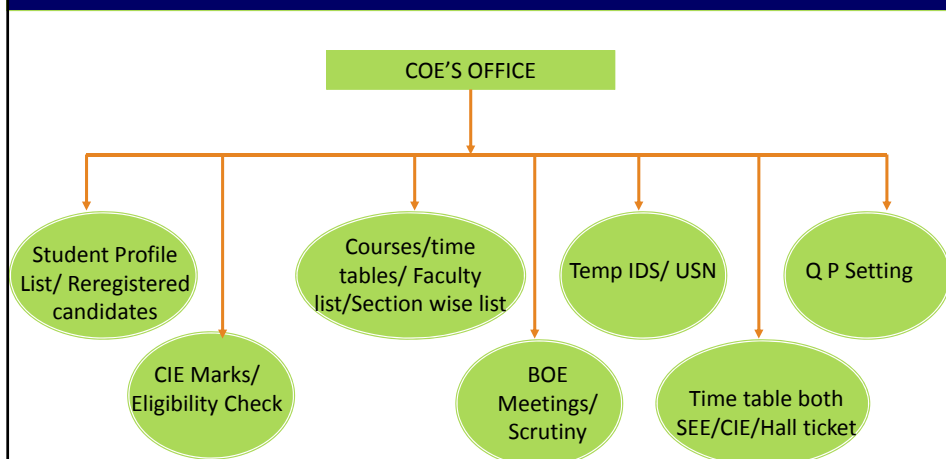
www.bmsce.in/coe

12-06-2018

COE- BMSCE

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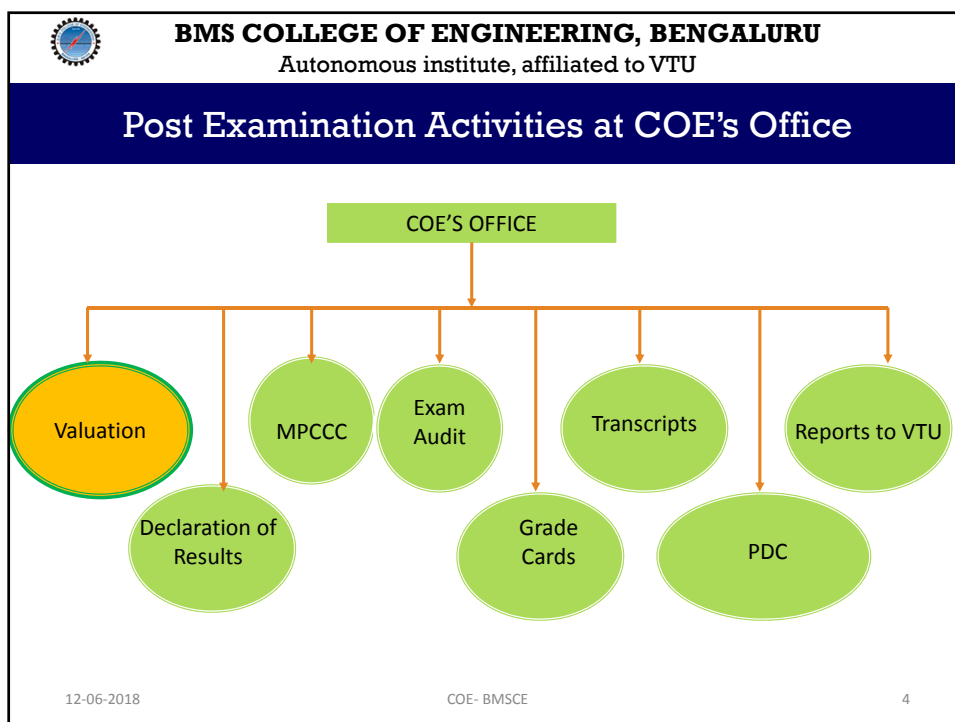
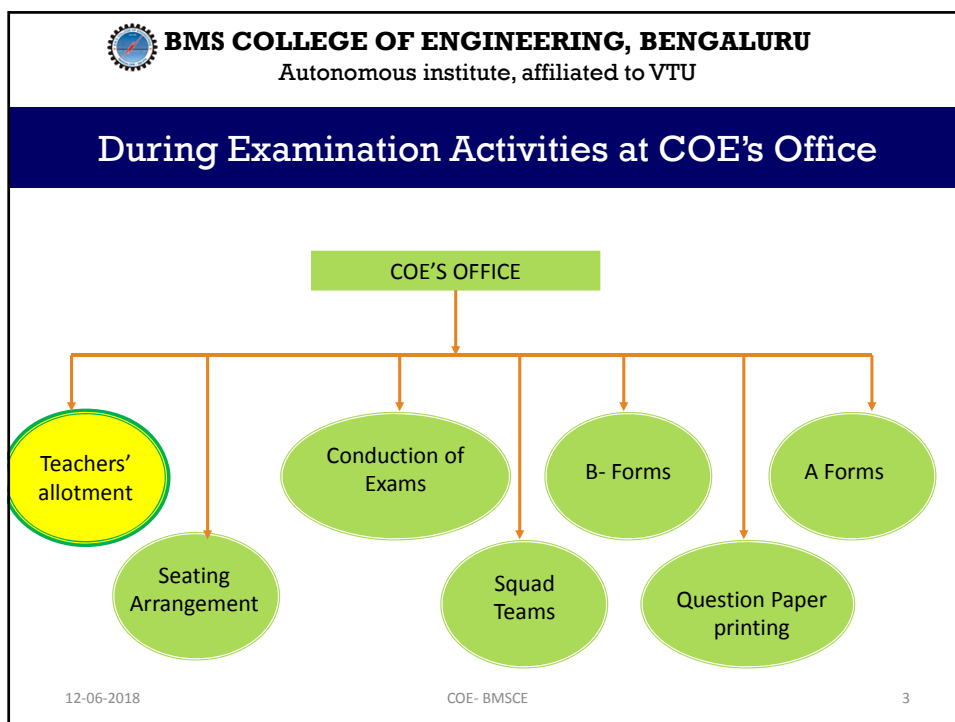
Pre Examination Activities at COE's Office

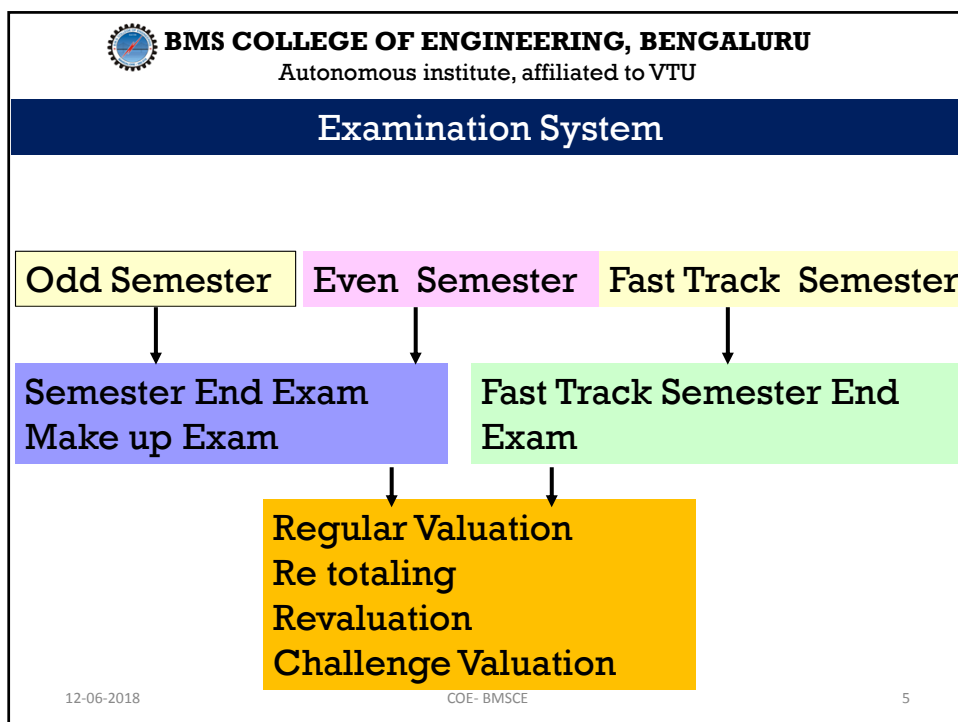



12-06-2018

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 **BMS COLLEGE OF ENGINEERING, BENGALURU**
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ACHIEVEMENT TESTING IS DONE IN TWO PARTS:

- ❖ **Continuous Internal Evaluation (CIE):** tests, assignments, problem solving, mini project, quiz and seminars.
- ❖ **Semester End Examinations (SEE):** to be conducted at the end of the course on dates to be fixed at the college level.
- ❖ **Both CIE and SEE have equal weightage (50:50)**

6/12/2018 COE- BMSCE 6


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SEMESTER END EXAMINATION (SEE)

- ❖ SEE shall be conducted jointly by the course instructor and an external examiner appointed for this purpose by the office of COE.

6/12/2018

COE - BMSCE


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BMS COLLEGE OF ENGINEERING, BENGALURU

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PASSING STANDARDS (ABSOLUTE GRADING)

| METHOD OF EVALUATION | COURSE-WISE | | | |
|--|-------------|------------|----------------------------|---------------------|
| | Weightage | | Passing Score | |
| | % | Max. Marks | % | Min. Marks |
| Sessional-CIE | 50% | 50 | $\geq 40\%$ | 20 25 PG |
| Terminal-SEE | 50% | 50 | $\geq 40\%$ $\geq 50\%$ | 20 UG/ PG |
| CIE is Continuous Internal Evaluation SEE is Semester End Examination | | | | |

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|---|-------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------|
| GRADE POINTS | | | | | | | |
| <p>Depending on the <i>letter grade</i>, GRADE POINTS are awarded</p> <p>ABSOLUTE GRADING (based on 10 point grade scale)</p> | | | | | | | |
| Level | Outstanding | Excellent | Very Good | Good | Average | Poor | Fail |
| Marks Range in % | ≥ 90 | ≥ 75 to < 90 | ≥ 60 to < 75 | ≥ 50 to < 60 | ≥ 45 to < 50 | ≥ 40 to < 45 | < 40 |
| Grade | S | A | B | C | D | E | F |
| Grade Points | 10 | 09 | 08 | 07 | 05 | 04 | 00 |

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|---|------------------------------|--|---------|-------------|--|
| AWARD OF CLASS | | | | | |
| AWARDING HONOURS | | PERCENTAGE EQUIVALENCE OF GRADE POINTS | | | |
| CGPA | HONOURS | Grade Point | % Marks | Class | |
| 5.00 to 6.25 | Pass | 5.75 | 50 | Second | |
| 6.25 to 6.75 | Second Class | 6.25 | 55 | Second | |
| 6.75 to 7.75 | First Class | 6.75 | 60 | First | |
| | | 7.25 | 65 | First | |
| More than 7.75 | First Class with Distinction | 7.75 | 70 | Distinction | |
| | | 8.25 | 75 | Distinction | |



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DISCLOSURE OF ANSWER BOOKS

- ❖ Immediately after the announcement of Results (with in 2 to 3 days), Disclosure of Answer books is facilitated.
- ❖ In case of UG, It is decided to disclose the answer books to students in the courses in which a student obtained 'F' Grade in the SEE Exam.
- ❖ In case of PG, all students are allowed to look at the answer scripts for all the courses.
- ❖ During the process of Paper seeing, if there are any correction in the Re-totaling/marks not awarded for a particular question attended, the student shall fill the same in the form, supplied to him/her at the beginning and hands over to the coordinators.
- ❖ The office of COE in consultation the BOE chair will look in to the grievances received and will initiate further process.

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COE- BMSCE

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BMS COLLEGE OF ENGINEERING, BENGALURU

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EXAM AUDIT

- ❖ At the end of every Exam – there shall be Academic Audit of Question papers/ scheme, solutions and answer books by an audit team consisting of Internal & External experts.

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COE- BMSCE

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**BMS COLLEGE OF ENGINEERING, BENGALURU**

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Soft wares

- ❖ Room allotment
- ❖ Teachers' allotment
- ❖ Statistics
- ❖ Printing the Grade cards and Transcripts
- ❖ Time table App

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COE- BMSCE

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**BMS COLLEGE OF ENGINEERING, BENGALURU**

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Exam Process

- ❖ Room allotment – through SMS
- ❖ Time table App
- ❖ Results – Website/SMS
- ❖ Declaring the results within 5 days from the last day of the examination.

12-06-2018

COE- BMSCE

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ANNEXURE – II

Report on Academic Audit-2018 by Director, IQAC

Brief report on the Academic Audit

Coordinated by IQAC and Dean
Academic

Audit details

- Faculty self – audit
- Department level audit
- Institute level audit

| Team Number | Name of the audit member | Departments to be audited |
|-------------|---|---------------------------|
| Team - 1 | Dr. S Muralidhara (Prof. CV & Dean – First year) Dr. K Narasimha Rao (Professor- EI) | PHY, CHEM, MAT, MBA, MCA |
| Team - 2 | Dr. Ravishankar Deekshit (Prof. EE & Dean – Student Affairs) Dr. Samita Maitra (Prof. CE) | ME, EC, TE, IM, EI, IS |
| Team - 3 | Dr. B. Kanmani (Prof. TE & Dean – Academic) Dr. Jayarekha (Prof. TE) | CV, EE, BT, CH, CS, ML |

Faculty level audit

- Faculty course file
- Faculty Self audit details
 - Course outcomes
 - CO-PO mapping
 - Assessment tools
 - Lecture schedule
 - Tutorial/Laboratory details
 - Self-study component
 - CIE and SEE Question papers – Bloom's taxonomy
 - CO attainment
 - CIE & SEE bar graph representation
 - Innovations in TLP or best practices

Department level audit

- Summary of contribution to PO/PSO through the courses delivered during the odd and even semesters.
- Summary of micro-level analysis of internal assessment of odd/even semester courses.
- Summary of micro-level analysis of SEE question papers of odd/even semester courses.
- Summary of CO attainment of various courses of odd/even semester courses.
- List of courses where CIE distribution is of concern.
- List of courses where COs need to be redefined.
- List of courses where the correlation factor is of concern.
- Brief description of the method used to compute the CO attainment.
- Brief description of the method of deciding the strength of the CO-PO mapping.
- Brief description of the method used to compute the PO attainment (at the end of the academic year).
- List of best academic practices of the department.
- Suggestions for improving the faculty self-audit formats.
- Action plan initiated to the comments by the previous institute level academic audit.
- Any other.

Institute level audit

- Three teams identified
- Audit schedule – twice in an academic year
February/August
- Audit team checks the faculty self-audit and the
Department level audit report
- Audit team submits a comprehensive report to IQAC
(Best practices of the department, parameters of concern
and suggestions for improvement)
- Principal, Dean-Academic and Director-IQAC suggest
suitable measures to improve the standard of academics in
the institution

[illegible]



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Summary Result Analysis: ODD Semester 2017-18

Department: _____

Name of the PG Program

| Se m | Course Code | Course Title | Faculty Name | Correlation factor of CIE-SEE | # of students | SEE Results (Grades awarded for the students) | | | | | | | | | Self-Audit by faculty Submitted (Yes/No) |
|---------|-------------|--------------|--------------|-------------------------------------|------------------|--|---|---|---|---|---|---|---|---|---|
| | | | | | | S | A | B | C | D | E | F | X | I | |
| 1 | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

To be signed by:

DAC/AAC Members

HOD



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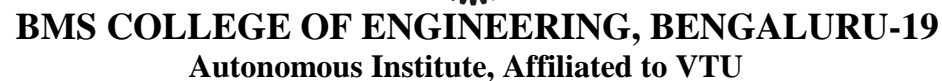
Department of _____

1. Summary of contribution to PO/PSO through the Courses Delivered during ODD Semester

| Semester | Course Code | Core/ Elective | # of Students | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
|----------|-------------|-------------------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

2. Summary of Micro-level Analysis of Internal Assessments of ODD Semester Courses

| Sem | Course Code | Core/ Elective | # of Students | Distribution of marks (as percentage) | | | | |
|-----|-------------|-------------------|------------------|---------------------------------------|--------------------|---------|--------|--|
| | | | | Remember/ Understand | Apply Knowledge | Analyze | Design | All other skills higher order skills that address PO4 to PO12 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |



3. Summary of Micro-level Analysis of SEE question papers of ODD Semester Courses

4. Summary of CO attainment of various courses of ODD Semester Courses

[illegible]



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Department of _____

5. List of Courses where CIE distribution is of concern (if applicable)

| S.No. | Course Title | Course Code | Type | | Faculty(s) handling the Course |
|-------|--------------|-------------|----------|-------------------|--------------------------------|
| | | | FY/UG/PG | Core/ Elective | |
| | | | | | |
| | | | | | |

6. List of Courses where COs need to be redefined (if applicable)

| S.No. | Course Title | Course Code | Type | | Faculty(s) handling the Course |
|-------|--------------|-------------|----------|-------------------|--------------------------------|
| | | | FY/UG/PG | Core/ Elective | |
| | | | | | |
| | | | | | |



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Department of _____

7. List of Courses where the correlation factor is of concern (if applicable)

| S.No. | Course Title | Course Code | Type | | Faculty(s) handling the Course |
|-------|--------------|-------------|----------|-------------------|--------------------------------|
| | | | FY/UG/PG | Core/ Elective | |
| | | | | | |
| | | | | | |

8. Brief description of the method used to compute the CO attainment (possible methods included below for reference)**

****Possible methods for CO attainment Process**

- Percentage of students above the class average
- Average of the students who have attempted the said question (considering number of students attempted the question)
- Average of the students who have attempted the said question (considering number of students attended the said examination)
- Class Average of the students who have attempted the said question (considering Total number of students registered for the course)
- $(\text{Number of students who have secured more than a set threshold}) / (\text{number of students who have attempted the question})$
- Any other



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Department of _____

- 9. Brief description of the method of deciding the strength of the CO-PO mapping**

- 10. List 3 to 6 Best Academic Practices of the Department**

- 11. Any suggestions for improving the Faculty Self-audit formats**

- 12. Response to comments by the Previous Institute Level Academic Audit (if applicable)**

- 13. Any other**

To be signed by:

DAC/AAC Members

HOD



BMS COLLEGE OF ENGINEERING, BENGALURU-19

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Faculty Self-Audit

(to be submitted at the end of the semester)

Course Title: _____
 Course Code: _____
 Credits (L-T-P-S): _____
 Course Type (Core/Elective): _____
 Number of Students: _____
 Program: _____
 Faculty: _____

| A | Course Outcomes | | | | | | | | | | | | |
|--|---|-----|--|-----|-----|-----|-----|-----|-----|-----|------|------|-------|
| | <i>At the end of the course the student will be able to</i> | | | | | | | | | | | | |
| | CO1 | | | | | | | | | | | | |
| | CO2 | | | | | | | | | | | | |
| | CO3 | | | | | | | | | | | | |
| | CO4 | | | | | | | | | | | | |
| | CO5 | | | | | | | | | | | | |
| | CO6 | | | | | | | | | | | | |
| NOTE: Add/Delete ROW as required | | | | | | | | | | | | | |
| B | CO-PO mapping | | | | | | | | | | | | |
| | | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
| | CO1 | | | | | | | | | | | | |
| | CO2 | | | | | | | | | | | | |
| | CO3 | | | | | | | | | | | | |
| | CO4 | | | | | | | | | | | | |
| | CO5 | | | | | | | | | | | | |
| | CO6 | | | | | | | | | | | | |
| <i>Indicate strength of mapping (1/2/3) with justification</i> <i>Include/Delete columns based on UG/PG to address POs/PSOs</i> | | | | | | | | | | | | | |
| C | Assessment Tools (for 50 marks of CIE) | | | | | | | | | | | | |
| | Tool | | Remarks | | | | | | | | | | Marks |
| | Internals | | Best 2 of 3 | | | | | | | | | | |
| | QUIZ | | ONE/ Average of TWO / Best 2 of 3/ any other | | | | | | | | | | |
| | Lab Component | | If applicable | | | | | | | | | | |
| | Self-Study Component | | If applicable | | | | | | | | | | |
| | AAT | | Seminar/ Mini-project/ any other (specify) | | | | | | | | | | |
| | Total | | | | | | | | | | | | 50 |
| NOTE: Add/Delete ROW as required | | | | | | | | | | | | | |



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| | | | | | | | | |
|----------|--------------------------------------|-----------------------------------|--------------------|-----|-----|-----|-----------------------------|-------|
| D | Assessment Tool Mapping to CO | | | | | | | |
| | | CO1 | CO2 | CO3 | CO4 | CO5 | CO6 | Total |
| | Test -I | | | | | | | |
| | Test-II | | | | | | | |
| | Test-III | | | | | | | |
| | Quiz-I | | | | | | | |
| | Quiz-II | | | | | | | |
| | Total Marks | | | | | | | |
| | Percentage | | | | | | | |
| | NOTE: Add/Delete ROW as required | | | | | | | |
| E | Lecture Schedule | | | | | | | |
| | Lecture # | Unit # | Topic | | | | Remarks | |
| | 1 | -- | | | | | | |
| | 2 | I | | | | | | |
| | 3 | I | | | | | | |
| | 4 | I | | | | | | |
| | 5 | I | | | | | | |
| | 6 | I | | | | | | |
| | ... | | | | | | | |
| | ... | | | | | | | |
| | ... | | | | | | | |
| F | Tutorials (if applicable) | | | | | | | |
| | Tutorial # | Unit # | Topic | | | | Remarks/ Skill Addressed | |
| | 1 | -- | | | | | | |
| | 2 | I | | | | | | |
| | 3 | I | | | | | | |
| | 4 | I | | | | | | |
| | 5 | I | | | | | | |
| | ... | | | | | | | |
| | ... | | | | | | | |
| | ... | | | | | | | |
| | G | Laboratory (if applicable) | | | | | | |
| | Experiment # | Unit # | Name of Experiment | | | | Remarks/ Skill Addressed | |
| | 1 | -- | | | | | | |
| | 2 | I | | | | | | |
| | 3 | I | | | | | | |
| | 4 | II | | | | | | |
| | 5 | II | | | | | | |
| | 6 | II | | | | | | |
| | ... | | | | | | | |
| | ... | | | | | | | |
| | ... | | | | | | | |



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| H | Self-Study <i>(if applicable)</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--|-------------------------|--------------------|---------|--------|---------------------------|----------------|--|--|-------------------------|--------------------|---------|--------|---------------------------|----------------|----------------|------------|--|--|--|--|--|--|------------|--|--|--|--|--|------------|--|--|--|--|--|------------|--|--|--|--|--|-------------|--|--|--|--|--|----------------|------------|--|--|--|--|--|--|------------|--|--|--|--|--|------------|--|--|--|--|--|------------|--|--|--|--|--|-------------|--|--|--|--|--|-----------------|------------|--|--|--|--|--|--|---------------|-------------|--|--|--|--|--|--|----------------|-------------|--|--|--|--|--|--|-------------------------|-------------|--|--|--|--|--|--|--------------------|--|--|--|--|--|--|--|
| | <ul style="list-style-type: none"> Self-Study Activity Description Self-Study Evaluation Rubrics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I | List the suggestions/Comments for improvement of the course (or similar course) delivered during the previous Academic year <i>(as mentioned in the Course File)</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J | Action taken to address the suggestions/Comments (of the above (H)) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K | Course End Survey (Summary) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| L | Micro-level Audit of Assessment Tool(s) used | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width:15%;"></th> <th style="width:10%;"></th> <th style="width:15%;">Remember/ Understand</th> <th style="width:15%;">Apply Knowledge</th> <th style="width:10%;">Analyze</th> <th style="width:10%;">Design</th> <th style="width:15%;">Any other (Specify)</th> <th style="width:10%;">Total marks</th> </tr> </thead> <tbody> <tr> <td rowspan="5">Test -I</td> <td>Q1a</td> <td></td><td></td><td></td><td></td><td></td> <td rowspan="5"></td> </tr> <tr> <td>Q1b</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Q2a</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Q2b</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>....</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td rowspan="5">Test-II</td> <td>Q1a</td> <td></td><td></td><td></td><td></td><td></td> <td rowspan="5"></td> </tr> <tr> <td>Q1b</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Q2a</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Q2b</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>....</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Test-III</td> <td>...</td> <td></td><td></td><td></td><td></td><td></td> <td></td> </tr> <tr> <td>Quiz-I</td> <td>....</td> <td></td><td></td><td></td><td></td><td></td> <td></td> </tr> <tr> <td>Quiz-II</td> <td>....</td> <td></td><td></td><td></td><td></td><td></td> <td></td> </tr> <tr> <td>AAT/ other tools</td> <td>....</td> <td></td><td></td><td></td><td></td><td></td> <td></td> </tr> <tr> <td>Total Marks</td> <td></td> <td></td><td></td><td></td><td></td><td></td> <td></td> </tr> </tbody> </table> | | | | | | | | | Remember/ Understand | Apply Knowledge | Analyze | Design | Any other (Specify) | Total marks | Test -I | Q1a | | | | | | | Q1b | | | | | | Q2a | | | | | | Q2b | | | | | | | | | | | | Test-II | Q1a | | | | | | | Q1b | | | | | | Q2a | | | | | | Q2b | | | | | | | | | | | | Test-III | ... | | | | | | | Quiz-I | | | | | | | | Quiz-II | | | | | | | | AAT/ other tools | | | | | | | | Total Marks | | | | | | | |
| | | Remember/ Understand | Apply Knowledge | Analyze | Design | Any other (Specify) | Total marks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test -I | Q1a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Q1b | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Q2a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Q2b | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Test-II | Q1a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Q1b | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Q2a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Q2b | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Test-III | ... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quiz-I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quiz-II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AAT/ other tools | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Marks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Add/Delete Rows/Columns as required | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



BMS COLLEGE OF ENGINEERING, BENGALURU-19
Autonomous Institute, Affiliated to VTU

| | | | | | | | | |
|----------|--|------------------------------|---------------------------------|----------------------------|----------------|---------------|------------------------------------|------------------------|
| M | Micro-level Audit of SEE Question Paper | | | | | | | |
| | | | Remember/ Understand | Apply Knowledge | Analyze | Design | Any other (Specify) | Total marks |
| | SEE | Q1a | | | | | | |
| | | Q1b | | | | | | |
| | | Q2a | | | | | | |
| | | Q2b | | | | | | |
| | | | | | | | | |
| | Total Marks | | | | | | | |
| N | CO Attainment | | | | | | | |
| | CO# | Attainment: CAYm1 | Attainment: CAY | Target Set | Remarks | | | |
| | CO1 | | | | | | | |
| | CO2 | | | | | | | |
| | CO3 | | | | | | | |
| | CO4 | | | | | | | |
| | CO5 | | | | | | | |
| | CO6 | | | | | | | |
| O | CIE Bar Graph | | | | | | | |
| | | | | | | | | |
| P | SEE Bar Graph | | | | | | | |
| | | | | | | | | |
| Q | Innovations in TLP/Best Practices adopted (delivery/assessment) | | | | | | | |
| | | | | | | | | |
| R | Any other | | | | | | | |

Date: _____
Signature of the Faculty(s)

Signature of the HOD

Note:

- The Course plan is an attempt to ensure **continuous improvement** in the TLP of the course.
- Calendar of Events and detailed schedule included.

Annexures to be included:

- All the THREE Internal Question Papers
- Quiz Papers/others
- SEE Question Paper

ANNEXURE – III

Department Profile by HODs

Welcome to
“ACADEMIC COUNCIL
MEETING”

30th May, 2018

1

Department of Civil Engineering
BMS COLLEGE OF ENGINEERING, Bangalore-19
(Autonomous college under VTU)
(ESTD.-1946)

Dr. MAYA NAIK
Prof and Head

2

About the Department

| Program | Description |
|-------------------------|--|
| UG in Civil Engineering | Started in 1946 |
| | Operating with an intake of 50 since past 10 years |
| | Intake has been increased to 120 Seats in 2013 |
| | Intake has been increased to 180 Seats in 2018 |
| | Accredited by NBA for 5 years (2014-2019) under Washington Accord (Tier-1) |
| PG in Civil Engineering | Construction Technology: established in 1983 [intake: 18] Accredited by NBA : 2017 -2022 [5 Years] |
| | Environmental Engineering: established in 1997[intake: 18] Accredited by NBA: 2017 – 2018 [2 years] |
| | Transportation Engineering: established in 2006[intake: 18] (Accredited by NBA: 2013 for 3 Years, accreditation conducted in April 2018, status : awaited) |
| | |

3

About the Department

30.05.2018

| | |
|--|--|
| • Faculty strength | : UG : 25 & PG : 09 Total: 34 |
| • Faculty Cadre Ratio | : P : Asso. P : AP 15 : 05 : 14 |
| • Student- Staff Ratio | : 20 : 1 (at present) |
| • Non-Technical Staff | : 26 (Tech.: 10, Admin: 03, Menial:13) |
| • Faculty with PhD | : 25 |
| • No. of PhD/MSc (Engg.) students | : 63 |
| • No. PhD awarded from the Department | : 16 |
| • No. of M.Sc Engg. Awarded | : 07 |
| • No. Patents filed | : 02 |
| • No. of R & D proposals submitted for external funding (2015-16) | : 04 |
| • TEQIP Phase I & II | : 80 Lakhs each |
| • TEQIP Phase III | : 35 Lakhs |
| • Publications last three years | : 140 |
| • Consultancy revenue generated | : 25 Lakhs |

4

Award and Recognitions

| SL NO | AWARDS AND PUBLICATIONS | DATE |
|-------|---|--|
| 1 | Dr. C R Ramakrishnaiah, Associate Professor was recognized as a "reviewer" for the International journals and awarded with Certificate of Excellence in Reviewing. | August 2017 |
| 2 | Dr. H B Nagaraj, Associate Professor awarded as "Top 1 per cent of peer reviewers" | Sept 2017 |
| 3 | B.E. VI semester students and M.Tech Construction Technology students Secured First Prize for "video presentation" and "stall presentation" respectively in ICI Panorama and Deminar on "Myriad Manifestations in Concrete" held at NIMHANS CONVENTION HALL | 1st and 2nd March 2017 |
| 4 | VI semester students Lavanya G S (under TEQIP-III), Lakshmi Ramachandra Hegde, Keerthi Narayan Y, Krishna Bharadwaj D S attended the symposium on National level competition AAKAAR in IIT Bombay to present paper titled "Strength Evaluation of Jack Arch Roofing with Bamboo- MAT Reinforcement" | 17 th & 18 th March 2018 |
| 5 | Ms. Sreejita Ghosh, VIII semester student presented paper titled "Green and sustainable Building Practices for Museums" International Conference in ICONSET 2018 ACS College of Engineering, Bangalore | 19th & 20th April 2018 |
| 6 | Ms. Manaswini M M, VIII semester student presented paper titled "Application of Nanotechnology for the Rejuvenation" International Conference in ICONSET 2018 ACS College of Engineering, Bangalore | 19 th & 20 th April 2018 |

5

Batch Graduating 2017: Success Index

| Sl. No | Semester and duration | Total number of students per semester | Completed program in Four years without any backlog | Completed program in Four years with backlog | To complete the program with more than four years | Quit Program (Left college/ branch change/other) specify |
|--------|-----------------------|---------------------------------------|---|--|---|--|
| 1 | III sem | | | | | Branch Change-1 Quit - 2 |
| 2 | V sem | | | | | Quit-1 |
| 3 | Total | N: 128 | N1: 81 | N2: 33 | N3: 10 | N4: 4 |

Success Index without Backlogs: $N1/(N-N4) = 0.653$

Success Index with Backlogs: $(N1+N2)/(N-N4) = 0.919$

NOTE: N1 + N2 shall receive degree during the Convocation: 114

Batch Graduating 2017: Higher Education /on campus and off campus placements

| On campus placements | Off campus placements | Higher Education | Entrepreneur |
|----------------------|-----------------------|------------------|--------------|
| 12 | 7 | 15 | 2 |

6



B. M. S. College of Engineering

(Autonomous Institute under VTU)



Department of Mechanical Engineering

PROFILE

Presented by

Dr. Bheemsha Arya
Professor & Head

Milestones/History of Department



| U G B. E. Mechanical Engineering | P G M. Tech. Machine Design | Ph D and M.Sc.(Engg.) by Research |
|--|---|---|
| Started with 30 seats in 1946 | Started with an intake of 18 in 1985 (10 through GATE) | Recognized as Research Centre by VTU in 2003 |
| Present Intake is 180 from 2013 | Accredited by NBA during 2008 for 3 Years | Recognized as QIP Centre by AICTE for M.Tech. in 2006 and Ph.D. in 2012 |
| Accredited by NBA in 2004 for 3 years | Accredited by NBA during 2013 for 3 Years | Ph.D scholars = 40 |
| Accredited by NBA in 2008 for 3 years | | Full time: 05 |
| Accredited by NBA from 2014 for 5 years under Tier-I (Washington Accord) | P G M. Tech. Manufacturing Science and Engineering | Part Time : 33 |
| | Started in 2014 with an intake of 24 seats | QIP : 02 |
| | | M.Sc (Engg) = 07 |

Faculty

Total Strength : 56

- Ph.D Qualification : 27 [48 %]
- Faculty pursuing PhD : 15

| Professor | Associate Professor | Assistant Professor |
|-----------|---------------------|---------------------|
| 8 | 7 | 41 |

| Average Service | Average age |
|-----------------|-------------|
| 15 yrs | 37 yrs |

| Design | Production & Management | Thermal |
|--------|-------------------------|---------|
| 21 | 24 | 11 |

| Student – Faculty Ratio |
|-------------------------|
| 15.92 |

Achievements (Last five years)

| | |
|---------------------------------------|-----------------|
| Publications (National/International) | 188 |
| No. of Patents filed | 09 |
| Membership in Professional Bodies | 08 |
| R & D projects (20 projects) | Rs. 6.91 Crores |

Awards & Honors

| Name of the Faculty | Details of Awards Received |
|---------------------|---|
| Arjun C. C. | Young Investigator Award at International Conference on Advanced Research in Mechanical Engineering (ARME). |
| Dr. K. Guruprasad | Best Engineer Felicitated by Institution of Engineers (India), Karnataka State Centre. |
| R.Suresh Kumar | Best Paper Award at RAMPT. |
| Dr.H.K.Rangavittal | Best prize in the “Commercial Simulation Software” at ASME |
| Dr.S.Srinivas | Won the Best Paper award: 18 th International Conference on Composite Materials, ICCM 2016, London, UK |

Books Published :

| SNO | Title | ISBN number | Name of the Faculty/Author | Name of the Publisher/s |
|-----|---|--|----------------------------|--|
| 1 | Finite Element Modelling for Engineering Analysis | ISBN: 978-9380381534, 1 st edition (2017) | Shivashankar R Shrivatsa | M/s Yes Dee Publishing Pvt. Ltd., Chennai. |
| 2 | Computer Aided Engineering Drawing | ISBN 978-81-239-2536-3, Section Edition | H.M.Shivaprasad | CBS Publishers & Distributors Pvt Ltd, New Delhi |
| 3 | Finite Element Methods | ISBN 00000000001157 | R.Suresh Kumar | Subhas Stores, Bengaluru |
| 4 | Tribology | ISBN : 4567142357 | R.Suresh Kumar | Sapna Book House, Bengaluru |

10

STUDENT ACHIEVEMENT

Success Index without Backlogs = 48 %

Success Index with Backlogs = 32 %

TOTAL = 80 %

NO OF STUDENTS ELIGIBLE FOR GRADUATION = 127

Placements

| | |
|--|-----|
| Percentage of Placement (Core + IT) | 87 |
| Average Package offered (Lakhs PA) | 5.0 |

Higher Studies

| | |
|--------------------------------------|----|
| University/Institutions in India | 07 |
| University/Institutions in Abroad | 03 |

| Workshop / Training Programmes | Guest Lectures | Industrial Visits | Conference / Symposium | Internship |
|-----------------------------------|-------------------|----------------------|---------------------------|------------|
| 03 | 21 | 15 | 13 | 47 |

Industry Interaction - Internship



Composite Structures, Surface
coatings, CFD, MRF
Research Projects and
Faculty Development Programmes



**ELITE TECHNO
GROUPS**
Inspiring Young Generation

Technical Support
– SAE Activities



Industrial Metrology
Mechanical Measurements
Industrial Visit, Training
programmes

Sical Abrasives

Collaborative R & D
Development of Advanced Materials for Grinding



SCANIA

Industrial Visits, Internships
Collaborative research



Industry Funded Laboratory for Product Development,
Internships, Project Work



Industry-Institute-Interaction
R & D Projects, Internships



Training for Technical Staff

Industry Interaction - Internship



Mercedes-Benz

**1 LAKHS
SCHOLARSHIP FOR
SEVEN GIRL
STUDENTS**



**47 STUDENTS
HAVE TAKEN
INTERNSHIP**

13

Research - Facilities

Centre of Excellence for Advanced Materials

- Under TEQIP-II – Rs. 5 Crore grant
- Research Facility - Abrasive Water Jet Machining
- Material Characterisation: SEM, XRD, Tribology Lab
- Squeeze casting, Precision Impedance Analyzer



Abrasive Water Jet Machining



Scanning Electron Microscope



X-ray diffractometer

14

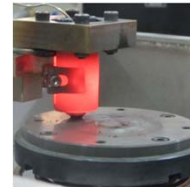
Research - Facilities



Squeeze Casting



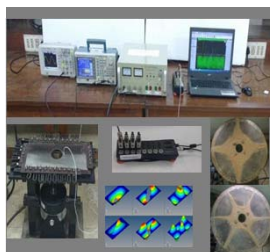
Electric Discharge Machining



High Temperature
POD Wear testing

15

Research - Facilities



Vibration Testing
faciltiy

Modal Analysis Facility for
plates and shells

PI: Dr. B S Suresh



Journal Bearing Test
Rig

Computerized facility to conduct research and project work
on bearings and seals

PI: Dr. J Sharana Basavaraja



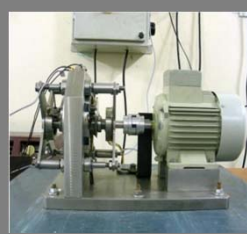
Finger Seal Testing
Facility,

16

Research - Facilities



Semi-active Journal
Bearing



Rotor Dynamics and
Vibration



Reciprocating Linear
Tribometer

Test rigs facilitating the testing of rotor, plates & shells,
bearings

PI: Dr. L. Ravi Kumar

Fretting Corrosion Test facility

PI: Dr. Y. S. Ram Mohan

17

Research - Facilities



Metal Matrix
Composites



Abrasive Waterjet
Machining



Nano Composites
Squeeze Casting

PI: Dr. M. Ramachandra

PI: Dr. M. Ramachandra, Dr. S. Srinivas

18

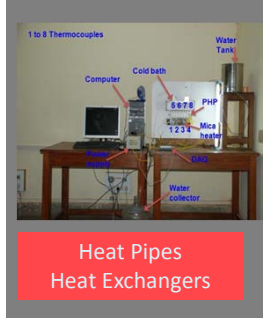
Research - Facilities



PI: Prof. CK Chandra Babu



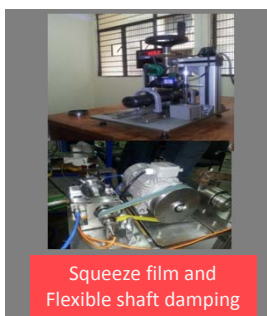
PI: Dr. Bheemsha Arya



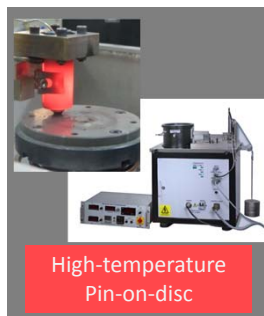
PI: Dr. Rudra Naik

19

Research - Facilities



PI: Dr. G. Giridhar



PI: Dr. Bheemsha Arya



PI: Dr. Rudra Naik

20

O B E Practices

- Activity based Learning: Term papers, Case studies
- E-learning Tools: Edmodo, Wiksate, MOOCs
- Flipped classes
- Interdisciplinary Electives
- Institutional Electives, Research Methodology
- Seminars, Internships
- Propel Labs
- 3DPLM Lab: Industry Supported Laboratory

21



Heartly Welcome To Academic Council Members

Department of Electrical and Electronics Engineering

Presentation By

Dr. C.Lakshminarayana
Professor and Head

Dept. of EEE, BMSCE

22

| | | | | |
|-----------------------------------|--|--|--------------|----------------------|
| Established: | UG | 1946 | Grant in Aid | |
| | PG | 1991 | Grant In Aid | |
| Programs Offered | UG | Electrical and Electronics Engineering | | |
| | PG | Power Electronics | | |
| Sanctioned Intake | UG | 60 | PG | 18 |
| SFR | 1:14.27 | | | |
| Faculty with PhD | 55 % (12 out of 22) | | | |
| Faculty Cadre Ratio | Professor: Assoc.Prof : Asst.Prof: 04:09:09 | | | |
| Technical staffs | 13 | | | |
| Avg. total experience | 18.6 YEARS | | | |
| RESEARCH CENTRE | VTU R&D center | | 2003 | Ph.D awarded :08 |
| | AICTE QIP Research center | | 2012 | Research Scholars:15 |
| CENTRE OF EXCELLENCE | SOLAR PHOTOVOLTAIC SYSTEM -CARES | | | |
| Micro Devices lab | Funded by DST | | | |
| Phase Change Memory Materials Lab | Funded by TEQIP-II COE | | | |
| GIAN Organized | Electric Vehicles & System Design Prof. Kaushik Rajashekara, University of Houston , July 3 rd to 13 th , 2017 | | | |

| | | |
|-------------------------------|---|------------------------------|
| Accreditation Status | UG | Accredited since 2004 by NBA |
| | PG | Accredited since 2013 by NBA |
| % of Input Admissions | 100 % | |
| FUNDS RECEIVED SO FAR | Rs. 21.39 Lakhs ; TEQIP: 54.83 Lakhs | |
| PATENTS | 01 US patent granted; 07 filed | |
| FACULTY PUBLICATIONS-2017 | 36 | |
| STUDENT PUBLICATIONS -2017 | 03 | |
| % of on/off campus placements | 84.72 % | |
| Higher Studies | 11.1% | |
| GATE Qualified | 03 | |
| Success Index | 92.20% | |
| | Ready for award of Degree during Convocation: 71 | |
| STUDENT AWARDS | "Pulsed Electric Power Based Engine Exhaust Cleaning" received "Project of the year award" during Seminar and Exhibition held by KSCST(IISc) at NMAMIT, Nitte on 11th and 12th August 2017. | |
| Faculty Awards/recognitions | Dr.P.Meena received IUCEE Faculty Fellow & Outstanding Engineering Educator Award for the year 2017. | |

Dept. of EEE, BMSCE

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Department of Electronics and Communication Engineering, BMSCE

Presentation By
DR. G Poornima, HOD ECE

15-06-2018

Dept. of ECE

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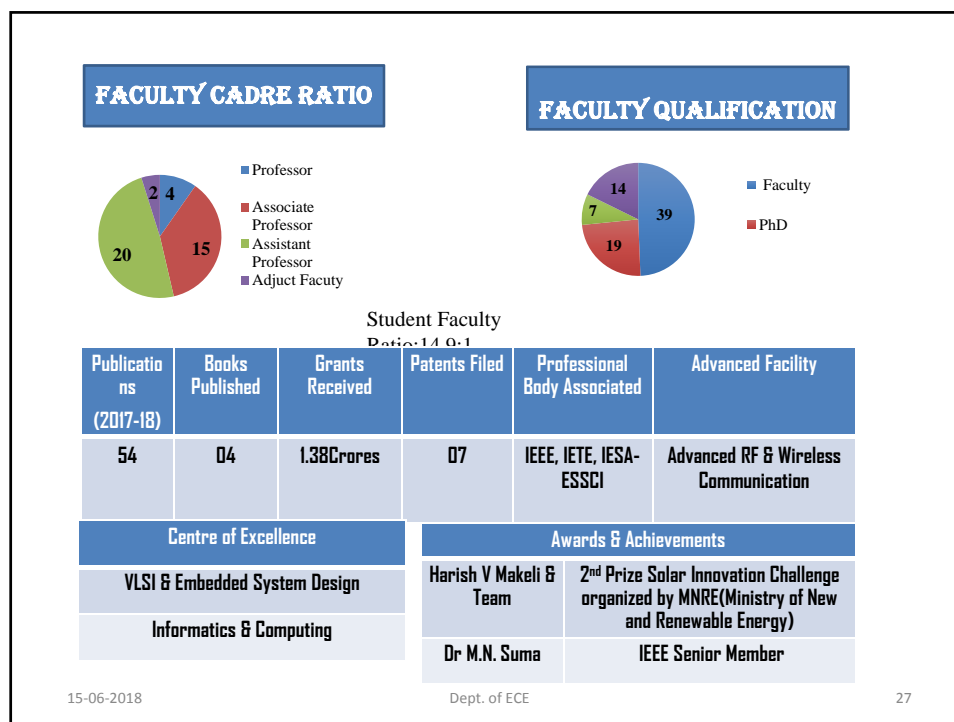
PROGRAMMES OFFERED

| Year of Est. | Program | Program Title | Intake Sanctioned |
|----------------------|-------------------|---|-------------------|
| 1971 1983 2018 | UG [GRANT IN AID] | Electronics & Communication Engineering <i>Accredited by NBA for 6 years from 2017-2023 under Tier I</i> | 60 120 180 |
| 1986 | PG [GRANT IN AID] | Electronics | 18 |
| 1996 | PG [GRANT IN AID] | Digital Communication Engineering | 18 |
| 2014 | PG | VLSI & Embedded System Design | 24 |
| 2002 | PhD | Electronics Engineering | |
| | | Ph.D awarded from Department | 11 |
| 2011 | PhD (QIP) | Research Scholar | 68 |

15-06-2018

Dept. of ECE

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UPCOMING EVENTS



Towards Safe Cities: A Mobile and Social Networking Approach

Overview

Recent technological advances, in particular mobile devices and online social networks, have paved the way toward a smarter management of resources in today's cities. As population density grows and natural disasters and man-made incidents (e.g., hurricanes, earthquakes, riots) impact increasing number of people, maintaining the safety of citizens, an essential security component, becomes a problem of paramount significance and difficulty. Nevertheless, a system where users are essentially made aware of their safety in personalized manner, through past and experiences with a ubiquitous mobile infrastructure, allowing a statement or finding a place in this is to enable the vision of smart and safe cities by exploiting mobile and social networking techniques to secure and privacy context, model and control real-time public safety information into quantifiable user experiences. This course provides an overview of approaches to active location and non-based safety services and also introduces state-of-the-art processing algorithms for computing safety impact of on-board mobile devices as well as personal network users. The course also presents the representative details of field as well as lab-based applications and a browser plug-in that visualizes safety levels of visited locations and traveled geographical areas.

This course provides a comprehensive discussion on the mobile technologies and online social networks to provide personalized and context-aware safety recommendations for mobile and social network users.

Dr. K.A. Jangir
Professor and Head Professor,
Chairman of the School of Computing & Information Sciences,
Florida International University, Miami

Foreign Faculty

Dr. K.A. Jangir
Professor and Head Professor,
Chairman of the School of Computing & Information Sciences,
Florida International University, Miami

Local Institutional Coordinator
Dr. Ravishankar Deekshit,
Dean, Studies Affairs,
BMSCE College of Engineering

Host Faculty

Dr. G. Poornima is Professor and Head of the Department and Communication Engineering, she holds a PhD in the Energy Efficient Wireless Sensor Networks from University Visvesvaraya College of Engineering, Bangalore University, Bangalore, Karnataka, India. Her research interest includes: Energy Efficient Computer Networks, Real Time Signal Processing, Energy Harvesting in Wireless Sensor Networks.

Course Coordinator

Dr. G. Poornima
Prof. & Head of Department & Communication Engineering
BMSCE College of Engineering
BMSCE, Bangalore
Ph: 98450 10000, Mob: 98450 10000, Email: gpoornima@bmsce.ac.in

Course Registration: <http://www.gian.org.in>

Dr. G. Poornima
Email: gpoornima@bmsce.ac.in
Mob: 9845010000

Dr. Jangir
Email: jangir@fiu.edu
Mob: 9845010000



MIRD SPONSORED COURSE ON

"Towards Safe Cities: A Mobile & Social Networking Approach"

June 1st - 4th 2018

Organized By

Department of Electronics & Communication Engineering

All are cordially invited for the Inaugural Function

Date: June 1st 2018

Venue: Library Auditorium, BMSCE at 9.30 AM

Kindly grace the occasion with your presence.

Chief Guest
Dr. I. S. Shivakumara
Vice Chancellor
Bangalore University
Bangalore

Guest of Honour
Dr. S. S. S. Iyengar
Director and Ryder Professor
Florida International University
Miami, USA.

Presided By
Dr. K. K. Mallikharjuna Babu
Principal, BMSCE

Dr. G. Poornima
Head of the Department
ECE, BMSCE

Dr. Ravishankar Deekshit
GIAN, Local Coordinator
BMSCE



Dr. R.V. Ravishankar
Vice-Principal
BMSCE

IEEE International Conference on Networking, Embedded and Wireless Communication Systems, 27 & 28 Dec 2018


15-06-2018

Dept. of ECE, PG-DCE

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Department of INDUSTRIAL ENGINEERING & MANAGEMENT Profile



- By














Dr. K J Rathanraj
Professor and Head of the department
Dept. of IEM
BMSCE

ABOUT THE DEPARTMENT

- **Established in the year 1979**
- **Grant -in-aid Department from the Government of Karnataka**
- **Programmes offered**
 - UG : B.E.(Industrial Engineering and Management)
 - Ph. D by Research(Part time & Full time programme)
- **Accredited by national board of accreditation(NBA)**
 - Under Graduate Program Accredited in 2014 for 5 Years
 - In Tier-I Category (Washington Accords)
- **Sanctioned intake= 60 students**
- **Recognized as VTU Research center from 2005**

DEPARTMENT DETAILS

| | |
|---|-----------------------------------|
| • Student Faculty Ratio | 16:1 |
| • Percentage of input admissions | 100% |
| • Percentage of on/off campus placements | 68% |
| • Maximum package offered on campus | 6.25LPA |
| • Success index | |
| Without Backlogs | 0.5066 |
| With Backlogs | 0.8933 |
| • Patent filed | 6 |
| • Grants fetched | 21.5 Lakhs |
| • Faculty cadre ratio | 2:3:8 |
| | (Prof: Assoc Prof: Asst Prof) |
| • Percentage of faculty with Ph.D | 38% (5 faculty) |
| • Percentage of faculty with pursuing Ph.D | 31% (4faculty) |
| • Percentage of faculty with M.Tech | 31% (4 faculty) |
| • Students publications of batch 2017 | 5 (Journals) |
| • Consultancy | 4 |
| • Association with professional Bodies | IIIE,ORSI, MIE, MISTE, SAE |
| • Research area – Quality & Reliability, Thrust Bearing, Noise , Supply Chain, ERP, Composite Materials, Operations Management | |

| | | | |
|---|---|--|---|
|  Dr. K J Rathanraj Professor & HOD |  Dr. B Ravishankar |  Dr. G Shashikumar |  Prof. K T Ramesh |
| |  Prof. B Ramesh Nayak |  Dr. B R Ramji |  Prof. Kavitha Rani N |
| |  Prof. Shalaja J C |  Prof. Reddy Naik J |  Prof. Disha M Nayak |
| |  Dr. K N P Prasad |  Prof. V N Shailaja |  Prof. Mayur Appaiah |

| | |
|------------------------|-----------------|
| Retention Rate | 100% |
| Average Age | 46 years |
| Average Service | 17 years |
| Gender Ratio | 9:4 |

STUDENTS PUBLICATIONS – Batch 2017

| SL. No. | Name | Journal Published |
|---------|---|--|
| 1 | Darshan , Karishma Rao Priyadharshini K S | Layout Planning for Engine manufacturing Industry , International Journal Of Advancement In Engineering Technology, Management and Applied Science (IJAETMAS)Volume04, Issue 04,pp 81-86, ISSN: 2349-3224 |
| 2 | Anushree, Jagadish V Gaonkar, Nishant Velugula | Design of an ERP software that facilitates Easy flow of a process change Order(PCO) Request in an Enterprise , Volume 7, Issue No. 6,ISSN 12771-12775 |
| 3 | Supraj Yadav M , Akshay Kumar G | Narrative Approach in Servo Braking Systems & Steering for A Electrically Operated Car is published in (IJTRD) International Journal of Trend in Research and Development (ISSN: 2394 – 9333), Volume 4 Issue 5, September – October 2017. |
| 4 | Vishal V Vernekar, Mahendra N G | Design and Development of Tool Kit for Team Performance , Issue 2, Vol 7, pp.23-30, |
| 5 | Srinivas M Dustker | Performance Analysis of Individual Swimmers for Elite Competitive Swimming , International Journal of Engineering Research and Advanced Technology(IJERAT) Volume-02, Issue 01, ISSN 2454-6135 |

| PATENTS FILED | | | | | | |
|---------------|---|----------------------------|------------|------------------|-----------------------|--|
| SI No. | Patent Name | Patent Granted for Country | Year | | Application No. | Name of the person/Institution holding the patent |
| | | | Filed Date | Publication Date | | |
| 1 | Travel Support Devise Comprising a forehead rest and a least one forearm groove | India | 06-02-2011 | - | 336/CHE/2011 | Dr. Rathanraj K.J., BMSCE Mr. Subramanya C R |
| 2 | Devices for dehusking Ragi (Finger Millet) | India | 25-07-2011 | 12-07-2013 | 2531/CHE/2011 | Dr. Rathanraj K.J., BMSCE Mr. Raviprasanna B L |
| 3 | A Mechanical rotary devices and method for operting the fan | India | 14-12-2011 | 21-06-2013 | 4365/CHE/2011A | Dr. Rathanraj K.J., BMSCE AshishKundapur Mr. CK Chandrababu |
| 4 | Electricity Generating attachment for mechanical play equipment & an integrated apparatus Application | India | March 2013 | | - No.1105/CHE/2014 | Dr. Shashikumar G S Assistant Professor Dept. of Industrial Engg. & Management |
| 5 | A portable Steam based automobile cleaning device | India | 16-07-2013 | - | 3176/CHE/2013 | Dr. Rathanraj K.J., BMSCE &ArunPatil |
| 6 | Cascaded air foil thrust bearing | India | 17-07-2015 | - | 3663/Che/2015 | Dr. Rathanraj K.J., BMSCE & R N Ravikumar |

DEPARTMENT OF TELECOMMUNICATION ENGINEERING

Dept. of Telecommunication Engineering- Estd. :1986

- Accredited in 2004, RE-Accredited in 2008.
- Recognized Research Centre by VTU in 2013
- Accredited for five years in Tier-I format (2014-2019)
- Sanctioned intake :60
- Faculty :14
- Cadre Ratio :1:3:10
- Faculty with PhD :5-36% , 5-Pursuing :36%, 3-MTech
- Technical Staff :08
- Admin Staff :01
- SFR :15:1

Achievements

- 13 research scholars pursuing PhD (1 –full time)
- Funds received (2015-18)-33 lakhs (DST, Consultancy, TEQIP)
- Awards Received by the faculty-7
- Awards received by the students- >10
- Faculty publications-278
- Student publications-107
- 2013-2017 Batch**
 - On campus Placement:74%
 - Off campus placement:6%
 - Higher Education:23%
 - Success index-92%



BMS College of Engineering

Academic Council Meeting – 30th May 2018

Department Profile

Presented by:

Dr. B.G. Prasad
Professor and HOD

Department of Computer Science and Engineering

CSE Department Profile

- **UG- CSE sanctioned intake of 120 started in the year 1983.**
- **PG- CSE sanctioned intake of 18 started in the year 1993. (AICTE sponsored)**
- **Research Center (VTU): PhD**
(30 ongoing and 6 completed / 7 faculty guides)
- **NBA Accreditation Status:**
PG-CSE : 5 years (2017-2022)
UG-CSE : 3 years (2014-2017)
(current year applied for compliance)

CSE Department Profile

- **Percentage of Input Admissions:**
UG - 100 % and PG – 89 %
- **Number of Faculty: 29 (CR: 3:9:17)**
- **Percentage of Faculty with Ph.D. : 31 %**
- **Average Experience: 12 years**
- **Faculty Retention: 97 %**
- **Student-Faculty-Ratio: 16 : 1**
- **Percentage of Placements:**
On/off campus: 87 %
Higher Education: 7 %
- **Student Internships : 82 % (2017-18)**
- **Success Index: 0.86**

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CSE Department Profile

- **Center of Excellence:**
 - Center of Excellence in Sensor Networks and Data Analytics
 - Medical Infrared Thermography Lab
- **Research Grants: 105 Lakhs**
(AICTE / UGC / VGST / DST / TEQIP projects)
- **Patents: 16 granted and 1 applied**
- **Publications:**
Faculty: 385
(35 in Scopus with 400 + citations)

Students:102

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CSE Department Profile

- **Awards / Recognitions:**

Faculty:

Dr. Varaprasad G awarded UGC Research Award for the year 2014-2016

Dr. Umadevi V and Ms. Saritha A N - SAP award of Excellence for being placed in top performers list in the FDP conducted by IIT Bombay May 2016

Students:

Krishna Dixit won Gold Medal at all India Design Competition for Engineering Students – 2017

Rahul Kumar was the Chairman of IEEE BMSCE Student Chapter 16-17

Awards won:

Darrel Chong Award for BMSCE SIG

Won Bangalore Section Best Student Branch Website Award 2015

IEEE Region 10 Website Competition 2015 Runner Up

IEEE Global Website and Social Media Contest 2015 Runner Up

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DEPARTMENT OF INFORMATION SCIENCE ENGINEERING

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DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

| | |
|-----------------------------------|---|
| Year of Establishment | 1987 |
| Programme Offered | UG – BE PG - CNE – Computer Network Engineering |
| Sanctioned Intake | UG – 120 , PG - 18 |
| Research center | 2011, 26 Research Scholars |
| Student Faculty Ratio | Faculty: 26 15:1 |
| Number of Faculty with PhD | 9 (12 pursuing PhD) |
| Placement | 96% |
| Higher education | 16 UG Students are pursuing Masters degree 03 PG Students are pursuing PhD |
| Success Index | 87% |

SIGNIFICANT AWARDS / RECOGNITIONS

- Dr. Radhika K R – Senior IEEE Member
- Dr. H S Guruprasad – Rashtreeya Gowra Award
- Dr. Dakshayini M – Best Paper Award for “ Regression based AGRO Forecasting “.
- Nalina V – Best Project Award by AMD for “Assistive device for the blind” – Best Paper Award at National Conference on Sustainable Engineering and Management.
- Preetha S – Best Paper award at National conference on VLSI, Communication and Signal Processing.
- Smart India Hackathon: Winning team for world's biggest hackathon.
- Siemens MakeIT Real Hackathon:1.05 lakhs
- Great-West Hackathon :1.25 lakhs
- Societe Generale Global Solution Centre Hackathon: 1.25 lakhs
- Innovators Race Competition by Capgemini, San Francisco: 17.5 lakhs
- Impact Award winner: Kaustub Narayan for Farming: \$ 25,000
- Google student Ambassador: Ms. Avesha Jindal
- Capstone projects: SEE Room allotment and Timetable App for the office of Controller of Examinations by AppCATS

B.M.S
COLLEGE OF ENGINEERING
BULL TEMPLE ROAD, BASAVANAGUDI,
BANGALORE 560 019, INDIA


Late B.M. Sreenivasiah
Founder of BMSCE


Late R.S. Narayan
Donor Trustee

Department of Chemical Engineering

Dr. G. N. Rameshaiah Ph.D. (IITM)

Head of Department

E-mail: [gnrameshaiah.che @bmsce.ac.in](mailto:gnrameshaiah.che@bmsce.ac.in)
[hod.chemical @bmsce.ac.in](mailto:hod.chemical@bmsce.ac.in)

Mobile: +91 8277126901

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B. M. S. COLLEGE OF ENGINEERING, BANGALORE-560019
 (Autonomous Institution Under VTU)
DEPARTMENT OF CHEMICAL ENGINEERING
 Accredited by NBA as per Washington Accord Tier 1 Format

About Department

- The Department of Chemical Engineering was established in the year 1995 with an intake of 30 students
- In the year 2002 the intake was increased to 60 students
- The Research Centre for Ph.D. and MSc. (Eng.) by research was established in 2004
- The PG course in Biochemical Engineering was started in year 2013 with an intake of 24 students
- The number of faculty members in the department are 15

B. M. S. COLLEGE OF ENGINEERING, BANGALORE-560019

(Autonomous Institution Under VTU)

DEPARTMENT OF CHEMICAL ENGINEERING

Accredited by NBA as per Washington Accord Tier 1 Format

| More Information | Particulars |
|------------------------------|----------------------------------|
| Student Faculty Ratio | 18:1 |
| Students Placement | 98% |
| Higher Education | 23% |
| Success Index | 98% |
| Department Fund for Projects | 84 Lakhs |
| Department Publications | Conference / Journal Papers: 129 |

B. M. S. COLLEGE OF ENGINEERING, BANGALORE-560019

(Autonomous Institution Under VTU)

DEPARTMENT OF CHEMICAL ENGINEERING

Accredited by NBA as per Washington Accord Tier 1 Format

| | |
|---------------------|--|
| Awards | <ul style="list-style-type: none"> • Dr. Samita Maitra was awarded National Level Best Teacher Award - 2015 by VijayaVani, Karnataka. • Dr. C.T. Puttaswamy was awarded Karnataka State Environment Award - 2017 Individual category • Dr. Chetan A Nayak was awarded VGST Young Scientist Award -2012 • BMSCE Best Project Award for Er.YK Suneetha – Development of RO membrane for desalination of sea water • IICHe Best Student Award – 2015, 2016 |
| Recognitions | <ul style="list-style-type: none"> • Products developed by Dr. G N Rameshaiah from UG, PG and PhD Projects • Department hosted one GAIN programme -2016 • Jalajakshi C Lali won First Place in IICHe Kuloor Memorial Essay Competition • Shireesh Kumar Gupta won a Prize money for his Startup Idea held in BMSCE, 2016 • MOOCs/NTPEL/Certified Online Courses: - Dr. Chetan A Nayak, Er. Shivakumar, Er Sainath K and Er Soumen Panda |

**DEPT. OF BIOTECHNOLOGY
BMSCE**



**ACADEMIC COUNCIL MEETING
30.05.2018**

Dr. SAVITHRI BHAT
ASSOCIATE PROFESSOR & HEAD

DEPT. OF BIOTECHNOLOGY, BMSCE

- **Year of establishment :** 2002
- **Programs offered :** B.E Biotechnology
- **R & D :** Recognized by VTU, Offering MSc Engg. by research and PhD
- **Sanctioned intake :** 40, increased to 60 from the current academic year
- **Admissions :** 100 %
- **Number of faculty:** 10 (1:2:7 cadre ratio)
- **Success index :** 91%
- **Placements & Higher education:** 87%

DEPT. OF BIOTECHNOLOGY, BMSCE

➤ Faculty with PhD: 40%

(2 from IITM, Completing thesis and 1 QIP IITM)

➤ Publications: 70 (last three years)

➤ Grants fetched: 1.6 crores

(DBT-Star, DST, MHRD -GIAN , DSTFIST-K ,DBT-foldscope, TEQIP)

➤ Patents filed: 6; Published :4

➤ Consultancy: 3.0 lakhs

➤ Awards received: Faculty: 12 (TLP, NSS, NCC)

➤ Students Team awards: 9 (3 Intl, 7 Natl)

DEPARTMENT OF MEDICAL ELECTRONICS

| Department of Medical Electronics | |
|--|---|
| Dr. S.B. Bhanu Prashanth, Prof & Head | |
| Presentation by : | |
| Programmes Offered | <ul style="list-style-type: none"> ▪ B.E in Medical Electronics : 1992 with 30 Intake, Enhanced to 60 in 2018 ▪ M.Tech in Biomedical Signal Processing and Instrumentation : 2013 with 24 Intake |
| Innovation Center | ▪ Center for Innovation in Medical Electronics (CIME) : 2015 has 4 Incubations |
| <ul style="list-style-type: none"> • Average admissions - UG : 99.5 % • Average admissions - PG : 70 % | <p><u>UG Accreditation Status</u></p> <p>2014-17 : 3 Years</p> <p>2017-20 : Results of Compliance evaluation awaited</p> <p><u>PG Accreditation Status</u></p> <p>2018 : Applying for 1st time</p> |
| <ul style="list-style-type: none"> • Total Faculty : 11 • PhD Holders : 55 % • Pursuing PhD : 36 % • Average Experience : 23 Years | |
| | SFR = 14.89 : 1 |

15-06-2018

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| Student Performance | | Faculty Contributions | |
|--|------------------|--|---|
| Average of previous 3 years' Performance | | Research Activities | <ul style="list-style-type: none"> ▪ 07 Ongoing Funded Projects : Rs. 179 Lakhs ▪ 22 Research Scholars - Under 6 guides |
| Success Index (SI) | 0.72 | Consultancy works | ▪ 5 amounting to Rs.6.11 Lakhs |
| Placements & Higher Studies | 80 % | Patents | <ul style="list-style-type: none"> ▪ 16 Filed ▪ 4 Granted |
| Student Publications | 35 papers | Faculty Awards | ▪ More than 10 |
| UG - University Ranks : 56 PG - University Ranks : 03 | | Faculty Publications | <ul style="list-style-type: none"> ▪ 231 Papers ▪ 300 + Citations |
| | | Books Published | ▪ 2 |
| | | <ul style="list-style-type: none"> ▪ MoU's : 10 ▪ Professional Body – IEEE EMBS : 40 Activities since 2014 | |

15-06-2018

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DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGG.

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Electronics & Instrumentation Engineering


(formerly known as Instrumentation Technology till 2013 batch)
 Accredited by NBA under Tier – 1 for Three Years
 Presentation for 15th AC Meeting
 by
Dr. Mamatha M N, HoD - EIE


| | | |
|--|----------------------------------|--|
| <div style="background-color: #0056b3; color: white; padding: 5px; margin-bottom: 5px;">Year of Establishment</div> <ul style="list-style-type: none"> 1991 <div style="background-color: #0056b3; color: white; padding: 5px; margin-bottom: 5px;">Programs Offered</div> <ul style="list-style-type: none"> UG-EIE <div style="background-color: #0056b3; color: white; padding: 5px; margin-bottom: 5px;">Sanctioned Intake</div> <ul style="list-style-type: none"> 30 (Increased to 60) <div style="background-color: #0056b3; color: white; padding: 5px; margin-bottom: 5px;">Faculty with PhD</div> <ul style="list-style-type: none"> 44% One Faculty Pursuing <div style="background-color: #0056b3; color: white; padding: 5px; margin-bottom: 5px;">Research Scholars</div> <ul style="list-style-type: none"> Nine(09) <div style="background-color: #0056b3; color: white; padding: 5px; margin-bottom: 5px;">Cadre Ratio</div> <ul style="list-style-type: none"> 1 : 3 : 5 <div style="background-color: #0056b3; color: white; padding: 5px; margin-bottom: 5px;">Avg Age / Avg Retention</div> <ul style="list-style-type: none"> 41 / 15 <div style="background-color: #0056b3; color: white; padding: 5px; margin-bottom: 5px;">MoUs/CoE</div> <ul style="list-style-type: none"> Three(03) | | <div style="background-color: #0056b3; color: white; padding: 5px; margin-bottom: 5px;">Input admissions</div> <ul style="list-style-type: none"> 100% <div style="background-color: #0056b3; color: white; padding: 5px; margin-bottom: 5px;">Success Index</div> <ul style="list-style-type: none"> 0.92 <div style="background-color: #0056b3; color: white; padding: 5px; margin-bottom: 5px;">Placements</div> <ul style="list-style-type: none"> 81% <div style="background-color: #0056b3; color: white; padding: 5px; margin-bottom: 5px;">Higher Education</div> <ul style="list-style-type: none"> 15% <div style="background-color: #0056b3; color: white; padding: 5px; margin-bottom: 5px;">Library Books</div> <ul style="list-style-type: none"> 1583 <div style="background-color: #0056b3; color: white; padding: 5px; margin-bottom: 5px;">Professional Bodies</div> <ul style="list-style-type: none"> ISA ACCS <div style="background-color: #0056b3; color: white; padding: 5px; margin-bottom: 5px;">Internships</div> <ul style="list-style-type: none"> 25 |
|--|----------------------------------|--|

Electronics & Instrumentation Engineering


(formerly known as Instrumentation Technology till 2013 batch)

Achievements







Dr Mamatha M N, Won the best paper award at an (ICAME 2015), Kolkata Paper details: "Design and development of novel algorithms and architectures for patient care monitoring system"
Batch Topper – IUCEE-IGIP (Sep 15 – May16 2016)



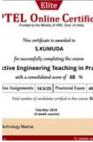
Dr Veena N. Hegde, Volunteer Leader of the Year Award presented by Mr. Steven W. Pflantz, PE., President ISA in Oct 2017.
Conferred an "Award of Excellence" (Top 253 out of 4051 participants) in FDP on "Use of ICT in Education for Online and Blended Learning". conducted by IIT Bombay during May-July 2016




Prof. Preethi Mane -Elite Teacher - NPTEL (Digital Image Processing of Remote Sensing Data)
Certificates and cash prize for the Best three projects selected at the Institutional level.



Prof Ajay Kumar -Elite Teacher - NPTEL (Digital Image Processing of Remote Sensing Data)



Prof. Kumuda ,Elite Teacher - NPTEL (Digital Image Processing of Remote Sensing Data)



Dr Desai, Conferred an "Award of Excellence" (Top 253 out of 4051 participants) in FDP on "Use of ICT in Education for Online and Blended Learning". conducted by IIT Bombay during May-July 2016

Electronics & Instrumentation Engineering

(formerly known as Instrumentation Technology till 2013 batch)

Achievements




Student



Sandeep Kumar and Ashwin S Were VTU Champions for 3 Consecutive years in Wrestling and Judo (2015-18)

Rahul sharma, ISA Celebrating Excellence Member's Choice Award for Section Leader of the Year 2014't from ISA section

Amit Baran, participated in NASA Tech Briefs organised titled "Create the Future Contest 2015".

Aprathim, Best Project Award from D14-ISA Award 2016 at Bombay

Brijesh Gupta participated in Student Games 2017 at Instrumentation Hakathon, March 2017 Partially funded by ISA Bangalore section

Keshav Thakur, selected for International Instrumentation Games, Southern Alberta Institute of Technology, Calgary, Canada 2018

ANNEXURE – IV

Approved Calendar of Events for the Academic Year 2018-19



BMS COLLEGE OF ENGINEERING, BENGALURU-19

Autonomous Institute, Affiliated to VTU

CALENDAR OF EVENTS FOR THE ACADEMIC YEAR 2018-19

UG PROGRAMS: SECOND YEAR ONWARDS

| SEM | SNo | EVENT | Date(s) |
|---------------|-----|--|---------------------------|
| ODD SEMESTER | 1 | Course Registration for Second year onwards (Odd Semester 2018-19) | 01.08.2018 to 02.08.2018 |
| | 2 | Commencement of Classes for the Odd Semester 2018-19 | 03.08.2018 |
| | 3 | Dropping of Courses | On or before 18.08.2018 |
| | 4 | CIE: Quiz#1/AAT | Before Test#1 |
| | 5 | Phase-shift 2018/ Engineers Day | 14.09.2018 and 15.09.2018 |
| | 6 | CIE: Test#1 | 27.09.2018 to 29.09.2018 |
| | 7 | CIE: Quiz#2/AAT | Before Test#2 |
| | 8 | CIE: Test#2 | 29.10.2018 to 31.10.2018 |
| | 9 | Withdrawal of Courses | Before Test#3 |
| | 10 | CIE: Test#3 | 22.11.2018 to 24.11.2018 |
| | 11 | CIE: Lab Tests/Self-Study | 27.11.2018 to 01.12.2018 |
| | 12 | Last working day | 01.12.2018 |
| | 13 | SEE (Semester End Examination) | 08.12.2018 to 26.12.2018 |
| | 14 | Make-Up Examination | 02.01.2019 to 08.01.2019 |
| | 15 | Vacation for Students | 27.12.2019 to 08.01.2019 |
| EVEN SEMESTER | 16 | Course Registration | 09.01.2019 |
| | 17 | Commencement of Classes | 10.01.2019 |
| | 18 | Dropping of Courses | On or before 25.01.2019 |
| | 19 | CIE: Quiz#1/AAT | Before Test#1 |
| | 20 | CIE: Test#1 | 21.02.2019 to 23.02.2019 |
| | 21 | CIE: Quiz#2/AAT | Before Test#2 |
| | 22 | CIE: Test#2 | 25.03.2019 to 27.03.2019 |
| | 23 | UTSAV | 29.03.2019 to 31.03.2019 |
| | 24 | Withdrawal of Courses | Before Test#3 |
| | 25 | CIE: Test#3 | 25.04.2019 to 27.04.2019 |
| | 26 | CIE: Lab Tests/Self-Study | 29.04.2019 to 04.05.2019 |
| | 27 | Open House/Project Exhibition | 04.05.2019 |
| | 28 | Last working day | 06.05.2019 |
| | 29 | SEE (Semester End Examination) | 15.05.2019 to 30.05.2019 |
| | 30 | Make-Up Examination | 08.06.2019 to 15.06.2019 |
| | 31 | Vacation for Students | 31.05.2019 to 31.07.2019 |
| FT | 32 | FAST TRACK SEMESTER | 17.06.2019 to 31.07.2019 |

ANNEXURE – V

Ratified Academic Rules & Regulations with respect to B.Arch.
Autonomous Program - Amended in 2017



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ACADEMIC RULES & REGULATIONS

Applicable to B.Arch autonomous program
Amended in August 2017

1. SHORT TITLE AND COMMENCEMENT

- 1.1 The regulations listed under this head are applicable only to B.Arch program [Autonomous]
- 1.2 The regulations are subject to amendments as may be made by the Academic Council of the college from time to time, keeping the recommendations of the Board of Studies in view. Any or all such amendments will be effective from such date and to such batches of candidates including those already undergoing the program, as may be decided by the Academic Council.

2. DEFINITIONS

- (a) “University” means Visvesvaraya Technological University (VTU)
- (b) “College” means BMS College of Engineering (BMSCE)
- (c) “Commission” means University Grants Commission (UGC)
- (d) “Council” means All India Council for Technical Education (AICTE)
- (e) “COA” means Council of Architecture
- (f) “Statute” means VTU Autonomous College Statute, 2006
- (g) “Academic Autonomy” means freedom granted by the University to the College in all aspects of conducting its academic Programs for promoting academic excellence
- (h) “Autonomous College” means a college notified as an autonomous college as per the VTU Autonomous College Statute, 2006
- (i) “Regular Students” means students who are admitted to B.Arch Program after PUC (10+2) or equivalent
- (j) “Branch” means B.Arch degree program in Architecture only.
- (k) “Course” means a subject either Theory, Studio or Practical identified by its title and code number. For example, Architectural Design - III is a course offered in the third semester & its code is 12AT3DCARD.



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3. NOMENCLATURE OF ACADEMIC PROGRAM

3.1 The nomenclature and the corresponding abbreviations shown below, shall continue to be used for the degree program under the University, as required by the Commission and Council of Architecture:

Bachelor of Architecture (B.Arch)

3.2 Undergraduate degree program offered by the College:

| S. No. | Title of the UG Program | Abbreviation |
|---------------|--------------------------------|---------------------|
| 1 | Architecture | AT |

4. DURATION OF THE ACADEMIC PROGRAM

As a flexible credit system is followed, it is to be noted that the program duration shall be dictated by the period in which a student earns the prescribed credits for the award of degree. Hence, it is possible for an outstanding student to qualify for the award of degree in a shorter time than that of the duration specified for the concerned program.

4.1 Normal Duration

4.1.1 The duration of an academic program shall be five years for B.Arch program.

4.2. Maximum Duration

4.2.1. The maximum period which a student can take to complete a full time academic program shall be twice the normal duration of the program, i.e., Ten years for B.Arch Program.

4.2.2 The maximum period for a program shall also be dictated by the fact that a student has to demonstrate the prescribed minimum academic performance by registering for the prescribed minimum number of credits in every semester, for continuing with the program. This period can be equal to or lesser than the maximum period indicated as in 4.2.1.

4.3 Admission of Students

4.3.1 The admission of students to B.Arch degree program listed under Section 3.1 and 3.2 shall be made by following the State Government and/or University and Policies/Practices.



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- 4.3.2 The candidates with a diploma or any other equivalent qualification approved by the Council of Architecture and the Commission are eligible to join the degree Programs at the beginning of the first year (first semester), as per the prevailing practice in the University.
- 4.3.3 The students can migrate from one Autonomous/Affiliated college to another Autonomous/ Affiliated College under the University at the beginning of the second year (third semester) following the AICTE/COA/VTU/State Government norms in vogue and as amended from time to time.
- 4.3.4 The eligibility criteria for admission of students to UG degree program shall be the same as those prescribed by the University from time to time.
- 4.3.5 The eligibility criteria for admission of students from a non-Autonomous College to an Autonomous College, from one Autonomous College to another Autonomous College and from University Scheme at an Autonomous College to its Autonomous scheme, shall be as fixed by the Academic Council. The eligibility criteria for admission of students from other Universities to an Autonomous College shall be fixed by the Academic Council by getting the individual cases examined through the Board of Studies, after which, the names of eligible candidates (qualifying for admission as per norms laid down by the University from time to time) are recommended to the University for its approval.

4.4 Semester Scheme

The semester scheme is being adopted since it provides several benefits to technical education program in contrast to the annual scheme of learning.

4.5 Academic Calendar

An academic year consists of two regular semesters and a fast track semester; the details of which are shown in Table 1.



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Table 1: A TYPICAL SCHEDULE OF ACADEMIC YEAR

| S.No. | Activity | Description | |
|-------|---|--|---------------------|
| 1 | Number of semesters in an academic year | Two regular semesters (Odd & Even) and a Fast Track Semester | |
| 2 | Duration of Regular Semester | 19 weeks | |
| 3 | Duration of Fast Track Semester | 08 weeks | |
| 4 | Academic activities (duration in weeks) | Regular Semester(s) | Fast Track Semester |
| | Course Registration | 0.5 | 0.1 |
| | Course Work | 15.5 | 7.0 |
| | Examination preparation | 1.0 | 0.2 |
| | Examination (SEE) | 1.0 | 0.2 |
| | Declaration of Results | 1.0 | 0.5 |
| 5 | Evaluation | Continuous Internal Evaluation (CIE) and Semester End Examination (SEE), both have equal weightage in the student's performance in Course/Laboratory Work and other activities | |
| 6 | Other Items | The total number of working days in an academic year shall be ~ 180 | |
| | | Academic schedules prescribed by the College shall be strictly adhered to by all the concerned | |
| | | Students failing in any Course(s) shall register for the same again (re-register) and shall secure CIE and SEE afresh in each course(s). This shall continue until a pass grade is obtained in the said course(s). | |
| 7 | Fast Track Semester | Fast Track Semester conducted for the benefit of the students to clear their failed courses, if any. (refer Regulation-8) | |



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5. PROCTOR SYSTEM

5.1 Introduction

The faculty advisory system (Proctoring system) is to help the students to complete their studies successfully & comfortably. A faculty is called as proctor and the student as proctee.

5.2. Objective(s):

- 5.2.1. To advice the students in their academic requirements.
- 5.2.2 To guide/mentor the students appropriately from time to time.
- 5.2.3 To provide supportive care to the students from time to time

5.3 Roles & Responsibilities:

- 5.3.1 The proctor shall pay complete attention in respect of the student who fails to satisfy minimum attendance (85%) in all courses & internal marks (40%) in each of the theory, studio and practical as per the regulations.
- 5.3.2 The proctor shall get their copy of proctor diary updated and ensure that student proctor diary is also completed in all respects from time to time.
- 5.3.3 The proctor shall arrange for a meeting with the students at least twice in a month and submit the proceedings to the Director.
- 5.3.4 The proctor shall invite the parent for discussion at least once in every semester to update the academic progress of their ward.
- 5.3.5 The Proctor should arrange to send the progress reports to the parent furnishing the details of attendance, class marks, examination results, etc. These reports shall be sent twice in a semester (preferably after the conduction of Test1 & Test2) to the parents/guardians of all the concerned students.
- 5.3.6 Proctor shall ensure that the students should not partake in any sort of ragging activity in outside of the campus/hostel and they shall not indulge in any anti-social activities and acts unbecoming of a student.

5.4 Expected Outcome:

Reduce the failure rate, motivate the students & improve the overall performance and quality of the student.



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6. CREDIT SYSTEM

6.1 General

6.1.1 The institution follows a Choice Based Credit System (CBCS) from the academic year 2008-09 onwards. The students have an option of choosing from a wide range of electives (department and institutional) and complete the program at their own pace. Value added courses are also offered as a part of extended learning in inter-disciplinary and multi-disciplinary domains. Thus the CBCS facilitates continuous learning and assessment.

Credit System has many advantages over the conventional system of organizing academic Programs; in particular the CBCS for the program will provide a great opportunity to the students in their preparation to meet the challenging opportunities ahead.

6.1.2 In the Credit System, the course work of students is unitized and one credit is assigned to each unit after a student completes the teaching-learning process as prescribed for that unit (credit) and is successful in its assessment.

6.1.3 Credit Definition

One unit of course work is assigned one credit in the regular semester (odd/even) for:

- a) Theory Course conducted for one hour/week/semester
- b) Studio and Practical classes are conducted as per the course content in the syllabus
- c) Self-Study in a Course, for four hours/week/semester

Note: Other student activities like study tours, industrial visits, guest lectures shall not carry any credits.

6.1.4 Course Registration

A student shall register for the courses to earn credits for meeting the requirements of the degree program. Such courses together with their grades and the credits earned will be included in the Grade Card issued by the College at the end of each semester and it forms the basis for determining the student's academic performance in that semester.



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6.1.5 Audit/Value Added Courses

In addition, a student can register for courses such as value added courses for audit only with a view to supplement his/her knowledge and/or skills. But, these shall not be taken into account in determining the students' academic performance in the semester.

6.2 Credit Structure

6.2.1 A typical Credit Structure for course work (hrs/wk/sem) in B.Arch Program is shown in Table 2:

Table- 2

| Course | Credits | | | | |
|--------|---------|---|---|----|-------|
| | S | T | P | SS | Total |
| ABC | 6 | 0 | 0 | 1 | 7 |
| EFG | 3 | 1 | 0 | 0 | 4 |
| HIJ | 2 | 1 | 0 | 0 | 3 |
| LMN | 0 | 3 | 0 | 0 | 3 |
| PQR | 0 | 1 | 1 | 0 | 2 |

7. Course Load in regular semester(s):

7.1 The course load varies from 23 to 27 credits per semester.

7.2 In the first two semesters, the prescribed course load per semester is mandated. Withdrawal/dropping of courses in the first year (first two semesters) is not allowed.

7.3 In higher semesters, the applicable course load per semester may vary from a minimum of 20 credits to a maximum of 30 credits. The variation in credits depends on CGPA. This flexibility enables students (from 3rd semester onwards) to cope-up with the course work and helps in improving their academic performance and optimizes the learning outcome.

7.4 A student may be permitted to register for additional courses (limiting to 30 credits), from third semester onwards. This is subject to the following conditions:

- The student has secured a CGPA ≥ 8.5
- The student doesn't have more than two backlogs from the previous semesters
- The student shall ensure that there is no overlapping in time-table for the period and obtain concurrence from the Proctor.



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- d) The student shall submit a copy of documentary evidence in respect of the above (a,b,c) while seeking approval from the Director
- e) It is mandatory and responsibility of the student to ensure all the above conditions (a to d) are met for registering additional courses over and above the prescribed credits in a semester, otherwise the registrations for the additional courses shall deemed to be cancelled.

7.5 The total number of credits required to be earned by a student to qualify for the award of the degree in Architecture is as shown in Table 3

Table-3

| Program | Normal Duration | | Total number of credits to be earned |
|---------|-----------------|----------|--------------------------------------|
| | Years | Semester | |
| B.Arch | 5 | 10 | 250 |

8. Course load in Fast Track Semester:

The Fast Track semester is provided for helping students who have failed in their examinations. The Fast Track semester is provided to help the student to avoid losing an academic year.

It is the discretion of the department whether to offer the fast track semester or not. Fast Track semester is a special semester and the student cannot demand it as a matter of right.

During the Fast track semester, a student is permitted to re-register for course(s) where he/she has secured F-Grade (no new courses are allowed for registration). A student is permitted to register for a maximum of 12 credits

The student has to pay a special fee prescribed by the College to register for a course in the Fast Track semester. All courses may not be offered and the student has to opt from those courses offered by the department in a given Fast Track Semester.

The department may offer some courses based on the availability of resources in hand.

9. Curriculum Framework

- 9.1.** The maximum number of contact hours for the students will be around 30 hrs/week. This will be of help to students in getting enough time and opportunity to develop their creative skills and abilities, benefitting from Add-On courses and also those taken for audit, in addition to the ones prescribed for credit under the B.Arch Program and preparing them for challenging and exciting careers ahead



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9.2 Curriculum framework is important in setting the right direction for a Degree program, as it takes into account the type and quantum of knowledge necessary to be acquired by a student to qualify for award the B.Arch degree.

9.3 Besides, this also helps in assigning the credits for each course, sequencing the courses semester-wise and finally arriving at the total number of courses to be studied and the total number of credits to be earned by a student to fulfill the requirements for a particular conferment.

9.4 B.Arch Degree Program curriculum

Table-4 shows a typical Curriculum framework for BArch degree program:

Table-4

| SL.No. | Subject Area | Average No. of Credits |
|---------------|---------------------------------------|-------------------------------|
| 1 | Humanities and Social Science courses | 04 |
| 2 | Professional Core courses | 176 |
| 3 | Professional Elective courses | 04 |
| 4 | Departmental/Program Major Project | 18 |
| 5 | Professional Training | 48 |
| Total | | 250 |

10 Mandatory Courses for B.Arch. program

The B.Arch program also requires the inclusion of courses like Kannada language, study tour/ vacation assignment and Constitution Law suggested by BOS for the completion of B.Arch program as mandatory courses. These courses will not carry any credits; but, a pass in each such course after attaining required CIE or SEE requirements during the program shall be a necessary requirement for the student to qualify for the award of Degree

11 ASSESSMENT

The College has effective examination and assessment system for each activity.

11.1 Achievement Testing

11.1.1 The assessment of student's performance during and/or at the conclusion of a program has to be done using examinations. In general, an examination may have different objectives, like achievement testing, prediction testing, endurance testing, testing of creativity and testing for ranking.

11.1.2 Typically achievement testing is done in two parts as follows:

- a) Sessional: Involving Continuous Internal Evaluation (CIE), to be conducted by the course faculty all through the semester; and, to include Tests, Quiz, Reviews, Assignments and Portfolio submissions.



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- b) Terminal: Covering Semester End Examination (SEE), to be conducted as viva exam or written exam on the dates to be fixed at the College level.
- c) Both CIE and SEE have equal (50:50) weightage. Student's performance in a course shall be judged by taking into account the results of CIE and SEE individually and also together.

11.2 Question Papers

11.2.1 **Achievement Testing:** For an effective achievement testing of the students in a course, a good question paper needs to be used as the principle tool. This makes it necessary for the question papers used at CIE and SEE to:

- Cover all sections of the course syllabus uniformly;
- Be unambiguous and free from any defects/errors;
- Emphasize knowledge testing, problem solving & quantitative methods;
- Contain adequate data / other information on the problems assigned;
- Have clear and complete instructions to the candidates.

11.2.2 **Question Paper Planning:** Question Paper to cover the entire syllabus, with a provision for the students to answer questions from the full syllabus. As students need to be given some choice in the questions included in the Paper, it is preferred for the Question Papers at SEE, in particular, to have built in choice. This factor shall be taken note of by the Board of Examiners (BOE), while planning for the Question Papers.

11.2.3 Besides, it is also necessary for the course syllabi to be well drafted, be defect-free and be properly unitized (or modularized) to enable the setting of good question papers covering the whole syllabus. These aspects have to be taken into account, in particular, by the Board of Studies (BOS).

11.2.4 **Typical Question Paper:** The questions to be included in the Question Papers at CIE and SEE can be as follows and the course faculty as well as the external examiners shall have to be well trained to set them:

Comprehensive questions that have to be answered in detail. Such a question paper to be useful in the testing of overall achievement and maturity of the students in a subject, through long questions relating to theoretical/practical knowledge, derivations, problem solving, application and quantitative evaluation.



11.3 Examinations/Assessment

11.3.1 Continuous Internal Evaluation (CIE): The CIE shall be conducted by the faculty handling the Course. It is the responsibility of the faculty handling a course to spell out the teaching/assessment pattern of the CIE such as test, quiz, assignment, seminar, term paper, open ended experiments, mini-projects, two minute videos, MOOCs etc. and also the necessary rubrics to students well in advance. The faculty shall maintain transparency, announce the CIE results well in time

11.3.2 Components in a course:

B.Arch Program includes the following type of courses namely Theory, Studio and Practical. A given course will be classified based on the combination of one or more of these components.

11.3.3 Types of Courses:

There are three types of courses – Theory, Studio and Practical

1. **Theory** is a course which has only one component i.e., theory.
2. **Studio** is a course which has both theory and drawing components and Design studios include the self-study component.
3. **Practical** is a course which has two components namely theory and practical.

11.3.4 Alternative Assessment:

In order to encourage innovative methods while delivering a course, the faculty members have been encouraged to use the Alternative Assessment Tool (AAT). Thus AAT enables faculty to employ innovative methods and design own assessment patterns during the CIE. However, the usage of AAT is completely optional. The AAT enhances the autonomy (freedom and flexibility) of individual faculty and enables them to create innovative pedagogical practices. If properly applied, the AAT converts the classroom into an effective learning space. The AAT includes seminar, assignments, term paper, open ended experiments, mini-projects, two minute videos, MOOCs etc.

The weightage of AAT may vary from 20% to 40% of the CIE as approved in the 9th ACM (Academic Council Meeting) in order to encourage faculty for effective teaching-learning practices.

However, it is mandated for a faculty to obtain prior permission from the Director for implementing AAT and announce the same in the respective class before the commencement of a course.



11.3.5 ASSESSMENT PATTERNS

The weightages of components in CIE for various courses are as shown below

Table-5

| Course | Test | Quiz | Assignment/ Portfolio/ Reviews | Total Marks/ CIE |
|---------|------|------|--------------------------------------|---------------------|
| LMN | 80 | 20 | - | 100 |
| LMN | 60 | 10 | 30 | 100 |
| EFG/HIJ | 40 | 10 | 50 | 100 |
| ABC | - | - | 100 | 100 |

Note:

* Three tests will be conducted; best two tests will be considered for final assessment.

Two quizzes will be conducted and both will be considered for final assessment.

If AAT is employed, the concerned teacher shall prescribe the pattern of assessment prior to commencement of the classes

Note: Students must secure a minimum of 40% in CIE and should have 85% attendance as qualifying criteria for Semester End Examination in the respective course.

11.4. Semester End Examination (SEE): The SEE shall be conducted jointly by the course faculty and an external examiner appointed for this purpose by the College. The external examiner is associated with the work of question paper setting/evaluation/moderation/lab examination/project evaluation and others.

11.4.1 SEE Answer Scripts: The answer scripts of SEE are evaluated by the course faculty and moderated/evaluated by the external examiner. A committee of the College may oversee and ensure the quality and standard of evaluation and of the grades awarded in all the cases.

11.4.2 External Review of SEE: An external review shall be conducted under the aegis of the Board of Examiners (BOE) of the College by appointing a panel of subject experts from outside the College for this purpose and aiming at totality in the review of SEE operation and covering such steps as, question paper review, checking random samples of answer scripts, analysis of results/grades awarded, etc. This step is necessary for gaining the confidence of the University and also of the society at large, for the fairness and transparency in the system.



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11.5 Passing Standards: High standards are maintained in all aspects of the examination. The absolute grading method is followed. The minimum standard of passing in respect of CIE and SEE for each course is shown in Table-6.

Table-6: Passing Standards using Absolute Grading

| Evaluation Method | Passing Standard |
|-------------------|--------------------|
| Sessional (CIE) | Score: $\geq 40\%$ |
| Terminal (SEE) | Score: $\geq 40\%$ |

11.6 There shall be **NO RE-EXAMINATION** for any Course in the credit system to take care of such students who have:

- a) Absented themselves from attending CIE or SEE; without valid reasons; or,
- b) Failed (Grade F) to meet the minimum passing standards prescribed for CIE and/or SEE; or,
- c) Been detained for want of attendance; or,
- d) Withdrawn (Grade W) from a Course;
- e) SEE examination of courses having viva-voce mode of examination

Such students listed above (a to e), shall be required to re-register for the Course(s) and go through CIE and SEE again and obtain a Grade equal to or better than E in each case. While such students shall have to re-register for the same Course(s) in case of core courses, they can re-register for alternative Course(s) from among the elective courses, as the case may be. The re-registration shall be possible when the particular course is offered in regular semesters.

12. ATTENDANCE REQUIREMENT

12.1 All students shall maintain a minimum attendance of 85% in each course registered. In case of shortfall, the Director shall consider and may condone deficiency up to a limit of 10% in special cases and shall submit a list of such candidates to the office of COE. However, all the relevant documents pertaining to condonation of attendance shall be maintained by the department and produced as and when required by the Institutional authorities. **Any student failing to meet the above standard of attendance in any course(s) registered shall not be allowed to appear for SEE of such course(s).**



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- 12.2 In the event of condonation, the students are not eligible for make-up examination in that course during that semester.
- 12.3 Attendance at CIE and SEE: Attendance at all examinations, both CIE and SEE of each course registered shall be compulsory for the students and there shall not be any provision for re-examination/consideration.
- 12.4 Any student against whom any disciplinary action by the College is pending shall not be permitted to attend any SEE in that Semester.
- 12.5 Each Semester is considered as a unit and the candidate has to put in a minimum attendance of 85% in each course with a provision of condonation of 10% attendance for reasons such as medical emergencies and legitimate grounds.
- 12.6 The basis for the calculation of the attendance shall be the period prescribed by the College by its calendar of events. For the first semester students, the same is reckoned from the date of admission to the program.
- 12.7 The students shall take note of his/her attendance status periodically from the respective faculty and strive to make up the shortage. However, the department shall periodically announce the attendance status of the students. Non-receipt of such information from the college will not be considered as valid reason for exemption from the attendance requirements.
- 12.8 If a student **does not fulfill the attendance requirements** in any course, he/she is not permitted to attend the Semester End Examination (SEE) in that course and is deemed to have been **awarded "F" grade** in that course.

13. GRADING

13.1 General

- 13.1.1 As in recent years, the grading system has replaced the evaluation of student's performance in a Course based on absolute marks. This is to ensure uniformity in the grading practice at different autonomous colleges to facilitate the migration of students or transfer of credits among Autonomous Colleges under the University.
- 13.1.2 Letter Grades: A letter grade is basically a qualitative measure (an alphabet/letter) giving the performance of a student, such as, Outstanding (S), Excellent (A), Very Good (B), Good (C), Average (D), Poor (E) and Unsatisfactory/Fail (F), based on the raw score (marks, as in conventional practice) obtained by the student. This is usually arrived at after the student's performance in a Course, which includes both CIE and SEE, is assessed and raw score (marks) for the total are awarded to begin with, followed by grouping of all the students in a Course under different grading levels, as above.



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13.1.3 Absolute Grading: The College has adopted the absolute grading system.

13.2 Grade Points

13.2.1 Depending on the letter grades assigned, a student earns certain grade points. As the grading system can have different grade points, like 5, 8 and 10, more number of points in the scale, will be necessary to provide a better resolution in the performance assessment.

The College follows the 10-point grading system, as given in the Table-7:

Table-7: Grade Points Scale (Absolute Grading)

| Level | Out-standing | Excellent | Very Good | Good | Average | Poor | Fail |
|----------------------------|--------------|---------------|-----------------|---------------|---------------|---------------|------|
| Grade | S | A | B | C | D | E | F |
| Grade Points | 10 | 09 | 08 | 07 | 05 | 04 | 00 |
| Score (Marks) Range (%) | ≥90 | ≥75 - < 90 | ≥= 60 - < 75 | ≥50 - < 60 | ≥45 - < 50 | ≥40 - < 45 | < 40 |

13.2.2 The grade points given in Table -7 help in the evaluation of credit points earned by the student in a Course as the credit points are equal to the number of credits assigned to the Course multiplied by the grade points awarded to the student in that Course. This shall be used in arriving at the credit index of the student for that semester, as it is the sum total of all the credit points earned by the student for all the Courses registered in that semester.

13.2.3 Earning of Credit: A student shall be considered to have completed a course successfully and earned the credits if he/she secures an acceptable letter grade in the range S to E. Letter grade 'F' in any Course implies failure of the student in that Course and no credits earned.

13.2.4 Transitional Grades: The transitional grades, such as, 'I', 'W' and 'X' shall be awarded to a student in the following cases. These transitional grades shall be converted into any one of the letter grades (S to F) after the student completes his/her Course requirements, including examination.

13.2.4.1 **Grade 'I':** Awarded to a student having satisfactory attendance at classes and meeting the passing standard at CIE in a Course, but remained absent from SEE for valid and convincing reasons acceptable to the College, like:

- (i) Accident or severe illness leading to hospitalization, which disables the student from attending Semester End Examination (SEE);
- (ii) A calamity in the family at the time of SEE, which requires the student to be away from the College;



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(iii) In the event of (i) and (ii) above, it is the responsibility of the student/parent/guardian to inform the college authorities (proctor/Director) immediately. The information may be in the form of either written communication, personal communication by parent/guardian/peer or an e-mail or mobile message. The candidate needs to submit all the relevant evidences (hospital reports, police reports, certificates from competent authorities, etc.). Intimation is mandatory. Any intimation after the conduct of examination will not be entertained.

13.2.4.2 **Grade 'X':** Awarded to a student having attendance $\geq 85\%$ and CIE rating ($\geq 60\%$) in a course, but SEE performance observed to be poor, which could result in an overall 'F' Grade in the Course. No 'F' Grade is awarded in this case but student's performance record is maintained separately. The student will be provided an opportunity in the make-up examination; **however, the grades ('D' to 'S') will be reduced to the next lower grade and grade 'E' will remain unchanged.**

13.2.5 **Grade 'W':** Awarded to a student having satisfactory attendance at classes, but withdrawing from that Course before the prescribed date in a semester under faculty advice; the student shall re-register for the said course in the regular semesters only. All the 'W' grades awarded to the students shall be eligible for conversion to the appropriate letter grades only after the concerned students re-register for these Courses in regular semesters (Odd/Even, not in fast-track semester) only and fulfill the passing standards.

13.2.6 **Grade Card:** Each student shall be issued a Grade Card at the end of each semester. This will have a list of all courses registered by a student in the semester along with the credits. In addition to the letter grades with grade points, the grade card may also contain transitional grades 'I' and 'X' which do not carry any grade points. Hence, only the courses registered for credit and having grade points shall be included in the computation of student's performance i.e., SGPA and CGPA.

However, the Courses taken for audit will not form part of this computation. The results of mandatory courses, which are of the non-credit type, shall also be reflected in the Grade Card as 'PP' (for Passed) or 'NP' (for Not Passed). It may be noted that each student shall have to obtain the grade 'PP' in each mandatory course to qualify for award of the Degree by the University.

13.2.7 **Make-up Examination:** The Make-up Examination facility shall be made available to students who have secured 'I' or 'X' grade; The standard of the Make-up Examination shall be the same as that of regular SEE for the Courses. The Make-up Examination shall be held as per dates notified in the Academic Calendar. However, it will be possible for the autonomous institution to modify the Academic Calendar with the permission of the Academic Council.



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- 13.2.8 All the transitional grades ('I' and 'X') awarded to a student shall have to be converted to an appropriate letter grade after the make-up examination. If a student fails to appear for the make-up examination, the 'I' and 'X' grades shall be automatically converted to 'F' grade, after the last scheduled Make-up Examinations.

13.3 Grade Point Averages

- 13.3.1 **SGPA and CGPA:** The credit index can be used further for calculating the Semester Grade Point Average (SGPA) and the Cumulative Grade Point Average (CGPA), both of which are important performance indices of the student. While SGPA is equal to the credit index for a semester divided by the total number of credits registered by the student in that semester, CGPA gives the sum total of credit indices of all the previous semesters divided by the total number of credits registered in all these semesters.

The SGPA and CGPA will be computed as shown below:

Semester Grade Point Average (SGPA)

$\sum[(\text{Course credits}) \times (\text{Grade points})]$ (for all Courses in that semester excluding transitional grades)

 $\sum[(\text{Course credits})]$ (for all courses in that semester excluding transitional grades)

Cumulative Grade Point Average (CGPA)

$\sum[(\text{Course credits}) \times (\text{Grade points})]$ (for all Courses excluding those with F & transitional grades until that semester)

 $\sum[(\text{Course credits})]$ (for all Courses excluding those with F & transitional grades until that semester)

Both SGPA and CGPA facilitate the declaration of academic performance of a student, at the end of a semester and at the end of successive semesters respectively. Both SGPA and CGPA shall be normally calculated up to the second decimal position, so that the CGPA, in particular, can be made use of in ranking the students in a class. If two students get the same CGPA, the tie should be resolved by considering the number of times a student has obtained higher SGPA; but, if it is not resolved even at this stage, the number of times a student has obtained higher grades like S, A, B etc., shall be taken into account in ranking the students in a class.



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13.3.2 An illustrative example given in Table-8 below indicates the use of the above two equations in calculating SGPA & CGPA:

Table-8: Typical example - Calculation of SGPA/CGPA

| Semester | Course Code | Credits | Grade | Grade Points | Credit Points | SGPA | CGPA |
|------------|-------------|---------|-------|--------------|---------------|----------------|----------------|
| I | AT1DCADW | 7:0:0 | B | 8 | 56 | | |
| I | AT1DCBCM | 3:1:0 | F | 0 | 0 | | |
| I | AT1DCGRA | 2:1:0 | A | 9 | 27 | | |
| I | AT1DCHOA | 0:3:0 | A | 9 | 27 | | |
| I | AT1DCSTR | 0:3:0 | F | 0 | 0 | | |
| I | AT1DCBDV | 3:1:0 | D | 5 | 20 | | |
| I | AT1DLCAA | 0:1:1 | E | 4 | 8 | | |
| TOTAL | | 26(19*) | | | 138 | 5.31 138/26 | 7.26 138/19 |
| | | | | | | | |
| Semester | Course Code | Credits | Grade | Grade Points | Credit Points | SGPA | CGPA |
| II | AT2DCADW | 7:0:0 | C | 7 | 49 | | |
| II | AT2DCBCM | 3:1:0 | B | 8 | 32 | | |
| II | AT2DCGRA | 2:1:0 | D | 5 | 15 | | |
| II | AT2DCHOA | 0:3:0 | E | 4 | 12 | | |
| II | AT2DCSTR | 0:3:0 | A | 9 | 27 | | |
| II | AT2DCARA | 0:3:0 | F | 0 | 0 | | |
| II | AT2DLCAA | 0:1:1 | B | 8 | 16 | | |
| TOTAL | | 25(22*) | | | 151 | 6.04 151/25 | 7.05 289/41 |
| | | | | | | | |
| Semester | Course Code | Credits | Grade | Grade Points | Credit Points | SGPA | CGPA |
| Fast Track | AT1DCSTR | 0:3:0 | F | 0 | 0 | | |
| Fast Track | AT2DCARA | 0:3:0 | D | 5 | 15 | | |
| | | 6(3*) | | | 15 | 2.50 15/6 | 6.91 304/44 |



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| Semester | Course Code | Credits | Grade | Grade Points | Credit Points | SGPA | CGPA |
|------------|-------------|---------|-------|--------------|---------------|----------------|----------------|
| III | AT3DCARD | 6:0:0:1 | B | 8 | 56 | | |
| III | AT3DCBCM | 3:1:0 | W | - | - | | |
| III | AT3DCARP | 3:1:0 | A | 9 | 36 | | |
| III | AT3DCHOA | 0:3:0 | A | 9 | 27 | | |
| III | AT3DCSTR | 0:3:0 | F | 0 | 0 | | |
| III | AT3DCSER | 0:3:0 | D | 5 | 15 | | |
| III | AT3DCTOD | 0:3:0 | E | 4 | 12 | | |
| III | AT3DMVST | 0:0:0 | PP | | 0 | | |
| | | 23(20*) | | | 134 | 5.83 134/23 | 6.84 438/64 |
| | | | | | | | |
| Semester | Course Code | Credits | Grade | Grade Points | Credit Points | SGPA | CGPA |
| IV | AT4DCARD | 6:0:0:1 | C | 7 | 49 | | |
| IV | AT4DCBCM | 3:1:0 | B | 8 | 32 | | |
| IV | AT4DCCRA | 0:3:0 | D | 5 | 15 | | |
| IV | AT4DCHOA | 0:3:0 | E | 4 | 12 | | |
| IV | AT4DCSTR | 0:3:0 | A | 9 | 27 | | |
| IV | AT4DCSER | 0:3:0 | F | 0 | 00 | | |
| IV | AT4DCSSA | 0:1:1 | B | 8 | 16 | | |
| | | 25(22*) | | | 151 | 6.04 151/25 | 6.85 589/86 |
| | | | | | | | |
| Semester | Course Code | Credits | Grade | Grade Points | Credit Points | SGPA | CGPA |
| Fast Track | AT1DCBCM | 3:1:0 | B | 8 | 32 | | |
| Fast Track | AT1DCSTR | 0:3:0 | D | 5 | 15 | | |
| Fast Track | AT4DCSER | 0:3:0 | E | 4 | 12 | | |
| | | 10(10*) | | | 59 | 5.90 59/10 | 6.75 648/96 |

*Total No. of credits excluding those with 'F' and transitional grades; this is particularly Important to keep track of the number of credits earned by a student up to any semester.

13.3.3 Vertical Progression: Minimum standards for SGPA and CGPA together with the minimum number of credits are laid down for the vertical progression of students. This facilitates the mobility of students from one College to another and also avoids confusion among the students. The vertical progression of students is applied between academic years only.



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The following are the prescribed standards for vertical progression:

- a) Minimum Standard for SGPA =5.0
- b) Minimum Standard for CGPA =5.0 (at the end of each academic year)
- c) Maximum Number of 'F' Grades that can be carried at the end of any academic year is **four only**
- d) The maximum number of withdrawals at any given time shall not exceed **two courses** subject to maintaining the minimum registration requirements

However, failure to secure a minimum CGPA = 5.0 at the end of any semester for the first time, shall **attract a warning** before allowing the student to continue in the next semester.

13.3.4 **Award of Class:** The class will be awarded after students earn a total of 200 credits. The Table-9 shows the conversion of CGPA into percentage of marks and the award of class thereon.

Table-9: Award of Class

| Range of Grade Point Average (SGPA or CGPA) | Percentage of Marks | Class |
|---|----------------------|------------------------------|
| ≥ 5.75 and < 6.75 | ≥ 50 and < 60 | Second Class |
| ≥ 6.75 and < 7.75 | ≥ 60 and < 70 | First Class |
| ≥ 7.75 | ≥ 70 | First Class with Distinction |

Note: The percentage of marks for a given SGPA/CGPA, can be computed using the formula: % MARKS SCORED = $[(CGPA - 0.75) \times 10]$

14. Other Academic Matters

Time Schedules

14.1 **Academic Schedules:** An Academic Calendar is published before the commencement of every academic year to assist the students and faculty. The calendar includes, dates for registration of courses, dropping of courses and withdrawal from courses. This enables the students to be well prepared, minimize their chances of failure in CIE and / or SEE and take full advantage of the flexibility provided by the credit system



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14.2 Registration of Courses: Each student shall have to register for course work at the beginning of a semester as prescribed in the academic calendar. The student has to compulsorily register for all the stipulated credits in the first year of the Program. In the subsequent years (higher semesters i.e., third semester onwards) the registrations shall be within the limits of minimum (≥ 20) and maximum (≤ 30) credits. A period of 2-3 days is assigned for this event to facilitate the students to seek faculty advice and discuss with the proctor/faculty prior to registering for courses.

14.3 Dropping of Courses: A specific period in the middle of a semester is fixed for this purpose and to help review the student's performance in CIE by the faculty advisors (proctors). The students having poor performance are facilitated to drop the identified course(s) (up to the minimum credits specified for the semester) in the higher semesters only (i.e., third semester onwards) without being mentioned in the Grade Card. Such Courses to be re-registered by these students in the regular semesters at a later time.

14.4 Withdrawal from Courses: A specific period is identified towards the end of a semester to help review the students' performance in CIE by the Proctor who shall advise the students having poor performance to withdraw from identified course(s) (up to the minimum credits specified for the semester) with mention in the Grade Card (Grade 'W'). Such Courses to be re-registered by these students in the main/regular semesters at a later time.

When to withdraw?: A student is allowed to withdraw from a Course(s) after one week from the last date of the second internal test (CIE) or as mentioned in the Academic Calendar.

Separate circular/notification shall not be issued in this regard. It is the responsibility of the student to withdraw from the courses with in the stipulated time failing which student will have to continue with the course and fulfill the academic requirements

14.5 Temporary withdrawal from Program:

14.5.1 A student may withdraw temporarily from the Program on grounds like, prolonged illness, grave calamity in the family or any other serious happening. The withdrawal shall be for periods which are integral multiples of a semester, provided that:

- The student applies to the College within 6 weeks of the commencement of the semester or from the date he/she last attended the classes, whichever is later, stating fully the reasons for such a withdrawal, together with supporting documents and endorsement of his/her parent/guardian.



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- The College is satisfied of the genuineness of the case and that, even by taking into account the expected period of withdrawal, the student has the possibility to complete the Program requirements within the time limits specified by the University.
- The student does not have any dues or demands at the College/University including tuition and other fees as well as library material.

14.5.2 A student availing of temporary withdrawal from the College under the above provision shall be required to pay such fees and/or charges as may be fixed by the College until such time as his/her name appears on the Students' Roll List. However, **it may be noted that the fees/charges once paid shall not be refunded.**

14.5.3 Normally, a student will be entitled to avail **the temporary withdrawal facility only once during his/her studentship of the Program.** However, any other concession for the concerned student shall have to be approved by the Academic Council of the College. Hence, the students shall be advised by the Principal to use this provision only in exceptional cases.

14.6 Termination from the Program

A student shall be required to withdraw from the Program and leave the College on the following grounds:

- 14.6.1 Failure (getting 'F' Grade) and not passing a Course to earn credits for the same, in spite of **five attempts.**
- 14.6.2 Failure to secure a CGPA ≥ 5.00 on **three** consecutive occasions to lead the student being asked to discontinue the Program and leave the College (However, failure to secure a CGPA ≥ 5.00 at the end of any semester for the first time, to attract warning before approval of the student to continue in the following semester).
- 14.6.3 Absence from classes for **two consecutive semesters** (Odd and Even) at a time without leave of absence being granted by competent authorities.
- 14.6.4. Failure to meet the **standards of discipline** as prescribed by the College from time to time;
- 14.6.5. Successive **Failures:** A student who has not been able to obtain eligibility for third semester **even after three academic years** will be terminated from the program. However, such a student can re-join the B.Arch Program in the College as a fresh student to the First Year.

14.7 Student's Feedback

- 14.7.1 The college obtains feedback from students on their course work and various academic activities conducted. The feedback is obtained on-line from the students at regular intervals maintaining confidentiality.



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- 14.7.2 The feedback received from the students is reviewed/discussed by a committee constituted for the purpose and necessary corrective measures are taken.

14.8 Graduation Ceremony

- 14.8.1 The College conducts annual Graduation Day ceremony for the award of Degrees to students completing the prescribed academic requirements. The Graduation Day is conducted after the University Convocation.
- 14.8.2 The College awards Ranks and Medals to the meritorious students during the Graduation Day Ceremony to encourage the students to strive for excellence.

15. Interpretation

Any question as to the interpretation of these rules and regulations shall be decided by the College, whose decision shall be final and binding on the student in the matter. The College shall also have the power to issue clarifications to remove any doubt, difficulty or anomaly, which may arise in regard to the implementation of these regulations.

:: NOTE ::

These rules and regulations may be altered/changed from time to time by the academic council. Failure to read and understand the rules is not an excuse.