

(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C.Nagar, K.Vellakulam - 625 701, (Near Virudhunagar), Madurai District.

ANNEXURE I

DATE: 17th July, 2020, Friday

Time: 2.30 PM

 $\underline{\textbf{Meeting Link:}}\ \underline{\textbf{https://meet.google.com/gbc-nepe-neu}}$



OF

KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

S.P.G.ChidambaraNadar—C.Nagammal Campus, S.P.G.C.Nagar,K.Vellakulam - 625 701 Near Virudhunagar,Madurai District.

Phone: 04549 - 278791, 278171

Fax: 04549-278172

E-mail: mail@kamajengg.edu.in

Dr. ANANT ACHARY

CHAIRMAN

Date: 17.07.2020

PROCEEDINGS OF THE 1ST MEETING OF THE ACADEMIC COUNCIL (ONLINE MODE)

KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY, HELD AT 02.30 P.M. ON 17.07.2020

MEMBERS PRESENT:

Thiruvalargal

1. Dr.AnantAchary, M.Tech., Ph.D.,

Principal,

Kamaraj College of Engineering and Technology, Madurai.

Chairman of the Academic Council

2. Dr. M. Vasanthi, M.Sc., Ph.D.,

HoD/BT and Dean (Academic Courses),

Kamaraj College of Engineering and Technology, Madurai.

Member Secretary

3. Dr. M.IndraDevi, M.E., Ph.D.,

HoD/CSE,

Kamaraj College of Engineering and Technology, Madurai.

Member

4. Dr. R.SureshBabu, M.E., M.B.A., Ph.D.,

HoD/ECE,

Kamaraj College of Engineering and Technology, Madurai.

Member

5. Dr. S.Jeyadevi, M.E., Ph.D.,

HoD/EIE,

Kamaraj College of Engineering and Technology, Madurai.

Member

6. Dr. S.Gandhi, M.Tech., Ph.D.,

HoD/PT,

Kamaraj College of Engineering and Technology, Madurai.

Member

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CHAIRMAN

7. Dr. P.Subathra, M.E., Ph.D,

HoD/IT,

Kamaraj College of Engineering and Technology, Madurai.

Member

8. Dr. S.Kalyani, M.E., Ph.D.

HoD/EEE & Dean (Examinations),

Kamaraj College of Engineering and Technology, Madurai.

Member

9. Dr. S.Senthil, M.E., Ph.D.,

HoD/Mechanical Engg.,

Kamaraj College of Engineering and Technology, Madurai.

Member

10. Dr. R.Lakshmi, M.E., Ph.D.,

HoD/Civil Engg.,

Kamaraj College of Engineering and Technology, Madurai.

Member

11. Dr. K.Kannan, M.E., Ph.D.,

HoD/Mechatronics Engg.,

Kamaraj College of Engineering and Technology, Madurai.

Member

12. Dr. K.Geetha, M.Sc., Ph.D.,

ASP/BT &HoD/First Year Engineering,

Kamaraj College of Engineering and Technology, Madurai.

Member

13. Dr. N.Pratheeba, M.Sc., M.Phil., Ph.D.,

HoD/English,

Kamaraj College of Engineering and Technology, Madurai.

Member

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CHAIRMAN

14. Dr. T.Dhanalakshmi, M.Sc., M.Phil., Ph.D.,

HoD/Chemistry,

Kamaraj College of Engineering and Technology, Madurai.

Member

15. Dr. A. Yelil Arasi, M.Sc., M. Phil., Ph.D.,

HoD/Physics,

Kamaraj College of Engineering and Technology, Madurai.

Member

16. Dr. K. Thanalakshmi, M.Sc., M.Phil., Ph.D.,

HoD/Maths.

Kamaraj College of Engineering and Technology, Madurai.

Member

17. Prof. C.T.Vijayakumar, M.Sc., Ph.D., Ph.D.,

Prof./PT & Dean (Research),

Kamaraj College of Engineering and Technology, Madurai.

Member - Teacher of the College

18. Dr. M.Hema, M.Sc., M.Phil., Ph.D.,

ASP/Physics,

Kamaraj College of Engineering and Technology, Madurai.

Member - Teacher of the College

19. Dr. E. Vakaimalar, M.E., Ph.D.,

Asst. Prof. /Information Technology,

Kamaraj College of Engineering and Technology, Madurai.

Member - Teacher of the College

20. Dr. P.Kathirvel, M.E., Ph.D.,

Prof./Civil Engineering,

Kamaraj College of Engineering and Technology, Madurai.

Member - Teacher of the College

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 Er. A.N.Lakshmanan, B.E., General Manager –R&D, TVS Tyres, Madurai.
 Expert Member - GB Nominee

22. Dr. S.A.Sannasiraj, M.E., Ph.D., Professor, Department of Ocean Engineering, Indian Institute of Technology, Madras. Expert Member - GB Nominee

23. Dr. G.Arthanareeswaran, M.Tech., Ph.D., Professor/Department of Chemical Engineering, National Institute of Technology, Tiruchirappali.. Expert Member - GB Nominee

24. Prof. N.C.Shivaprakash, M.Sc., Ph.D., Department of Instrumentation, Indian Institute of Science, Bangalore. Expert Member - GB Nominee

25. Dr. N.AmmasaiGounden, M.E., Ph.D., Professor HAG, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappali. Expert Member –AU Nominee

Prof. S.Ramakrishnan, M.E., Ph.D.,
 Professor & Head, Department of Applied Mechanics,
 Indian Institute of Technology, Madras
 Expert Member –AU Nominee

27. Dr. HemaGopal, Ph.D., IT Strategist and Advisor, Former, Tata Consultancy Services, Chennai Expert Member –AU Nominee

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Item no.	Agenda items	Points discussed / resolution
001.01.00	Welcome address	The meeting started in online mode in Google meet platform at 02.30 pm. Principal gave a warm cordial welcome to all the members of the Academic Council.
001.02.00	Overview of the institution	Principal gave a brief presentation about the institution and its accomplishments. Members appreciated for a nice presentation briefing about the institution.

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001.03.00	Submission of proceedings of the 1st Governing Body (GB) meeting held on 6th march 2020	Dr. M.Vasanthi, Dean (Academic Courses) discussed on the minutes of 1stGoverning Body (GB) meeting held on 6th March 2020. It was informed that the following expert members were nominated by GB for Academic Council 1. Er. A.N.Lakshmanan, General Manager, R & D TVS Tyres, Madurai 2. Dr. S.A.Sannasi Raj, Professor, Ocean Department, IIT, Madras 3. Dr. G. Arthanareeswaran, Professor, Professor/Department of Chemical Engineering, NIT, Trichy. 4. Prof. N.C.Shivaprakash, Department of Instrumentation and Applied Physics Indian Institute of Science, Bangalore. The suggestions and recommendations given by GB on the curriculum framework in proposed R2020 Regulations, credit range for UG/PG programme, inclusion of two electives in 8th semester for UG, relative grading system, over and above additional credits for bright students, etc were highlighted.
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001.04.00	Approval for Academic Council nominees for board of studies	HoDs of concerned department presented the proposed list of BoS members and the committee has recommended two experts from the list proposed for each department. The list of members suggested by the committee for each department follows herein.

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CHAII	RMAN	
001.04.01	First year Board of Studies	1. Dr. R. Karvembu Professor, Department of Chemistry National Institute of Technology Trichy-620 015. 2. Dr. S. Murugesan, Professor & Head, Department of Inorganic chemistry School of Chemistry Madurai Kamaraj University, Madurai. Department of English 1. Dr. SathyarajVenkatesan, Associate Professor, Department of English, National institute of Technology, Tiruchirappalli 2. Dr. G.Baskaran, Professor, School of English and Foreign languages, The Gandhigram rural institute (Deemed to be university), Gandhigram. Department of Mathematics 1. Dr.R.Asokan, Professor, Department of Mathematics, Madurai Kamaraj University Madurai. 2. Dr. V. LakshmanaGomathiNayagam, Associate Professor, Department of Mathematics, National Institute of Technology, Tiruchirappalli - 620 015. Department of Physics 1. Dr.J.Hemalatha, Professor& Head, National Institute of Technology, Tiruchirappalli. 2. Dr.K.Jayakumar, Professor, Dept. of Physics, Gandhigram Rural Institute-Deemed to be University

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Item no.	Agenda items	Points discussed / resolution
001.04.02	Board of Computer science and Engineering	 Dr. R.B.V.Subramaanyan, Professor and Head, Department of Computer Science and Engineering, National Institute of Technology, Warangal. Dr. SabuM.Thampi, Professor, School of CS/IT, Center for Research and Innovation in Cyber Threat Resilience (CRICTR), Indian Institute of Information Technology &Management- Kerala, Trivandram.
001.04.03	Board of Electronics and Communication Engineering	 Dr. D.Sriram Kumar, Professor, ECE, National Institute of Technology, Tiruchirappalli - 620 015. Dr. A.Amalin Prince, Associate Professor, Department of Electrical and Electronics Engineering, BITS Pilani, K.K.Birla Goa Campus, Zuarinagar, Goa-403726.
001.04.04	Board of Electronics and Instrumentation Engineering	 Dr. G. Uma, Professor, Department of Instrumentation & Control Engineering, National Institute of Technology, Trichy. Dr. P. Ramesh Babu, Professor &HoD, Department of EIE, Pondicherry Engineering College, Pondicherry.

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Item no.	Agenda items	Points discussed / resolution
001.04.05	Board of Polymer Technology	 Dr.S.N. Jaisankar Sr. Principal Scientist, Polymer Science & Technology CSIR- Central Leather Research Institute Adyar, Chennai – 600 020. Dr. Siddaramaiah Professor & Head, Department of Polymer Science and Technology Sri JayachamarajendraCollege of Engineering, Mysuru— 570 006. Karnataka.
001.04.06	Board of Information Technology	 Dr.A.Kandasamy Professor, Department of Mathematical and computational Sciences, NITK, Suratkal. Dr. R. Rajesh Associate Professor & Head, Department of Computer Science and Engineering, Central University of Kerala, Kasaragod, Kerala.
001.04.07	Board of Biotechnology	 Dr.A. Santhiagu, Professor, School of Biotechnology, NIT Calicut, Kerala- 673601. Dr.NAyyadurai, Senior Scientist, Biochemistry & Biotechnology, CSIR- Central Leather Research Institute Adyar, Chennai – 600 020.

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Item no.	Agenda items	Points discussed / resolution
001.04.08	Board of Electrical and Electronics Engineering	 Dr. SishajP Simon Associate Professor Department of Electrical and Electronics Engineering, National Institute of Technology, Trichy. Dr. S. Jeevananthan Professor Department of Electrical and Electronics Engineering, Pondicherry Engineering College, Pondicherry,
001.04.09	Board of Mechanical Engineering	 Dr. V. Anandha Krishnan, Associated Professor, Department of Production Engineering National Institute of Technology Tiruchirappalli– 620015. Dr. S.C. Vettivel, Associate Professor Department of Mechanical Engineering Chandigarh College of Engineering and Technology (Degree wing) Chandigarh 160019.
001.04.10	Board of Civil Engineering	 Dr. S. Jayalekshmi, Professor, Department of Civil Engineering, NIT Trichy. Dr G. Janardhanan, Associate Professor, Center for Environmental Management NITTTR, Chennai.

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Item no.	Agenda items	Points discussed / resolution
001.04.11	Board of Mechatronics Engineering	 Dr. T. Asokan, Professor & Head, Department of Engineering Design, Indian Institute of Technology Madras, Chennai – 600036. Dr. N. Selvaraj, Professor, Department of Mechanical Engineering, National Institute of Technology Warangal.
001.05.00	Proposed regulations R2020	

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001.05.01	To consider and approve the proposed R2020 regulations for UG programme	3.	Online courses: Could be made mandatory to students as part of the curriculum. Efforts should be taken by the institution to promote online mode of learning. Audit courses: Members accepted the proposal made to make audit courses mandatory for all programs. Dr. Hema Gopal suggested inclusion of liberal arts and ethics for engineers as course modules under the courses list to be prepared for audit courses. EEC courses: To add more value to the Employability Enhancement Courses (EEC), the courses should be aligned to the current industrial practices and current technologies and should be predominantly designed in such a way that the courses should be handled by industry personnel. Courses offered under such a mode could be permitted for over and above credits which would not reflect or get included in the CGPA calculation. Over and above credit for industry training and internship may not be appropriate as it is mandatory for engineering graduates to undergo training at the industry as implant training or internship. Further owing to the pandemic like situation, it may be difficult for students to get opportunity for internship and industry training. It was recommended to have simulated industry projects by making students work on problem statements given

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out by industries. This could then be
evaluated by 2 members (one internal guide
and one person from the industry) and this
could be included in the curriculum vitae of
the student rather than mentioning it in the
transcript or mark statement.

- 5. Prof.Ramakrishnan emphasized that more weightage could be given for Basic Sciences and Engineering Sciences so that it will help the student to learn more about the basic concepts
- 6. Members recommended that during the 6th and 7th semesters institution should try and adopt a process whereby one or two units of each course could be taught by industry personnel.
- 7. Character development courses like the one recommended in AU 2017 ((NSS, NSO, NCC, YRC) could be offered as mandatory non credit courses and the new clause included under this section that at extraordinary situations, student could be permitted to complete these mandatory training by the second year with prior approval.
- 8. Prof. Ramakrishnan and Prof. Arthanareeswarn suggested that the term Open elective for courses to be done by the student outside the parent department could be referred as free elective. However it was

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finally accepted that the term open elective would be followed as of now.

9. Credit range: Detailed discussion was held on this topic. Prof. N.C Shivaprakash felt that the current credits for individual programs is very high and the proposed credit of 180 is very high for under graduate program. Prof. Sannasiraj opined that the credit could be fixed as 165 and an additional credit of 3 could be allowed as maximum. Prof. Ammasi Gounden recommended that the credit for all programs could be fixed as 165. External members opined that on an average 20 to 21 credit per semester would add up to 160 – 165 credits and finally it was agreed that the credit could be given in the range of 165 -170 and the credits should not exceed more than 170 in any case.

10.

external academic experts of the Academic council approved and recommended that in the Final semester end semester Project online and one course (related to the project work) could be offered. Some members felt

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		that the project credits could be increased. Prof. Ammasi Gounden emphasized that increasing the credits for the UG programme end semester project should be
	e e	discussed in detail. He also stated that since the UG programme end semester project is
2	3	a group project, allocating too many credits could affect the credentiality of the project and the associated
se ^t		outcome employability enhancement quotient. He also opined that credit range of 6-8 could

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	hasized that
problem statements given	
could be given to all the	
project work. It would	stimulate the
interest of the students an	d they would
come up with different sol	utions for the
same problem. This could	be conducted

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similar to Hackathon and industry expert could evaluate the solutions provided by students. Project related: If students do projects in industry, evaluation sheets could be sent to industries. 12. Prof. N.C. Shivaprakash informed that 1 hour tutorial should be given 1 credit as it calls for more efforts from the teachers and making it 2 hours for 1 credit would add more burden on the faculty member. 13. Students acquired more credits than required to be included in the transcript. 14. The weightage for internal or continuous assessment and end semester examination was decided as follows. S. No. Category of Course Internal External 1. Theory 40 60 2. Practical 50 50 3. Project 60 40 14. It was recommended by the external experts that the average of three tests or best of two tests could be taken for the calculation of the continuous assessment. Dr. Hema Gopal suggested any methodology adopted should be uniform for the UG and PG programs and the entire institution should follow the same procedure and norms. 15. Passing criteria should be fixed as 50 % marks and there should not be any	CHAI	RMAN	
marks and there should not be any	CHAIL		could evaluate the solutions provided by students. Project related: If students do projects in industry, evaluation sheets could be sent to industries. 12. Prof. N.C. Shivaprakash informed that 1 hour tutorial should be given 1 credit as it calls for more efforts from the teachers and making it 2 hours for 1 credit would add more burden on the faculty member. 13. Students acquired more credits than required to be included in the transcript. 14. The weightage for internal or continuous assessment and end semester examination was decided as follows. S. No. Category of Course Internal External 1. Theory 40 60 2. Practical 50 50 3. Project 60 40 14. It was recommended by the external experts that the average of three tests or best of two tests could be taken for the calculation of the continuous assessment. Dr. Hema Gopal suggested any methodology adopted should be uniform for the UG and PG programs and the entire institution should follow the same procedure and norms.
restrictions as minimum percentage as			marks and there should not be any

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qualifying	marks	for	internal	conti	nuous
assessment	and er	nd se	emester e	xamin	ation.
Prof. San	nasiraj	emp	hasized	that	such
clauses wo	uld put	press	ure on st	udents	

- 16. Prof. Sannasiraj and Prof. Ramakrishnan emphasized that apart from pen and paper based mode of assessment as part of continuous assessment schemes, other assessment tools like seminar, assignment, problem solving exercises, model making should also be practiced to make assessment more effective and to promote higher order thinking skills.
- 17. Assigning of Grades for courses after end semester examination. Governing body's recommendation was presented to the academic council. After detailed discussions on the proposed model and mechanism for deciding the grades for each semester, it was recommended by the council members that the model proposed could not be termed in strict sense as relative grading system. Members opined that the method proposed appeared to be a hybrid of relative grading and normal grading. The proposal of Fixing O or Outstanding grade to marks between 91 to 100 and 50 to 60 as B grade, less than 50 to be considered as Reappear and fixing of remaining grades based on the class average semester wise could be tried as per the proposal. However members also expressed

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CHAIRMA	TV
	that great care should be taken while adopting such reforms. 18. Inclusion of detailed clauses for Faculty advisor, roles and responsibilities, performance analysis committee, rules for reappearance and redo of courses /semester were gone through and it was recommended by the members to be part of the regulation document.
1.00	

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The proposed PG regulation was presented and the changes brought in over the AU R2017 was highlighted. Detailed discussion was held on the changes sought in the proposed PG KCET R2020 1. External experts in the academic council emphasized that Open Electives to be offered for the PG programmes should focus on Industry Certification courses that could promote multidisciplinary research 2. Audit Course may be recommended as mandatory course for the student in all programmes. However it should not be	CITIII	UMAIV	
To consider and approve the proposed R2020 regulations for PG programme followed rigidly as the time frame available for the PG student for the course is only two years. Members accepted the recommendation of allowing 3 credits in the curriculum for Online course however members did not recommend Waiver from doing one open elective by earning 3 credits through value added program. Further offering Over and above credits for value added courses, industry internship was not recommended for PG program. The external members of the council opined that PG program students are expected to hone their skills during their project and should not waste time in working for additional credits. PG students should be		To consider and approve the proposed R2020 regulations	highlighted. Detailed discussion was held on the changes sought in the proposed PG KCET R2020 1. External experts in the academic council emphasized that Open Electives to be offered for the PG programmes should focus on Industry Certification courses that could promote multidisciplinary research 2. Audit Course may be recommended as mandatory course for the student in all programmes. However it should not be followed rigidly as the time frame available for the PG student for the course is only two years. Members accepted the recommendation of allowing 3 credits in the curriculum for Online course however members did not recommend Waiver from doing one open elective by earning 3 credits through value added program. Further offering Over and above credits for value added courses, industry internship was not recommended for PG program. The external members of the council opined that PG program students are expected to hone their skills during their project and should not waste time in working for

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motivated to do their project work in
industry /research institutes and this
would give them more exposure on latest
technologies. Dr. Hema Gopal opined
that for PG programmes, if students do
online courses they could be given
waiver from doing open elective
courses and not for professional
electives.
For the PG curriculum the Credit range
could be fixed between $70 - 75$.
The weightage for internal or continuous
assessment and end semester
examination was decided as follows.

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No. Category of Course Internal External

1. Theory 40 60

2. Practical 50 50

3. Project 60 40

5. It was recommended by the external experts that the average of three tests or best of two tests could be taken for the calculation of the continuous assessment. But any methodology adopted should be uniform for the UG and PG programs and the entire

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institution	should	follow	the	same
procedure a	ind norm	s.		
It was sugg	ested by	the men	nbers	that it

- It was suggested by the members that it should be made mandatory that PG student should present their project findings in conference /Journal publication for becoming eligible for the degree.
- 7. Assigning of Grades for courses after end semester examination. Governing body's recommendation was presented to the academic council. After detailed discussions on the proposed model and mechanism for deciding the grades for each semester, it was recommended by the council members that the model proposed could not be termed in strict sense as relative grading system. Members opined that the method proposed appeared to be a hybrid of relative grading and normal grading. The proposal of Fixing O or Outstanding grade to marks between 91 to 100 and 50 to 60 as B grade, less than 50 to be considered as Reappear and fixing of remaining grades based on the class average semester wise could be tried as per the proposal. However members also expressed that great care should be taken while adopting such reforms.

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	8. Passing criteria should be fixed as 50 % marks and there should not be any restrictions as minimum percentage as qualifying marks for internal continuous assessment and end semester examination. Prof. Sannasiraj emphasized that such clauses would put pressure on students.
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CITIII	Idvaly	
001.05.03	To consider and approve the proposed first year curriculum and syllabi for all UG programmes	 The first year curriculum was presented by Dr.M. Vasanthi, The members opined that 25 credits for first and second semester are on the higher side and may be difficult for the students coming from the school level. Engineering Graphics could be offered in the second semester. All the external members recommended that the credits for the first year could be fixed as 40 or 42 credits. The external members also recommended to have the AICTE model curriculum and AU 2019 First year curriculum as the base upon which KCET curriculum could be developed. Dr. HemaGopal suggested instead of offering C programming for AI, CSE, IT and python for other UG programmes, A common course called Fundamentals of Programming could be framed incorporating the basic aspects of programming and basics of C or C++. Dr. N.C. Shivaprakash suggested that the common board of studies meeting encompassing all the first year departments (Maths, Physics, Chemistry and English) could be conducted. The members also authorized chairman of the Academic Council Dr. Anant

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Achary to nominate two or three Alumni
into the first year BOS.

- 3. The members opined that the proposed one credit value added programme on "Engineering Skill Development" for the first year students may not be appropriate during the first year and it could be offered in higher semesters.
- Members suggested that guidelines should be framed before the first year board of studies meeting and should be disseminated for effective curriculum planning.
- 5. Dr. Hema Gopal suggested that for the first year students to be admitted during this academic year 2020-2021, during the first semester for the basic sciences laboratory, the contact periods could be 2 hours and credit allotted could be one. She requested that the experiments could be video recorder in the laboratory by the teachers sent to the students and the students could be assessed through viva voce questions and through calculation based exercises. She was of the view point that at least for this batch of students this change is necessitated and it would be fair

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	enough to reduce the credit when the students will not be actually doing it. The chairman suggested that this should be discussed in first year board of studies and arrived at a decision. Guidelines for Syllabus framing 1. Overall Credit for first year should be 40 -42 credits 2. Technical English could be given 3 credits 3. Engineering graphics could be offered in the second semester 4. Program specific papers could be offered in the second semester 5. First Semester courses should be common for all the programs 6. AICTE model curriculum and AU 2019 curriculum could be taken as base curriculum.

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Item no. Agenda items			
rtem no.	Agenda items	Points discussed / resolution	
001.04.00	Administrative activities		
001.06.01	To inform the academic council about the appointment of Dean (Academic Courses)	Dr. M. Vasanthi is appointed as Dean (Academic Courses) and will take care of all academic related activities	
001.06.02	To inform the academic council about the Appointment of Dean (Research)	Dr. C.T.Vijayakumar is appointed as Dean (Research) and will take care of all research related activities	
001.06.03	To inform the academic council about the appointment of Dean (Examinations)	Dr. S.Kalyani is appointed as Dean (Examinations) and will take care of all examination related activities	
001.07.00	Any other item with the approval of chairman		
001.07.01	To fix the date for the second meeting of academic council		

With a formal thanks note by the Member Secretary, the meeting came to an end.

(Dr. ANANT ACHARY)

Chairman

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(Dr. M.VASANTHI) Member Secretary

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