VEL TECH HIGH TECH

Dr. RANGARAJAN Dr. SAKUNTHALA ENGINEERING COLLEGE

An Autonomous Institution

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai

2nd Academic Council Meeting – Minutes

Date : 03.05.22 **Time : 3.00 PM to 4.00 PM**

Google Online meet

https://meet.google.com/ans-iysj-cdh

VEL TECH HIGH TECH Dr. RANGARAJAN

Dr. SAKUNTHALA ENGINEERING COLLEGE

#60, Avadi – Vel Tech Road, Vel Nagar,

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MINUTES OF MEETING OF 2nd ACADEMIC COUNCIL MEETING

DATE: 03.05.2022 **TIME: 03.00 PM–04.00 PM**

The 2nd Academic Council meeting was virtually convened through Google meet platform on 03.05.22 from 3.00 PM to 4.00 PM to Scrutinize and approve the proposals with or without modification of the Boards of Studies with regard to courses of study, academic regulations, curricula, syllabi and evaluation methods under the Chairmanship of Dr.E.Kamanaban, Principal.

The following members were present during the Academic Council meeting.

S. No.	Name of the Expert	Affiliation with Designation	Role in AC
1	**Dr. E.Kamalanaban**	**Principal** Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College	**Chairman**
2	**Dr. J. Kumar**	**Professor & Director** UGC, BSR Faculty Research Fellow Crystal Growth Centre Anna University, Chennai	**Anna University Nominee**
3	**Dr. A. Rajadurai**	**Former Professor** Dept. of Production Technology MIT Campus, Chennai - 600044	**Anna University Nominee**
4	**Dr. K. Senthil Vadivu**	**Professor & Head** Dept. of Printing Technology CEG Campus, Anna University, Chennai - 600025	**Anna University Nominee**
5	**Mr. S.G. Balagurunathan**	**Director** WABCO Ltd, Chennai	**Industry Expert**
6	**Dr. G. Ananad**	**Deputy General Manager,** HEAD-PWT CAE Renault Nissan Technology & Business Center, India	**Industry Expert**
7	**Dr. A. Gnanamani**	**Head & Senior Principal Scientist** Microbiology Laboratory CSIR-Central Leather Research Institute, Adyar, Chennai	**Academic Expert**

8	**Dr. D.Nisar Ahmed**	**Director and Professor** MEASI Institute of Management, Chennai.	**Academic Expert**
9	**Prof. Dr. S. Govindasami**	**Controller of Examination**	**Member**
10	**Prof. Dr. D. Yuvaraj**	**Professor / Dept. of Biotech** **Dean – School of Bio Chemical Engineering**	**Member**
11	**Prof. Dr. P. Nagasankar**	**Professor / Dept. of Mechanical** **Dean – Science & Humanities**	**Member**
12	**Prof. Dr. R . Suresh**	**Professor / Dept. of Mechanical** **Dean – Training & Placement**	**Member**
13	**Prof. Dr. B. Bharathiraja**	**Professor / Dept. of Chemical** **Dean – Research & Development**	**Member**
14	**Prof.Dr. A. Suresh kumar**	**Head / Dept. of MBA** **Dean Industry Relations,**	**Member**
15	**Dr. A. Vishnu Kumar**	**Asst. Professor / Dept. of IT** **Deputy Dean** Technical Clubs	**Member**
16	**Dr. N. Gayathri**	**Assoc. Professor & Head / Dept. of mechanical** **Deputy Dean** Professional Societies	**Member**
17	**Dr. M. Malleshwari**	**Professor / Dept. of IT**	**Member**
18	**Dr. S. Durga Devi**	**Associate Professor & Head** Dept. of CSE	**Member**
19	**Dr. A. Saravana Raj**	**Asst. Professor / Dept. of Chemical** **Deputy Dean**	**Member**
20	**Dr. P. Vijayasarathi**	**Assoc. Professor / Dept. of Mechanical** **Deputy Dean IQAC**	**Member**
21	**Prof. Dr. V. R. Ravi**	**Professor / Dept. of ECE** **Dean Academics**	**Member Secretary**

The Agenda for the meeting

1. To approve –

   a) Curriculum for B.E. Computer Science and Engineering (Artificial Intelligence & Machine Learning) programme

   b) Syllabi of I & II semester courses of B.E. Computer Science and Engineering (Artificial Intelligence & Machine Learning) programme which is same as syllabi of I & II semester courses of B.E. Computer Science and Engineering

programme

c) Syllabi of II, III & IV semester courses of M.E. Structural Engineering programme.

2. To discuss any other matter pertaining to the Academic activities of the college

- The Member Secretary of the Academic Council Dr. V.R.Ravi, Dean Academics welcomed and introduced external members such as Anna university nominees, Academic Experts and Industrial Experts for the 2nd Academic Council meeting. The Member Secretary also taken the agenda items for discussion, rectification and approval.

- The Member Secretary invited Dr. M. Durgadevi, HoD of B.E Computer Science and Engineering and Dr. S. Govindasami, Professor, Department of Civil Engineering to present their Curriculum and Syllabi.

- Dr. M. Durgadevi, HoD of B.E Computer Science and Engineering presented Curriculum & Syllabi of I & II semester courses of B.E. Computer Science and Engineering (Artificial Intelligence & Machine Learning) programme. [Note : Syllabi of I & II semester courses of B.E. Computer Science and Engineering (Artificial Intelligence & Machine Learning) programme are same as Syllabi of I & II semester courses of B.E. Computer Science and Engineering which are already approved in the1st Academic Council Meeting held on 01.11.21]

- Dr. S. Govindasami, Professor, Department of Civil Engineering presented their syllabi of II, III & IV semester courses of M.E. Structural Engineering programme. [**Note** : The Curriculum and I semester courses are already approved in the 1st Academic Council Meeting held on 01.11.21]

- The members discussed and approved the Curriculum & Syllabi of I & II semester courses of B.E. Computer Science and Engineering (Artificial Intelligence & Machine Learning) programme and syllabi of II, III & IV semester courses of M.E., Structural Engineering programme.

POINTS DISCUSSED AND RESOLVED:

BUSINESS BROUGHT FORWARD BY THE BOARD OF STUDIES

	Agenda point	:	To consider and ratify the recommendations of Board of Studies of Computer Science and Engineering to implement the Curriculum for I semester to VIII semester, Syllabi for I & II semester courses and list of Professional Elective Courses (PEC) for B.E. degree Computer Science and Engineering (Artificial Intelligence & Machine Learning) programme as given in **Annexure – 1** (page no: 11 to 67)
1.3	**Suggestion from members and response**	:	*Members enquired about Faculty expert availability in the department to handle AI & ML related Courses* **Response:** Currently two subject experts are available in the department. Faculty members are advised to attend ATAL FDP, workshops, STTPs in the fields of Artificial Intelligence and Machine Learning. Faculty members are also advised to take courses at NPTEL and Coursera to become certified. *Members suggested to strengthen Mathematical Courses* **Response:** The required mathematical courses for Artificial Intelligence and Machine learning are given in the curriculum. The mathematical courses are • Matrices and Differential Calculus • Vector Calculus and Complex integration • Linear Algebra for Data science • Probability and Statistics courses *Is Business Intelligence, Cloud computing and Cyber Security courses are included in the curriculum?* **Response:** The following three courses are included in the professional Elective Courses: • Business Intelligence • Cloud Computing • Cyber Security and Forensics *Whether credits of Constitution of India & Environmental Science courses are added in the total credits?* **Response:** Constitution of India & Environmental Science courses

are mandatory courses (As per AICTE Model curriculum) which are zero credit courses.

Members suggested to Rename Environmental Sciences as Environmental Science

Response: It has been renamed as Environmental Science

Members enquired about Order or group for allocating Professional Elective courses in each semester

Response: There are 5 Professional Elective groups in the curriculum. Five courses are offered in each Professional Elective group and are listed as shown below.

GROUP1	GROUP2	GROUP3	GROUP4	GROUP5
• Data Warehousing and Data Mining • Digital Image Processing • Theory of Computation • Computer Architecture • Microcontroller and Embedded Systems	• Total Quality Management • Gaming Technology • Information Retrieval • Software Project Management • Wireless Adhoc and Sensor Networks	• Cloud Computing • Quantum AI • Artificial Intelligence of Things • Knowledge Engineering • Block Chain Technologies	• Agile Methodologies • Cyber Security and Forensics • Video Analytics • Reinforcement Learning • Business Intelligence	• Autonomous Systems and Drones • Applications of AI in Healthcare • AI for Natural Language Processing • Applications of AI in Medical Image Analysis • Robotics

Members enquired about the % of distribution of CSE courses and AI&ML courses

Response: The % of distribution of courses in B.E CSE (AI&ML) programme:

- % of CSE related courses = 60%
- % of AI&ML related courses = 40%

How project and project related courses in B.E degree CSE(AI&ML) programme are differ from B.E degree CSE programme.

Response: In B.E degree CSE programme, students will do projects in Cloud computing, cyber security, mobile applications, Web applications using C & C++, Java, Python, HTML etc. Whereas in *B.E degree CSE(AI&ML) programme, students will do projects in applications of Artificial intelligence, Machine learning and Deep learning in the field of* Cloud computing, cyber security, Web

			applications, Medical imaging, Agricultural, Autonomous systems, Drones, Healthcare etc., using Python, R programming, TensorFlow and MATLAB. *Most of the members agreed that curriculum is having good choice of core courses and professional elective courses. The proposed curriculum is appropriate and the same was appreciated by members.*
	Resolution/ Approval	:	Resolved to approve and ratify the implementation of the Curriculum for I semester to VIII semester, Syllabi for I & II semesters' courses and list of Professional Elective Courses (PEC) for B.E., degree Computer Science Engineering (Artificial Intelligence & Machine Learning) programme as presented in the Academic Council meeting subjected to the fulfilment conditions of AICTE and Anan University.

ME Structural Engineering

1.9	**Agenda point**	:	To consider and ratify the recommendations of Board of Studies of Civil Engineering to implement the Syllabi for II, III & IV semester courses of ME., (Structural Engineering) degree programme as given in **Annexure – 2** (page no : 68 to 121)
	Suggestion from members and response	:	*Members suggested to include Indian Standard Codes for Concrete Materials in Unit-I and Indian Standard Codes for Testing of Concretes in Unit –II of the course 'Concrete Technology and Special Concretes'.* **Response :** Indian Standard Codes for Concrete Materials is included in Unit-I and Indian Standard Codes for Testing of Concretes is included in Unit –II of the course 'Concrete Technology and Special Concretes'. *Members suggested to include the following subjects as a part of Professional Elective subjects* *1) Theory of Structural Stability* *2) Retrofitting and Rehabilitation of structures*

			3) Earthquake Resistant Design of structure *4) Design of high rise structures* *5) Fracture mechanism in concrete structures* **Response :** Following courses are already in the curriculum 1) Tall building 2) Maintenance and Rehabilitation of Structures 3) Earthquake Analysis and Design of Structures 4) Stability of Structures
	Resolution/ Approval	:	Resolved to approve and ratify the implementation of the Syllabi for II, III & IV semester courses of M.E Structural Engineering degree programme as presented in the Academic Council meeting.

The meeting concluded with Thanks to the Chairman, Expert members and internal members.

05.05.22

Dr.V.R.RAVI
Member Secretary
Academic Council

Dr.E.Kamalanaban
Chairman
Academic Council

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ATTENDANCE SHEET

Meeting No: VTHT / DA / 2021-2022/14 **Time: 03.00 PM–04.00 PM**

Date: 03.05.2022 **Mode: Virtual mode – Google Meet**

S.No	NAME OF THE MEMBERS	DESIGNATION	SIGNATURE
1	**Dr. E.Kamalanaban**	**Principal** Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College	
2	**Dr. J. Kumar**	**Professor & Director** UGC, BSR Faculty Research Fellow, Crystal Growth Centre Anna University, Chennai	
3	**Dr. A. Rajadurai**	**Former Professor** Dept. of Production Technology MIT Campus, Chennai - 600044	
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5	**Mr. S.G. Balagurunathan**	**Director** WABCO Ltd, Chennai	
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8	**Dr. D.Nisar Ahmed**	**Director and Professor** MEASI Institute of Management, Chennai.	03.05.2022
9	**Prof. Dr. S. Govindasami**	**Controller of Examination**	

10	Prof. Dr. D. Yuvaraj	Professor / Dept. of Biotech Dean – School of Bio Chemical Engineering	
11	Prof. Dr. P. Nagasankar	Professor / Dept. of Mechanical Dean – Science & Humanities	
12	Prof. Dr. R . Suresh	Professor / Dept. of Mechanical Dean – Training & Placement	
13	Prof. Dr. B. Bharathiraja	Professor / Dept. of Chemical Dean – Research & Development	
14	Prof.Dr. A. Suresh kumar	Head / Dept. of MBA Dean Industry Relations,	
15	Dr. M. Malleshwari	Professor & Head Dept. of IT	
16	Dr. P. Vijayasarathi	Assoc. Professor / Dept. of Mechanical Deputy Dean IQAC	
17	Dr. A. Vishnu Kumar	Asst. Professor / Dept. of IT Deputy Dean - Technical Clubs	
18	Dr. N. Gayathri	Assoc. Professor & Head / Dept. of mechanical Deputy Dean - Professional Societies	
19	Dr. A. Saravana Raj	Asst. Professor / Dept. of Chemical Deputy Dean	
20	Dr. S. Durga Devi	Associate Professor & Head Dept. of CSE	
21	Prof. Dr. V. R. Ravi	Professor / Dept. of ECE Dean Academics	

09.05.22

Dr.V.R.RAVI
Member Secretary
Academic Council

Dr.E.Kamalanaban
Chairman
Academic Council