VIT
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Minutes of the 63rd Meeting of the Academic Council

(23rd September 2021 | 11.00 am | Vellore Campus | Zoom Online Mode)

Members Present:

1. Dr. Rambabu Kodali, Vice-Chancellor, Chairperson
2. Dr. S. Narayanan, Pro-Vice Chancellor
3. Dr. V.S. Kanchana Bhaaskaran, Pro-Vice Chancellor
4. Dr. K. Giridhar, IIT Madras
5. Dr. K.V.S. Hari, IISc, Bangalore
6. Mr. Lawrence Mohanraj, IBM India Pvt. Ltd, Chennai
7. Dr. G. Jayaraman, Dean Academics, Vellore Campus
8. Dr. A. Nayeemulla Khan, Dean Academics, Chennai Campus
9. Dr. G. Mohan Ganesh, Controller of Examination
10. Dr. A. Mary Saral, Dean, School of Advanced Sciences, Vellore Campus
11. Dr. V. Pragasam, Dean, School of Biosciences and Technology, Vellore Campus
12. Dr. S. Shantha Kumar, Dean, School of Civil Engineering, Vellore Campus
13. Dr. Shishir Kumar Behera, Dean, School of Chemical Engineering, Vellore Campus
14. Dr. Ramesh Babu K, Dean, School of Computer Science and Engineering, Vellore Campus
15. Dr. S. Sivabalan, Dean, School of Electrical Engineering, Vellore Campus
16. Dr. Kittur Harish Mallikarjun, Dean, School of Electronics Engineering, Vellore Campus
17. Dr. Balakrushna Tripathy, Dean, School of Information Technology, Vellore Campus
18. Dr. R. Vasudevan, Dean, School of Mechanical Engineering, Vellore Campus
19. Dr. G. Velmurugan, Dean, School of Social Sciences and Languages, Vellore Campus
20. Dr. Goutam Kumar Kundu, Dean, VIT Business School, Vellore Campus
21. Dr. S. Babu, Dean, VIT Agricultural Innovations and Advanced Learning, Vellore Campus
22. Dr. Saleem Ahmed, Dean, VIT School of Design, Vellore Campus
23. Dr. A. Madhumathi, Director, School of Architecture, Vellore Campus
24. Dr. Mahindrakar Amit Baburao, Director, Students' Welfare, Vellore Campus
25. Dr. P. Ramesh Babu, Dean, Academics Research, Vellore Campus
26. Dr. Suvojit Ganguly, Assistant Dean, School of Hotel and Tourism Management, Vellore Campus
27. Dr. V. Samuel Rajkumar, Director, Career Development Centre, Vellore Campus
28. Dr. G. Kalaichelvan, Director, UG Admissions, Vellore Campus
29. Dr. V. Ramasubramanian, Director, PG Admissions, Vellore Campus
30. Dr. P.C. Sabumon, Dean, Academic Research i/c, Chennai Campus
31. Dr. S. Mahalakshmi, Dean, School of Advanced Sciences, Chennai Campus
32. Dr. R. Ganesan, Dean, School of Computer Sciences and Engineering, Chennai Campus
33. Dr. A. Peer Fathima, Dean, School of Electrical Engineering, Chennai Campus
34. Dr. A. Siva Subramanian, Dean, School of Electronics Engineering, Chennai Campus
35. Dr. M. Gandhi, Dean, VIT School of Law, Chennai Campus
36. Dr. R. Sivakumar, Dean, School of Mechanical Engineering, Chennai Campus
37. Dr. S.K. Sudarsanam, Dean, VIT Business School, Chennai Campus
38. Dr. S. Elavenil, Dean, School of Civil Engineering, Chennai Campus
39. Dr. Saradha Rajkumar, Dean, School of Social Sciences and Languages, Chennai Campus
40. Dr. V. Viswanathan, Deputy Controller of Examinations, Chennai Campus
41. Dr. S. Prabu, Professor, School of Computer Science and Engineering, Vellore Campus
42. Dr. V. Thanikaiselvan, Associate Professor, School of Electronics Engineering, Vellore Campus
43. Dr. A. Raja Annamalai, Associate Professor, Centre for Innovative Manufacturing Research, Vellore Campus
44. Dr. Mathew M. Noel, Professor, School of Electrical Engineering, Vellore Campus

45. Mr. Abhishek Kumar Singh (18BCE2509) Student Council Member
46. Dr. K. Sathiyanarayanan, Registrar, Member Secretary

Leave of Absence:

1. Dr. N. Lalitha, Educational Consultant, Chennai
2. Mr. Lakshminarayanan, Cognizant Digital Engineering Practice, Chennai
3. Shri. Jaji Vijayaraman, Valeo India Private Limited., Chennai
4. Mr. Arindam Sen, Bangalore, Alumni representative
5. Dr. G. Madhumitha, Assistant Professor, School of Advanced Sciences, Vellore Campus
6. Dr. Jagadish Mudiganti, Dean Academics, VIT-AP University, Special Invitee

Item 63/1	**Welcome by Vice Chancellor** • Vice Chancellor welcomed all the members of the Academic Council followed by the introduction of the following new Academic Council members by the Registrar. 1. Dr. P.C. Sabumon, Dean, Academic Research i/c, Chennai Campus 2. Dr. S. Mahalakshmi, Dean, School of Advanced Sciences, Chennai Campus 3. Dr. R. Ganesan, Dean, School of Computer Sciences and Engineering, Chennai Campus 4. Dr. S. Elavenil, Dean, School of Civil Engineering, Chennai Campus 5. Dr. V. Viswanathan, Deputy Controller of Examinations, Chennai Campus
Item 63/2	**Remarks by Chancellor** • To discuss on the possibility of reopening the campus for students. • Curriculum to be on par with leading international universities. • Requirement of constant effort to improve the teaching-learning, research publications and patents so as to move up in the world ranking. • Welfare of students to be prioritised while bringing in any changes. • VIT should be the leader in all aspects and should not lag behind in anything
Item 63/3	**To consider and confirm the Minutes of the 62nd meeting of the Academic Council.** *(Annexure 1)* Comments arising out of the minutes of the 62nd meeting of the Academic Council are none. The Academic Council confirmed the above minutes.
Item 63/4	**To consider and approve the list of graduands from Vellore Campus for the award of Undergraduate and Postgraduate degrees.** *(Annexure 2)* The Academic Council considered and approved the same.
Item 63/5	**To consider and approve the list of graduands from Chennai Campus for the award of Undergraduate and Postgraduate degrees.** *(Annexure 3)* The Academic Council considered and approved the same.
Item 63/6	**To consider and approve the list of graduands from Vellore and Chennai campus for the award of research degrees.** *(Annexure 4)* The Academic Council considered and approved the same.

| Item 63/7 | To consider and approve the introduction of bridge courses for students admitted in Bachelor of Technology in Electronics and Communication Engineering with specialisation in Biomedical Engineering and Bachelor of Technology in Computer Science and Engineering with specialisation in Bioinformatics. The following courses will be considered as the non-graded course requirement for specific group of students. The credits will not be included in the calculation of CGPA. |

Groups in Secondary Education	Bridge Course
Physics, Chemistry and Mathematics	Biology (BBIT100N)
Physics, Chemistry and Biology	Mathematics (BMAT100N)

The Academic Council considered and approved the same.

| Item 63/8 | To consider and approve the course content for the following courses (27) offered in Bachelor of Technology. The curriculum was approved in the 62nd meeting of the Academic Council. |

Course Code	Course Title	L	T	P	C
BCHY101L	Engineering Chemistry	3	0	0	3
BCHY101P	Engineering Chemistry Lab	0	0	2	1
BPHY101L	Engineering Physics	3	0	0	3
BPHY101P	Engineering Physics Lab	0	0	2	1
BMAT101L	Calculus	3	0	0	3
BMAT101P	Calculus Lab	0	0	2	1
BMAT100L	Mathematics	3	1	0	4
BMAT100N	Mathematics	3	1	0	4
BCSE101E	Computer Programming: Python	1	0	4	3
BCSE102L	Structured and Object-Oriented Programming	2	0	0	2
BCSE102P	Structured and Object-Oriented Programming Lab	0	0	4	2
BCSE103E	Computer Programming : Java	1	0	4	3
BECE101L	Basic Electronics	2	0	0	2
BECE101P	Basic Electronics Lab	0	0	2	1
BEEE101L	Basic Electrical Engineering	2	0	0	2
BEEE101P	Basic Electrical Engineering Lab	0	0	2	1
BMEE102P	Engineering Design Visualisation Lab	0	0	4	2
BMEE201L	Engineering Mechanics	2	1	0	3
BENG101L	Technical English Communication	2	0	0	2
BENG101P	Technical English Communication Lab	0	0	2	1
BENG101N	Effective English Communication	0	0	4	2
BENG201P	Technical Report Writing	0	0	2	1
BSTS101P	Quantitative Skills Practice I	0	0	3	1.5
BSTS102P	Quantitative Skills Practice II	0	0	3	1.5
BXXX101N	Introduction to Engineering	0	0	0	1
BBIT100L	Biology	3	0	0	3
BBIT100N	Biology	3	0	0	3

(Annexure 5)

The Academic Council considered and approved the same.

| Item 63/9 | To consider and approve the course content for the following courses (21) offered in Five year Integrated Master of Technology in Construction Technology and Management. The curriculum was approved in the 62nd meeting of the Academic Council. |

Course Code	Course Title	L	T	P	C
ICHY101L	Engineering Chemistry	3	0	0	3

	ICHY101P	Engineering Chemistry Lab	0	0	2	1
	IPHY101L	Engineering Physics	3	0	0	3
	IPHY101P	Engineering Physics Lab	0	0	2	1
	IMAT101L	Calculus	3	0	0	3
	IMAT101P	Calculus Lab	0	0	2	1
	ICSE101E	Computer Programming: Python	1	0	4	3
	ICSE103E	Computer Programming : Java	1	0	4	3
	IECE101L	Basic Electronics	2	0	0	2
	IECE101P	Basic Electronics Lab	0	0	2	1
	IEEE101L	Basic Electrical Engineering	2	0	0	2
	IEEE101P	Basic Electrical Engineering Lab	0	0	2	1
	IMEE102P	Engineering Design Visualisation Lab	0	0	4	2
	IMEE201L	Engineering Mechanics	2	1	0	3
	IENG101L	Technical English Communication	2	0	0	2
	IENG101P	Technical English Communication Lab	0	0	2	1
	IENG101N	Effective English Communication	0	0	4	2
	IENG201P	Technical Report Writing	0	0	2	1
	ISTS101P	Quantitative Skills Practice I	0	0	3	1.5
	ISTS102P	Quantitative Skills Practice II	0	0	3	1.5
	IXXX101N	Introduction to Engineering	0	0	0	1

(Annexure 6)

The Academic Council considered and approved the same.

Item 63/10	To consider and approve the course content for the following courses (20) offered in Integrated Master of Science in Physics, Chemistry, Mathematics. The curriculum was approved in the 62nd meeting of the Academic Council.

Course Code	Course Title	L	T	P	C
TMAT103L	Calculus and Analytical Geometry	3	0	0	3
TMAT103P	Calculus and Analytical Geometry Lab	0	0	2	1
TPHY102L	Physics of Waves	3	0	0	3
TPHY102P	Physics of Waves Lab	0	0	2	1
TCHY102L	Inorganic and Organic Chemistry	3	0	0	3
TCHY102P	Inorganic and Organic Chemistry Lab	0	0	2	1
TCHY140L	Environmental Studies	3	0	0	3
TCHY103L	Physical and Analytical Chemistry	3	0	0	3
TCHY103P	Physical and Analytical Chemistry Lab	0	0	2	1
TCSE103L	Programming in Python	2	0	0	2
TCSE103P	Programming in Python Lab	0	0	4	2
TCSE104L	Structured and Object Oriented Programming	2	0	0	2
TCSE104P	Structured and Object Oriented Programming Lab	0	0	4	2
TENG101L	Effective English Communication	2	0	0	2
TENG102L	Technical English Communication	2	0	0	2
TENG102P	Technical English Communication Lab	0	0	2	1
TENG201P	Technical Report Writing	0	0	2	1
TBIT101L	Biological Science	3	0	0	3
TBIT101P	Biological Science Lab	0	0	2	1
TXXX101N	Introduction to Science	0	0	0	2

(Annexure 7)

The Academic Council considered and approved the same.

Item 63/11	To consider and approve the course content for the following courses (20) offered in Integrated Master of Science in Biotechnology and Integrated Master of Science in Food Science and Technology. The curriculum was approved in the 62nd meeting of the Academic Council.

Course Code	Course Title	L	T	P	C
TMAT101L	Mathematics	3	1	0	4
TCHY101L	Chemistry	3	0	0	3
TCHY101P	Chemistry Lab	0	0	2	1
TPHY101L	Physics	3	0	0	3
TPHY101P	Physics Lab	0	0	2	1
TENG101L	Effective English Communication	2	0	0	2
TENG102L	Technical English Communication	2	0	0	2
TENG102P	Technical English Communication Lab	0	0	2	1
TENG201P	Technical Report Writing	0	0	2	1
TCHY140L	Environmental Studies	3	0	0	3
TBIT101L	Biological Science	3	0	0	3
TBIT102L	Bioethics and Biosafety	2	0	0	2
TXXX101N	Introduction to Science	0	0	0	2
TBIT106L	Biochemistry	3	0	0	3
TBIT106P	Biochemistry Lab	0	0	4	2
TBIT103L	Cell Biology	3	0	0	3
TBIT104L	Molecular Biology	3	0	0	3
TBIT105P	Cell and Molecular Biology Lab	0	0	4	2
TBIT107L	Industrial Unit Operations	3	0	0	3
TBIT107P	Industrial Unit Operations Lab	0	0	2	1

(Annexure 8)

The Academic Council considered and approved the same.

Item 63/12	To consider and approve the course content for the following courses (27) offered in Bachelor of Science with Physics and Chemistry, Mathematics and Physics, Chemistry and Mathematics, Mathematics and Computing. The curriculum was approved in the 62nd meeting of the Academic Council.

Course Code	Course Title	L	T	P	C
UENG101P	Effective English Communication Lab	0	0	4	2
UENG102L	Technical English Communication	2	0	0	2
UENG102P	Technical English Communication Lab	0	0	2	1
UENG201P	Technical Report Writing	0	0	2	1
USTS152P	Qualitative Skills Practice	0	0	3	1.5
UMAT151L	Calculus	3	0	0	3
UMAT151P	Calculus Lab	0	0	2	1
UPHY151L	Classical Mechanics	4	0	0	4
UCHY151L	Structure, Bonding and Reactivity	4	0	0	4
UBIT151L	Biological Science	3	1	0	4
UMAT155L	Differential Equations and Laplace Transforms	3	0	0	3
UMAT155P	Differential Equations and Laplace Transforms Lab	0	0	2	1
UPHY152L	Electricity and Magnetism	4	0	0	4
UPHY153P	Physics Lab-I	0	0	4	2
UCHY152L	Physical Chemistry-I	4	0	0	4
UCHY152P	Physical Chemistry Lab	0	0	4	2
UMAT152L	Discrete Mathematical Structures	3	1	0	4
UMAT153L	Applied Algebra	3	1	0	4
UMAT154L	Probability and Statistics	3	0	0	3

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UMAT154P	Probability and Statistics Lab	0	0	2	1
UMAT157L	Linear Algebra	3	1	0	4
UCHY190L	Environmental Studies	3	0	0	3
UXXX101N	Introduction to Science	0	0	0	2
UCSE151E	Computer Programming: Python	1	0	4	3
UMAT156L	Analytical solid Geometry and Vector Calculus	3	1	0	4
UCSE152L	Structured and Object Oriented Programming	2	0	0	2
UCSE152P	Structured and Object Oriented Programming Lab	0	0	4	2

(Annexure 9)

The Academic Council considered and approved the same.

| Item 63/13 | To consider and approve the course content for the following courses (16) offered in Master of Social Work. The curriculum was approved in the 62nd meeting of the Academic Council. |

Course Code	Course Title	L	T	P	C
PENG101N	Communicative English	2	0	0	2
PENG102N	Documentation and Report Writing	2	0	0	2
PSWK101L	Social Work	3	0	0	3
PSWK102L	Social Work Practice with Individuals	3	0	0	3
PSWK103L	Social Work Practice with Groups	3	0	0	3
PSWK104L	Social Work Practice with Community	3	0	0	3
PSWK105L	Psychology	3	0	0	3
PSWK106L	Sociology	3	0	0	3
PSWK101F	Field Work I	0	0	0	6
PSWK107L	Social Policy and Planning	3	0	0	3
PSWK108L	Community Organisation and Development	3	0	0	3
PSWK109L	Social Welfare Administration	3	0	0	3
PSWK110L	Principles and Practice of Counselling	3	0	0	3
PSWK111L	Social Legislation	3	0	0	3
PSWK112E	Research Methodology	2	0	4	4
PSWK102F	Field Work II	0	0	0	6

(Annexure 10)

The Academic Council considered and approved the same.

| Item 63/14 | To consider and approve the course content for the following soft skill courses (3) offered in Bachelor of Science in Agriculture (Honours). The curriculum was approved in the 49th meeting of the Academic Council. |

Course Code	Course Title	L	T	P	J	C
LFS1101	Introduction to Aptitude and General Awareness	3	0	0	0	1
LFS2101	Enhanced Numerical Ability and Perception of Current Affairs	3	0	0	0	1
LFS3101	Advanced Problem Solving Skill and Prevailing Awareness	3	0	0	0	1

(Annexure 11)

The Academic Council considered and approved the same.

Item 63/15	To consider and approve the minor revision in the course content for the following course (1) offered in Bachelor of Science in Multimedia and Animation. The curriculum was approved in the 37th meeting of the Academic Council.						

Course Code	Course Title	L	T	P	J	C
MMA1005	Programming Fundamentals	3	0	2	0	4

(Annexure 12)

The Academic Council considered and approved the same.

Item 63/16	To consider and approve the course content for the following Programme Elective courses (12) offered in Integrated Master of Science in Computational Statistics and Data Analytics. The curriculum was approved in the 55th meeting of the Academic Council.

Course Code	Course Title	L	T	P	J	C
MAT1031	Bio Statistics	3	0	2	0	4
MAT1032	Decision Modelling Techniques	2	0	2	0	3
MAT3010	Total Quality Management	3	0	0	4	4
MAT3011	Non Parametric Tests	3	0	2	0	4
MAT3012	Data Warehousing and Data Mining	3	0	0	0	3
MAT3013	Data Engineering for Analytics	2	0	2	4	4
MAT3014	Software Quality and Testing	2	0	0	4	3
CSE1030	Introduction to Internet of Things	3	0	2	0	4
CSE1031	Web Technologies	2	0	2	0	3
CSE1032	Cloud Computing Techniques	3	2	0	0	4
CSE2037	Object Oriented Programming	3	0	2	0	4
CSE3100	Java Programming	3	0	2	0	4

(Annexure 13)

The Academic Council considered and approved the same.

Item 63/17	To consider and approve the course content for the following University Core course (1) offered in Integrated Master of Technology in Computer Science and Engineering and Integrated Master of Technology in Computer Science and Engineering with specialization in Data Science. The curriculum was approved in the 55th meeting of the Academic Council.

Course Code	Course Title	L	T	P	J	C
MAT1022	Linear Algebra	3	0	0	0	3

(Annexure 14)

The Academic Council considered and approved the same.

Item 63/18	To consider and approve the course content for the following Programme Elective course (1) offered in Master of Technology in Computer Science and Engineering with specialization in Artificial Intelligence and Machine Learning. The curriculum was approved in the 55th meeting of the Academic Council.

Course Code	Course Title	L	T	P	J	C
MAT6022	Stochastic Models and Applications	3	0	0	0	3

(Annexure 15)

The Academic Council considered and approved the same.

Item 63/19	To consider and approve the course content for the following Programme Elective course (1) offered in Master of Science in Business Statistics. The curriculum was approved in the 59th meeting of the Academic Council.

Course Code	Course Title	L	T	P	J	C
MAT6021	Artificial Intelligence in Business	3	0	2	0	4

(Annexure 16)

The Academic Council considered and approved the same.

Item 63/20 — To consider and approve the minor revision in the course content for the following School level taught courses (7) offered for the research students in School of Advanced Sciences.

Course Code	Course Title	L	T	P	C
STC031	Applications of Advanced Instruments	3	0	0	3
STC032	Concepts in Chemistry	3	0	0	3
STC033	Concepts in Pharmaceutical Chemistry	3	0	0	3
RES7001	Research Methodology	3	1	0	4
STC034	Advanced X-ray Diffraction and Electron Microscopy Techniques	3	0	0	3
STC035	Characterization Techniques and Instrumentation	3	0	0	3
STC036	Advanced Statistical Modelling	3	0	0	3

(Annexure 17)

The Academic Council considered and approved the same.

Item 63/21 — To consider and approve the new academic programme and curriculum of Bachelor of Commerce (Honours).

(Annexure 18)

The Academic Council considered and approved the same.

Item 63/22 — To consider and approve the course content for the following courses (11) offered in Bachelor of Commerce (Honours).

Course Code	Course Title	L	T	P	C
UCCA151L	Principles of Economics	3	1	0	4
UCCA152L	Business Mathematics	3	1	0	4
UCCA153L	Financial Accounting	3	2	0	4
UCCA154L	Management Principles	3	1	0	4
UCCA155L	Business Law	3	1	0	4
UCCA156L	Corporate Accounting	3	2	0	5
UCCA157L	Principles of Marketing	3	1	0	4
UCCA158L	Banking Theory and Practice	3	1	0	4
UCCA159L	Corporate Law	3	1	0	4
UCCA160L	Business Statistics	3	1	0	4
UCHY190L	Environmental Studies	3	0	0	3

(Annexure 19)

The Academic Council considered and approved the same.

Item 63/23	To consider and approve the course content for the following course (1) offered in Bachelor of Business Administration (Honours). The curriculum was approved in the 58th meeting of the Academic Council.

Course Code	Course Title	L	T	P	J	C
BIT1032	Cell Biology and Biochemistry	3	1	0	0	4

(Annexure 20)

The Academic Council considered and approved the same.

Item 63/24

To consider and approve the courses requested for Programme Migration to Bachelor of Technology in Mechatronics and Automation. The Programme was approved in the 59th meeting of the Academic Council.

MEE1002 – Engineering Mechanics
EEE1025 – Electrical and Electronics Systems

The Academic Council considered and approved the same.

Item 63/25

To consider and approve the course content for the following courses (12) offered in Bachelor of Technology in Computer Science and Engineering with Specialization in Artificial Intelligence and Robotics. The curriculum was approved in the 59th meeting of the Academic Council.

Course Code	Course Title	L	T	P	J	C
CSE3101	Robots, Bots and Communication	2	0	2	4	4
CSE3102	Simulation and Modeling	2	0	2	0	3
CSE3103	Fundamentals of Autonomous Systems	3	0	0	0	3
CSE3104	Fundamentals of Artificial Intelligence	2	0	2	4	4
CSE3105	Machine Learning and its Applications	2	0	2	4	4
CSE3106	Soft computing	3	0	0	4	4
CSE3107	Digital Twin	3	0	0	4	4
CSE3108	Blockchain Technology	2	0	2	0	3
CSE3109	Cloud computing	2	0	2	4	4
CSE3110	Edge Computing	2	0	2	4	4
CSE3111	Cyber Security	3	0	0	0	3
CSE3114	Human–Robot Interaction	3	0	0	0	3

(Annexure 21)

The Academic Council considered and approved the same.

Item 63/26

To consider and approve the course content for the following courses (2) offered in Master of Technology in Computer Science and Engineering with specialization in Artificial Intelligence and Machine Learning. The curriculum was approved in the 55th meeting of the Academic Council.

Course Code	Course Title	L	T	P	J	C
CSE6084	Robotics Process Automation	2	0	2	0	3
CSE6085	Industry Practices in Artificial Intelligence and Machine Learning	1	0	0	0	1

(Annexure 22)

The Academic Council considered and approved the same.

Item 63/27	To consider and approve the course content and renaming of the title for the following course (1) offered in Master of Technology in Computer Science and Engineering with Specialization in Cyber Physical Systems. The curriculum was approved in the 55th meeting of the Academic Council.

Course Code	Existing Course Title	Proposed Course Title	L	T	P	J	C
CSE6086	Design of CPS Prototype	Design of Cyber Physical Systems	0	0	0	4	1

(Annexure 23)

The Academic Council considered and approved the same.

Item 63/28	To consider and approve the following changes in the courses offered in Master of Technology in Computer Science and Engineering with specialisation in Cyber Physical Systems. The curriculum was approved in the 55th meeting of the Academic Council. CSE5002 Operating Systems replaced with CSE5003 Database Systems: Design and Implementation in the curriculum under Programme Core category. The Academic Council considered and approved the same.

Item 63/29	To consider and approve the course content for the following courses (2) offered in Bachelor of Technology in Computer Science and Engineering with specialisation in Cyber Physical Systems. The curriculum was approved in the 55th meeting of the Academic Council.

Course Code	Course Title	L	T	P	J	C
CSE3112	Sensors and Actuators	2	0	2	0	3
CSE3113	Telemedicine	2	0	2	0	3

(Annexure 24)

The Academic Council considered and approved the same.

Item 63/30	To consider and approve the following changes in the courses offered in Bachelor of Technology in Computer Science and Engineering with specialisation in Cyber Physical Systems. The curriculum was approved in the 55th meeting of the Academic Council. a. Removal of prerequisite for the course CSE2035 – Communication for Cyber Physical Systems. b. Removal of prerequisite for the course Distributed Real Time Systems. c. Basics of Control Systems replaced with EEE3001 Control Systems in the curriculum under Programme Core category. d. Artificial Intelligence replaced with CSE1014 Foundation of Artificial Intelligence in the curriculum under Programme Elective category. The Academic Council considered and approved the same.

Item 63/31	To consider and ratify the following changes in the courses in Bachelor of Technology in Computer Science and Engineering with specialisation in Artificial Intelligence and Robotics. a. "CSE1004 – Network and Communication" and "CSE1022 – Foundations of Robotics: kinematics, Dynamics and motion control" courses are added as pre-requisite for the course "CSE3101- Robots, Bots and Communication" in the curriculum.

	b. The course "CSE1023 – Robot Vision" is moved to Program Elective from Program Core in the curriculum. c. The course "CSE1007 – JAVA programing" is included in the program core in the curriculum. d. The title of the course "Robot Ergonomics" is changed to "CSE3114 – Human–Robot Interaction". e. The course "Software Engineering Principles" is replaced with "CSE3001 Software Engineering" in the curriculum under Programme Elective category. f. The following elective courses (2) to be adopted from the curriculum of Bachelor of Technology in Computer science and Engineering programme with the same course code. CSE3001 – Software Engineering CSE3020 – Data Visualization The Academic Council considered and approved the same.
Item 63/32	To consider and ratify the change in credit structure and course content for the following courses (3) offered in Integrated Master of Technology in Computer Science and Engineering with specialisation in Business Analytics. <table><tr><th>Course Code</th><th>Course Title</th><th>L</th><th>T</th><th>P</th><th>J</th><th>C</th></tr><tr><td>MGT1057</td><td>Introduction to Data Science and Business Analytics</td><td>3</td><td>0</td><td>0</td><td>0</td><td>3</td></tr><tr><td>MGT1058</td><td>Operations Research and Management</td><td>2</td><td>0</td><td>0</td><td>0</td><td>2</td></tr><tr><td>MGT1060</td><td>Business analytics with Spread Sheet Modelling</td><td>3</td><td>0</td><td>0</td><td>0</td><td>3</td></tr></table> *(Annexure 25)* The Academic Council considered and approved the same.
Item 63/33	**Any other item** No additional Agenda were placed in the meeting.
Item 63/34	**Vote of thanks** The meeting ended with vote of thanks by the Registrar.

Dr. K. Sathiyanarayanan
Secretary, Academic Council
Registrar, Vellore Institute of Technology

REGISTRAR
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(Deemed to be University under section 3 of UGC Act, 1956)
Vellore-632 014, Tamil Nadu, India

Dr. Rambabu Kodali
Chairperson, Academic Council
Vice Chancellor, Vellore Institute of Technology

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