Minutes of Academic Council Meeting

held on 18ᵗʰ March, 2017

The fourth meeting of Academic Council was held on 18/03/2017 at 11 am in meeting hall of Government College of Engineering, Karad. Following Members were present for the meeting:

1.	Chairman	: Prof. (Dr) P. M. Khodke
2.	Member	: Prof. (Dr) S. B. Nair, IIT, Guwahati
3.	Member	: Prof. (Dr) D. M. Dewaikar, IIT, Bombay
4.	Member	: Prof. (Dr) Vasant Matsagar, IIT, Delhi
5.	Member	: Prof. (Dr) B. N. Choudhari, COE, Pune
6.	Member	: Prof. (Dr) M. S. Sutawane, COEP, Pune
7.	Member	: Mr. Ravindra Soman, Pune
8.	Member	: Mr. H. T. Mendhegiri, Pune
9.	Member	: Prof. (Dr) V. R. Ghorpade, Kolhapur
10.	Member	: Prof. (Dr) S. S. Patil, Satara
11.	Member	: Prof. (Dr) S. H. Sawant, Jaysingpur
12.	Member	: Prof. (Dr) Y. M. Ghugal, Head Applied Mechanics
13.	Member	: Prof. V. B. Waghmare, Head, Electrical Engg.
14.	Member	: Prof.(Dr) S. S. Valunjkar, Head, Civil Engg
15.	Member	: Prof. (Dr) S. S. Mohite, Head Mechanical Engg.
16.	Member	: Prof. A. B. Patil, Head, Electronics and Telecommunication
17.	Member	: Prof. P. C. Shetiye, Head, MCA
18.	Member	: Prof. (Dr) S. J. Wagh, Head, IT
19.	Member	: Prof.(Dr) Vishwambhar Patil, Head, Mathematics
20.	Member	: Prof. (Dr) P. M. Joshi, Member
21.	Member	: Prof.(Dr) S. K. Hirde, Member
22.	Member	: Prof.(Dr) R. B. Kulkarni, Member
23.	Member	: Prof.(Dr) M. N. Hedaoo, Member
24.	Member	: Prof. (Dr) U. V. Patil, Member
25.	Member	: Prof. (Dr) A. T. Pise, Member
26.	Member	: Prof. V. S. Jadhav, Member
27.	Member	: Prof. U. L. Deshpande, Member
28.	Member	: Prof. A. A. Bhondwe, Member
29.	Member Secretary	: Mr. S. H. Pawar

The leave of absence was granted to Prof. (Dr) S. V. Kulkarni, Shri. Pandurang Shinde, Prof (Dr) H.A. Mangalvedhekar, Prof. (Dr) R.N. Awale, Mr. S. V. Gadgil, Mr. Ravindra Sinare.

Member Secretary welcomed all members of Academic Council and requested Hon. Chairman Dr P. M. Khodke to offer his opening remarks. Hon. Chairman, in his opening

remarks informed the house about the need of revision in curriculum structure of U.G. and MCA programs. He also informed the house that, while implementing the revised curriculum during last two years for autonomous batch, the feedback was received from the stake holders, which suggested few changes in curriculum contents through their BoS in first and second year B.Tech and M.Tech programs. Hon. Chairman suggested need of 'Equivalence' in UG courses for students entering from University to Autonomous scheme. He further stressed on use of 'Choice Based Credit System'. Dr P. M. Khodke further made the house aware about achievement of the institute in accreditation and informed that this institute is the only second institute in State obtaining accreditation for all UG and PG programs.

With the permission of Hon. Chairman, Member Secretary started with the agenda.

Item No. 4.1

To confirm the minutes of 3rd Academic Council Meeting

The house confirmed the minutes of 3rd Academic Council Meeting.

Item No. 4.2

To report actions taken on the minutes of 3rd Academic Council Meeting held on 21st June 2016

Member Secretary has requested to withdraw the item as there is no action to be taken on the minutes of 3rd Academic Council Meeting held on 21st June 2016.

Item No 4.3

To discuss and approve revision in curriculum structure of U.G. programs

Member Secretary presented revision in curriculum structure of U.G. programs. Following suggestions were offered by the members on revision in curriculum the structure.

General suggestions:

- Instead of course name e.g. like P.S.-I, P.S.-II, write suitable title for the course as per the course contents in all programs and courses.
- Every Program head should check the course titles. Particularly, there appears to be wrong use of singular and plurals. For example, instead of "Control System" write "Control Systems".
- Try to incorporate courses like Project Management, Financial Management in the curriculum as per NBA, wherever possible.
- The word Advance should be replaced by "Advanced"

Program Specific Suggestions:

B.Tech Civil

Course code	Page No.	Suggestions
CE504	4	Title of course should be 'Water Supply Engineering'
CE603	4	Title of course should be 'Water Resources Engineering'
CE605	4	Title of course should be 'Wastewater Engineering and Pollution'
CE 503	5	Present title of course 'Structural Mechanics- I' should be 'Analysis of Determinate Structures'
CE 602	6	Present title of course 'Structural Mechanics- II' should be 'Analysis of Indeterminate Structures'
CE607	6	Present title of the course 'Structural Design & Drawing – I' should be 'Design & Drawing of Steel Structures'
CE608	6	Title of course may be changed in accordance with theory course.
CE508	10	Title of course should be 'Computer Aided Drawing Lab'
CE707	12	Title of course should be 'Design of Concrete Structures Lab'.
CE872	14	Title of course should be 'Bridge Engineering'
In Structure for Electives	14	~~Watershed Management~~ '**Watershed Development and Management**, Hydro-Power Engineering, Water Management' courses should be added as Elective Remove obsolete Electives.
CE875	14	Title of course should be 'Pre-Stressed Concrete Design'
CE855	14	Change the title to "Legal Aspects in Civil Engineering"

B.Tech Electronics & Telecommunication

Course code	Page No.	Suggestions
EX 410	16	Transducers and Measurements [TAM] (Proposed) to be retained in semester-III only
EX309	19	Title should be "Embedded C Lab"
Structure	20	Swapping of Sem-III and Sem-IV courses.
	21	Either courses or contents to be added so as to take care of graduate attributes as per NBA.
EX303 & EX304	24	Being these courses at the same semester, it may be difficult for the students to understand 'Microcontroller and Interfacing' without learning 'Digital Electronics'. The department may think appropriately.
--	24	Microprocessor course may be kept in Sem- IV

B.Tech Information Technology

Course code	Page No.	Suggestions
IT301 & IT309	38	Two Mathematics courses in same semester accounting 9 credits will burden the students, especially lateral entry. Possibility of swapping with some course in semester- IV be explored.
IT505	32	Microprocessor & Microcontroller course should not be replaced by IOT. Being core course, it is needed for understanding fundamentals. Either IOT be kept as elective or contents of Microprocessor and Microcontroller be included in appropriate course.
IT 603	41	Title should be "Computer Algorithms"
IT 706	42	Title of Human computer interface should be "Information Retrieval" and may be shifted to Elective, if possible.

Item No 4.4

To discuss and approve revision in curriculum structure of MCA program

Course code	Page No.	Suggestions
MC101 & MC102	52	Two courses 'Digital Electronics & Microprocessors' and 'Computer Organisation and Architecture' may constitute heavy burden on students. Swap with MC101 & MC202. Department may think appropriately.
MC104	52	Title should be "Data Structures and Algorithms"
	54	The word Advance should be replaced by "Advanced"
--	56	Total contact hours per week 34 are exhaustive. Reduce it to 30 either by transferring some course to Elective or by reducing practical hours of MC505 and MC506.

With above suggestions the house approved revision in curriculum structure of MCA program.

Item No 4.5

To discuss and approve revision in curriculum contents (Syllabus) of first & second year B. Tech and M. Tech. programs

Member Secretary presented revised curriculum structure of B.Tech. and MCA programs to the house. Members suggested to make changes as per item no. 4.4 above, and make the curriculum contents accordingly. Also, House suggested following changes

Course code	Page No.	Suggestions
FE111, ME409, CE304, SE101, SE204	60-87	Plural and Singular to be corrected in all contents. Concerned Chairman BoS (First year Coordinator, Mechanical and Civil) should verify the same.

With above suggestions the house approved revision in curriculum contents (Syllabus) of first & second year B. Tech and M. Tech. programs.

Item No 4.6

To discuss and approve third year curriculum contents for all B. Tech programs and MCA

Member Secretary presented the curriculum contents for third year courses of all B.Tech. programs to the house. House gave following suggestions:

Suggestions common to all programs:
1. The standard formats with respect to the titles be followed including course name, program name, year and semester.
2. Course objectives and course outcomes should be revisited and corrected accordingly.
3. Entire document should be processed for spell check and all spelling mistakes should be corrected. It should be done centrally in Dean Office.
4. The questions in course contents like 'What, Why' etc. shall be avoided.
5. Dean Academic shall check template again for uniformity.

B.Tech. Civil Engineering

Course Code	Page No	Suggestion
CE501	3	Formatting of Unit II and III. The word beam in Unit V not proper.

CE 503	9	Unit-IV change starting of the Unit by "Slope and deflection method for...." Unit-VI A- change "M.I." to "~~flexible rigidity~~ **flexural rigidity**" and shift it to CE 602 Unit-IV
CE 505	15	Unit-I "flood routing and flood forecasting" shift it in Unit-V
CE 507	20	Exp-2 instead of "....planned in 1" correct it to "....planned in residential building"
CE 508	22	Exp-3 Sr No misprinted as 6,7 Exp-5 instead of "...civil engineer.." correct it to "...Civil Engineering.."
HS 003	24	Unit-wise and total number of contact hours (60) is higher. However, they appeared to be taken together for lecture and practical. Reduce total number to 50 and mention how much for theory and practical separately. for ex. Unit I has 12 hours, mention it as 6+6. **The corrections shall be made centrally by Dean Academics.** Add relevant Text books.
CE 602	30	Add from Unit-VI (A) of CE 503, remove "Kani's method..." from Unit-IV in CE602.
CE 603	33	Unit-I: Instead of 'Definition' use 'Terminology', -Remove 'ill effects of irrigation' - Add micro-irrigation - Add 'modified penman method' instead of 'penman method' Unit II- Add '~~rock dams~~' **'rockfill dams,'** ~~storage space~~, **'storage space allocations'** 'instrumentation area capacity' Unit III- ~~Rigid~~ Concrete Dams -Shift introductory part in Unit II - shift 'Sudden drawdown of earthen dams' to Unit IV Unit IV- change title 'Earth and ~~Rock filled~~ **rockfill**' Dams'
CE604	36	Add in beginning of course contents 'transportation material transportation planning'. Spelling mistake for Harbouring in Unit- I and CO 1 and 2
CE606	42	- Select appropriate title of course by removing II. - Add 'Bishop's method of stroke' - Unit III & IV may be combined
CE607	44	- Mention "using any drafting software "in CO 2 Everywhere mention name of software uniformly.

B.Tech. Mechanical Engineering

Course Code	Course	Unit No.	Suggestions By Mr. Soman
ME 504	Machine Design - I	I -B	Stressed the need for covering following aspects with practical example: Alloying elements and effects thereof on material to make it suitable for given application
ME 505	Manufacturing Engineering	-	Texture of surface finish in different applications and distinction between $\mu R_a, \mu R_t, \mu R_z$
ME 510	CAD/CAM Lab	VI	Include controllers FANUC, SIMENS and Allen Bradley
ME 603	Metrology and Quality Control	V	Include ISO/TS 16949
		VI	Include the concept of failure modes and effects analysis (FMEA)
ME 604	IC Engines	VI	CNG engine may be taught
ME 605	Machine Design II	V	Include failure modes and its relation to material selection and occurrence in manufacturing

B.Tech. Electrical Engineering

Course Code	Page No	Suggestion
EE501	123	Use standard format for title. Sem.V should be removed.
EE503	127	Unit-VI may be removed & shift it to EE 604 as Unit-I. Title of the course to be revised.
EE504	129	Title of the course to be revised.
EE505	131	It can be considered as one of the open electives.
OE 631	142	Add 'Earthing & Grounding' and 'Lightning Arresters'.
EE602	145	Title Optimization Techniques.
EE604	150	Unit I may be removed & shift it to EE503 as Unit-VI
EE608	158	Exp7, 8, 9 – Objectives of the visits should be precisely defined.

B.Tech. Information Technology

Course Code	Page No	Suggestion
IT502	167	Contents may be heavy for the students
IT505	176	Can be introduced as Elective subject, instead, Microprocessor and Microcontrollers can be introduced as compulsory subject Unit V needs major revision.

IT506	179	Few experiments can be added on wireless networks.
IT602	191	Title should be Data warehousing and mining.
IT603	194	Title should be Computer Algorithms.
IT605	202	Unit V should be matched with elective, IT734.
IT606	204	Title should be Data warehousing and mining lab.

B.Tech. Electronics and Telecommunication

Course Code	Page No	Suggestion
EX504	223	Title should be control systems.
EX504	225	Assessment pattern should show something under "create"
EX505	226 227 228	-Few may be called Assignment and few Experiment - No need to name specifically ' LM565, LM386 - temp (use full form) - correct spelling MSOFET to MOSFET
EX508	234	Experiments 1 & 2 can be clubbed together Experiments 3 & 4 can be clubbed together Experiments 11 & 12 can be clubbed together
EX509	236	In title change 'And' to 'and'
EX609	278	Check course dependency chart. Due to changes in structure, chain of elective is disturbed. Relocate the same.

MCA

Course Code	Page No	Suggestion
MC502	290	Change title 'Network Technologies' to 'Mobile Technologies'
MC513	292	Change title 'Artificial Intelligence and Expert System' to 'Artificial Intelligence' -Unit VI- Change the title to "New trends in AI"
MC523	294	Change Title 'Multimedia System' to 'Multimedia Systems'
MC533	296	Unit I Don't use ' Why and What '

Common Suggestions:

- Provide 'prerequisites' for all courses in all programs.
- List of equipment should be provided wherever necessary.

With above suggestions the house approved third year curriculum contents for all B. Tech programs and MCA.

Item No 4.7
To discuss and approve equivalence for the courses in UG curriculum.

Member Secretary presented the curriculum equivalence for the courses of UG program to the house. Hon. Chairman explained the purpose of giving equivalence. When the student from university scheme is absorbed in autonomous mode at final year level, he has to complete few audit courses which he has not studied in university scheme. The purpose is just to pass on the information about recent trends. He further informed house that it has been preferred to offer Laboratory courses as far as possible.

The house approved equivalence for the courses in UG curriculum.

Item No 4.8
To note Directions issued by Hon. Chairman, Academic Council

Member Secretary presented Directions issued by Hon. Chairman, Academic Council. During discussion, Dr. Prof. Hirde pointed out corrections in Direction-01/2016. Accordingly, Chairman Dr. P. M. Khodke asked Dean Academics to check complete document and make corrections accordingly.

With above suggestions, the house approved Directions issued by Hon. Chairman, Academic Council.

Item No 4.9
To note student's performance in the examinations for summer and winter 2016

Member Secretary presented the performance of the students in examination during summer and winter 2016.

1. The members expressed concern on the results in few subjects like FE101 Engineering Mathematics, FE205 Engineering Mechanics, PS101 Advanced Engineering mathematics PE101 Advanced Materials and manufacturing, MC 105 Software Engineering, EX 301 Engineering Mathematics-III etc. Further analysis of such a poor result is essential to understand whether the course contents are heavy or Course coordinator has to change teaching style or else. Hon. Chairman instructed Controller of Examination to invite explanations and comments from course coordinators of the subjects where the result is less than 80%. The comments should include reasons for less results and remedial action proposed.

2. The House suggested that average CGPA of all semesters & all subjects shall be included in the result analysis as per requirement of NBA (Performance Index- PI & Success Index-SI).

With above suggestions house noted students performance in the examinations for summer and winter 2016.

Item No 4.10
To note accreditation status of different UG and PG programs

The house noted accreditation status of different UG and PG programs with due appreciation of efforts of faculty and staff.

Item No 4.11
To note report submitted by Dean Industry Institute Interaction on training, placement and industry interaction for AY 2016-17

The house noted the report submitted by Dean Industry Institute Interaction on training, placement and industry interaction for AY 2016-17.

Item No 4.12
To note extracurricular and co-curricular activities for AY 2016-17

The house noted extracurricular and co-curricular activities for AY 2016-17.

Item No 4.13
To note Training activities for faculty and staff for AY 2015-16 and 2016-17

The house noted Training activities for faculty and staff for AY 2015-16 and 2016-17.

Item No 4.14
To note performance of the institute in TEQIP- II

The house noted performance of the institute in TEQIP- II and congratulated the institute for getting selected in TEQIP-III.

Item No 4.15
To note report on NSS/ CSP audit course

The house noted report on NSS/ CSP audit course.

Item No 4.16
To discuss and approve Academic Calendar for AY 2017-18

The house approved Academic Calendar for AY 2017-18.

Item No. 4.17
To discuss and approve procedure for Graduation ceremony

The house approved procedure for Graduation ceremony.

Item No. 4.18
To discuss and approve Rules and Regulations for Research and Consultancy

The house approved Rules and Regulations for Research and Consultancy.

Item No. 4.19
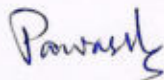### To discuss and approve Research Policy of the institute

Member Secretary presented Research Policy of the institute. Dean R&D, Dr. A. T. Pise explained various measures taken for participation of UG and PG students in research. House appreciated the initiative of providing financial support for UG and PG student's project work. The house suggested making policy document concise.

The house offered following suggestions on page No. 209:

1. Remove BOYSCAST scheme as it no longer exists.
2. Add 'Early carrier Grant scheme' by DST
3. Add ' DAE young Engineers scheme'
4. Add 'BRNS' scheme
5. Correct 'University of Pune' to 'Shivaji University, Kolhapur'
6. Add scheme from 'Ministry of Earth Sciences'
7. Add scheme ' Rajiv Gandhi Science & Technology Commission'

With above suggestions, the house approved Research policy of the institute.

As there was no item for discussion, meeting concluded with vote of thanks proposed by Mr. S. H. Pawar, Member Secretary.

Mr. S.H. Pawar
Member Secretary,

Prof. (Dr) P.M. Khodke
Chairman

Date: 06/04/2017
Place: Karad