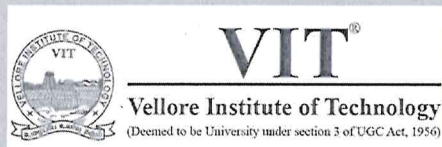


**Minutes of the**  
**67<sup>th</sup> Meeting of the Academic Council**  
**held on**  
**08<sup>th</sup> August 2022**





## Minutes of the 67<sup>th</sup> Meeting of the Academic Council

(08<sup>th</sup> August 2022 | 10.30 AM | Vellore Campus)

### 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. Mr. Lakshminarayanan, Cognizant Digital Engineering Practice, Chennai
6. Shri. Jaji Vijayaraman, Valeo India Private Limited., Chennai
7. Mr. Lawrence Mohanraj, IBM India Pvt. Ltd, Chennai
8. Dr. M. Anthony Xavier, Dean Academics, Vellore Campus
9. Dr. A. Nayeemulla Khan, Dean Academics, Chennai Campus
10. Dr. R. Murugavel, Controller of Examination
11. Dr. N. Arunai Nambiraj, Dean, School of Advanced Sciences, Vellore Campus
12. Dr. R. Siva, Dean, School of Biosciences and Technology, Vellore Campus
13. Dr. L. Muruganandam, Dean, School of Chemical Engineering, Vellore Campus
14. Dr. Ramesh Babu K, Dean, School of Computer Science and Engineering, Vellore Campus
15. Dr. Mathew M. Noel, Dean, School of Electrical Engineering, Vellore Campus
16. Dr. S. Sivanantham, Dean, School of Electronics Engineering, Vellore Campus
17. Dr. S. Sumathy, Dean, School of Information Technology, Vellore Campus
18. Dr. K. Devendranath Ramkumar, Dean, School of Mechanical Engineering, Vellore Campus
19. Dr. M. Manoharan, Dean, School of Social Sciences and Languages, Vellore Campus
20. Dr. S. Babu, Dean, VIT Agricultural Innovations and Advanced Learning, Vellore Campus
21. Dr. Saleem Ahmed, Dean, VIT School of Design, Vellore Campus
22. Dr. A. Madhumathi, Director, School of Architecture, Vellore Campus
23. Dr. C.D. Naiju, Director, Students' Welfare, Vellore Campus
24. Dr. P. Arulmozhivarman, Dean, Academics Research, Vellore Campus
25. Dr. Suvojit Ganguly, Assistant Dean, School of Hotel and Tourism Management, Vellore Campus
26. Dr. V. Samuel Rajkumar, Director, Career Development Centre, Vellore Campus
27. Dr. G. Kalaichelvan, Director, UG Admissions, Vellore Campus
28. Dr. R. Ganesan, Dean, School of Computer Sciences and Engineering, Chennai Campus
29. Dr. Senthil Kumar N, Dean, School of Electrical Engineering, Chennai Campus
30. Dr. Susan Elias, Dean, School of Electronics Engineering, Chennai Campus
31. Dr. M.S. Soundara Pandian, Dean, VIT School of Law, Chennai Campus
32. Dr. Annamalai K, Dean, School of Mechanical Engineering, Chennai Campus
33. Dr. Hari Krishnan K, Dean, VIT Business School, Chennai Campus
34. Dr. S. Elavenil, Dean, School of Civil Engineering, Chennai Campus
35. Dr. Saradha Rajkumar, Dean, School of Social Sciences and Languages, Chennai Campus
36. Dr. D. Vasanth Kumar, HOD, VIT Fashion Institute of Technology, Chennai Campus
37. Dr. V. Viswanathan, Deputy Controller of Examinations, Chennai Campus
38. Dr. V. Thanikaiselvan, Associate Professor, School of Electronics Engineering, Vellore Campus
39. Dr. A. Raja Annamalai, Associate Professor, Centre for Innovative Manufacturing Research, Vellore Campus
40. Dr. (Ms.) T. Jayabarathi, Registrar, Member Secretary
41. Dr. M. Subaji, Director, VIT Online Learning Institute (VITOL), Vellore Campus (Special Invitee)

### Leave of Absence:

1. Dr. N. Lalitha, Educational Consultant, Chennai
2. Dr. K.V.S. Hari, IISc, Bangalore
3. Mr. Arindam Sen, Bangalore, Alumni representative
4. Dr. A.S. Santhi, Dean, School of Civil Engineering, Vellore Campus

*M. Ann*

5. Dr. P.C. Sabumon, Dean, Academic Research, Chennai Campus
6. Dr. V. Ramasubramanian, Director, PG Admissions, Vellore Campus
7. Dr. S. Mahalakshmi, Dean, School of Advanced Sciences, Chennai Campus
8. Dr. G. Madhumitha, Assistant Professor, School of Advanced Sciences, Vellore Campus
9. Dr. Jagadish Mudiganti, Registrar, VIT-AP University, Special Invitee
10. Ms. Vrushali Deshmukh (19BCE0033) Student Council Member

Item 67/1	<p><b>Welcome by Vice Chancellor</b></p> <p>Vice Chancellor welcomed all the members of the Academic Council.</p>																																								
Item 67/2	<p><b>Remarks by Chancellor</b></p> <ul style="list-style-type: none"> <li>• Honorable Chancellor congratulated faculty members for their tremendous contribution in making VIT ranked Ninth in the category of University and Tenth in the category of Research in NIRF Ranking 2022.</li> <li>• 3 year Non-Engineering programmes needs more attention.</li> <li>• 37<sup>th</sup> Annual convocation will be on 18<sup>th</sup> of August 2022. Honorable Governor of Tamil Nadu Mr. R. N. Ravi will be the chief guest.</li> </ul>																																								
Item 67/3	<p><b>To consider and confirm the Minutes of the 66<sup>th</sup> meeting of the Academic Council.</b></p> <p style="text-align: right;"><b>(Annexure 1)</b></p> <p><b>Comments arising out of the minutes of the 66<sup>th</sup> meeting of the Academic Council are none.</b></p> <p><b>The Academic Council confirmed the above minutes.</b></p>																																								
Item 67/4	<p><b>Action taken report on the minutes of 64<sup>th</sup> Meeting of the Academic Council (item no. 64/42.3) held on 16<sup>th</sup> December 2021</b></p> <p>The minutes of 64<sup>th</sup> Academic Council approved to combine the following courses</p> <table border="1" data-bbox="327 1178 1422 1328"> <thead> <tr> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>Basic Electrical Engineering</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> </tr> <tr> <td>Basic Electrical Engineering Lab</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> </tr> <tr> <td>Basic Electronics</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> </tr> <tr> <td>Basic Electronics Lab</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> </tr> </tbody> </table> <p>and offered as given below. This will be effective from the Academic Year 2022 -23 onwards.</p> <table border="1" data-bbox="327 1411 1422 1498"> <thead> <tr> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>Basic Electrical and Electronics Engineering</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> </tr> <tr> <td>Basic Electrical and Electronics Engineering Lab</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> </tr> </tbody> </table> <p>To consider and approve the revised programme credit structure and curriculum for the following Bachelor of Technology programmes and Five Year Integrated Master of Technology in Construction Technology and Management.</p> <ol style="list-style-type: none"> <li>1) Bachelor of Technology in Biotechnology</li> <li>2) Bachelor of Technology in Chemical Engineering</li> <li>3) Bachelor of Technology in Civil Engineering</li> <li>4) Bachelor of Technology in Computer Science and Engineering</li> <li>5) Bachelor of Technology in Computer Science and Engineering with Specialization in Artificial Intelligence and Machine Learning</li> <li>6) Bachelor of Technology in Computer Science and Engineering with Specialization in Artificial Intelligence and Robotics</li> </ol>	Course Title	L	T	P	C	Basic Electrical Engineering	2	0	0	2	Basic Electrical Engineering Lab	0	0	2	1	Basic Electronics	2	0	0	2	Basic Electronics Lab	0	0	2	1	Course Title	L	T	P	C	Basic Electrical and Electronics Engineering	3	0	0	3	Basic Electrical and Electronics Engineering Lab	0	0	2	1
Course Title	L	T	P	C																																					
Basic Electrical Engineering	2	0	0	2																																					
Basic Electrical Engineering Lab	0	0	2	1																																					
Basic Electronics	2	0	0	2																																					
Basic Electronics Lab	0	0	2	1																																					
Course Title	L	T	P	C																																					
Basic Electrical and Electronics Engineering	3	0	0	3																																					
Basic Electrical and Electronics Engineering Lab	0	0	2	1																																					

*Mr. Anu*

- 7) Bachelor of Technology in Computer Science and Engineering with Specialization in Bioinformatics
- 8) Bachelor of Technology in Computer Science and Engineering with Specialization in Block Chain Technology
- 9) Bachelor of Technology in Computer Science and Engineering with Specialization in Cyber Physical Systems
- 10) Bachelor of Technology in Computer Science and Engineering with Specialization in Data Science
- 11) Bachelor of Technology in Computer Science and Engineering with Specialization in Information Security
- 12) Bachelor of Technology in Computer Science and Engineering with Specialization in Internet of Things
- 13) Bachelor of Technology in Electronics and Instrumentation Engineering
- 14) Bachelor of Technology in Electrical and Electronics Engineering
- 15) Bachelor of Technology in Electronics and Communication Engineering
- 16) Bachelor of Technology in Electronics and Communication Engineering with Specialization in Biomedical Engineering
- 17) Bachelor of Technology in Electronics and Computer Engineering
- 18) Bachelor of Technology in Fashion Technology
- 19) Bachelor of Technology in Information Technology
- 20) Bachelor of Technology in Mechanical Engineering
- 21) Bachelor of Technology in Mechanical with Specialization in Automotive Engineering
- 22) Bachelor of Technology in Mechanical Engineering with Specialization in Electrical Vehicles
- 23) Bachelor of Technology in Mechanical Engineering with Specialization in Manufacturing Engineering
- 24) Bachelor of Technology in Mechatronics and Automation
- 25) Five Year Integrated Master of Technology in Construction Technology and Management

The revised programme credit structure and curriculum are enclosed as Annexure 2.

(Annexure 2)

The Academic Council considered and approved the same.

Item 67/4.1

**To consider and approve the course contents for the courses of Bachelor of Technology programmes and Five Year Integrated Master of Technology in Construction Technology and Management.**

Engineering Sciences						
Course Code	Course Title	L	T	P	C	Prerequisite
BEEE102L	Basic Electrical and Electronics Engineering	3	0	0	3	NIL
BEEE102P	Basic Electrical and Electronics Engineering Lab	0	0	2	1	NIL
IEEE102L	Basic Electrical and Electronics Engineering	3	0	0	3	NIL
IEEE102P	Basic Electrical and Electronics Engineering Lab	0	0	2	1	NIL

(Annexure 3)


The Academic Council considered and approved the same.

Item 67/4.2


**To consider and approve the course contents for the courses of Bachelor of Technology in Biotechnology.**

Discipline Core Course						
Course Code	Course Title	L	T	P	C	Prerequisite
BBIT209L	Molecular Biology	3	0	0	3	BBIT202L, BBIT202P, BBIT204L BBIT204P
BBIT209P	Molecular Biology Lab	0	0	4	2	BBIT202L, BBIT202P, BBIT204L BBIT204P

	BBIT328L	Downstream Processing	3	0	0	3	BBIT301L, BBIT301P
	BBIT328P	Downstream Processing Lab	0	0	4	2	BBIT301L, BBIT301P
<b>(Annexure 4)</b>							
<b>The Academic Council considered and approved the same.</b>							
Item 67/4.3	<b>To consider and approve the course contents for the course of Bachelor of Technology in Information and Technology.</b>						
<b>Discipline Core Course</b>							
Course Code	Course Title	L	T	P	C	Prerequisite	
BITE411L	Big Data Analytics	3	0	0	3	BITE302L, BITE302P	
<b>(Annexure 5)</b>							
<b>The Academic Council considered and approved the same.</b>							
Item 67/4.4	<b>To consider and approve the course contents for the courses of Bachelor of Technology in Electronics and Communication Engineering and Bachelor of Technology in Electronics and Communication Engineering with Specialization in Biomedical Engineering.</b>						
<b>Discipline Core Course</b>							
Course Code	Course Title	L	T	P	C	Prerequisite	
BECE317L	Wireless and Mobile Communications	3	0	0	3	BECE306L, BECE306P	
BECE317P	Wireless and Mobile Communications Lab	0	0	2	1	BECE306L, BECE306P	
BECE318L	Optical Fiber Communications	3	0	0	3	BECE306L, BECE306P	
BECE318P	Optical Fiber Communications Lab	0	0	2	1	BECE306L, BECE306P	
<b>(Annexure 6)</b>							
<b>The Academic Council considered and approved the same.</b>							
Item 67/4.5	<b>To consider and approve the course contents for the course of Bachelor of Technology in Electronics and Computer Engineering.</b>						
<b>Discipline Core Course</b>							
Course Code	Course Title	L	T	P	C	Prerequisite	
BECM304L	Principles of Communication Systems	2	0	0	2	BECE206L, BECE206P	
<b>(Annexure 7)</b>							
<b>The Academic Council considered and approved the same.</b>							
Item 67/4.6	<b>To consider and approve the course contents for the courses of Bachelor of Technology in Electrical and Electronics Engineering.</b>						
<b>Discipline Core Course</b>							
Course Code	Course Title	L	T	P	C	Prerequisite	
BEEE215L	DC Machines and Transformers	2	0	0	2	BEEE102L, BEEE102P, BEEE202L	



	BEEE215P	DC Machines and Transformers Lab	0	0	2	1	BEEE102L, BEEE102P, BEEE202L
	BEEE312L	AC Machines	2	0	0	2	BEEE215L, BEEE215P
	BEEE312P	AC Machines Lab	0	0	2	1	BEEE215L, BEEE215P
	<b>(Annexure 8)</b>						
	<b>The Academic Council considered and approved the same.</b>						
Item 67/4.7	<b>To consider and approve the course contents for the courses of Bachelor of Technology in Electronics and Instrumentation Engineering.</b>						
	<b>Discipline Core Course</b>						
	Course Code	Course Title	L	T	P	C	Prerequisite
	BEIE403L	Virtual Instrumentation	1	0	0	1	BEIE201L, BEIE201P
	BEIE403P	Virtual Instrumentation Lab	0	0	2	1	BEIE201L, BEIE201P
	<b>(Annexure 9)</b>						
	<b>The Academic Council considered and approved the same.</b>						
Item 67/4.8	<b>To consider and approve the course contents for the course of Bachelor of Technology in Mechanical Engineering and its Specialization programmes.</b>						
	<b>Discipline-Linked Engineering Sciences</b>						
	Course Code	Course Title	L	T	P	C	Prerequisite
	BMEE330L	Control Systems	3	0	0	3	NIL
	<b>(Annexure 10)</b>						
	<b>The Academic Council considered and approved the same.</b>						
Item 67/4.9	<b>To consider and approve the course contents for the course of Bachelor of Technology in Computer Science and Engineering and its Specialization programmes.</b>						
	<b>Discipline Core Courses</b>						
	Course Code	Course Title	L	T	P	C	Prerequisite
	BCSE203E	Web Programming	1	0	4	3	NIL
	<b>(Annexure 11)</b>						
	<b>The Academic Council considered and approved the same.</b>						
Item 67/5	<b>To consider and approve the list of graduands from Vellore Campus for the award of Undergraduate and Postgraduate degrees.</b>						
	<b>(Annexure 12)</b>						
	<b>The Academic Council considered and approved the same.</b>						
Item 67/6	<b>To consider and approve the list of graduands from Chennai Campus for the award of Undergraduate and Postgraduate degrees.</b>						
	<b>(Annexure 13)</b>						
	<b>The Academic Council considered and approved the same.</b>						
Item 67/7	<b>To consider and approve the list of graduands from Vellore and Chennai Campus for the award of Research degrees.</b>						



	<b>The Academic Council considered and approved the same.</b>																																				
Item 67/8	<p><b>To consider and approve the Regulations for the Programmes offered under Blended Learning Mode.</b></p> <p>Existing Academic Regulations will be followed for the programmes offered under Blended Learning Mode with the following two exceptions:</p> <p>a) <b><u>Grading Policy:</u></b> Only Absolute Grading Policy will be followed for the programmes offered under Blended Learning Mode.</p> <p>b) <b><u>Arrear Examination</u></b> Student who fails to clear the course can register for arrear examination during the subsequent semester. Arrear examination fee will be as per the University norms existing at the time of Arrear examination registration.</p> <p><b>The Academic Council considered and approved the same.</b></p>																																				
Item 67/9	<p><b>To consider and approve the change in the Internal Assessment modalities for 3 Year Undergraduate Programmes.</b></p> <ul style="list-style-type: none"> <li>It is proposed to change the internal assessment components from weekly assessments (60 %) to CAT – I (15%), CAT – II (15%) and Assignment(s) / Quizzes / Project (30%) for all the three years UG Programmes from the Academic Year 2022 – 23 onwards.</li> </ul> <p><b>The Academic Council considered and approved the same with the suggestion to give liberty to the faculty members to fix the assessment methodology based on the courses.</b></p>																																				
Item 67/10	<p><b>To consider and approve the inclusion of one hundred and forty (140) NPTEL Courses Under University Elective Category. Total four hundred and seventy three (473) NPTEL Courses have been already approved in the 53<sup>rd</sup> meeting of the Academic Council held on 13<sup>th</sup> December 2018 [Item No. 53.2.2], 57<sup>th</sup> meeting of the Academic Council held on 5<sup>th</sup> December 2019 [Item No. 57.2.3], 58<sup>th</sup> meeting of the Academic Council held on 26<sup>th</sup> February 2020 [Item No.58.2.4], 64<sup>th</sup> meeting of the Academic Council held on 16<sup>th</sup> December 2021 [Item No. 64/13] and 65<sup>th</sup> meeting of the Academic Council held on 17<sup>th</sup> March 2022 [Item No. 65/6].</b></p> <table border="1"> <thead> <tr> <th>Course Code</th> <th>Course Title</th> <th>Duration</th> <th>Credits</th> </tr> </thead> <tbody> <tr> <td>MOC2370</td> <td>Safety in Construction</td> <td>08 weeks</td> <td>2</td> </tr> <tr> <td>MOC2371</td> <td>Space Flight Mechanics</td> <td>12 weeks</td> <td>3</td> </tr> <tr> <td>MOC2372</td> <td>Nuclear and particle physics</td> <td>12 weeks</td> <td>3</td> </tr> <tr> <td>MOC2373</td> <td>Nanotechnology: Science and Applications</td> <td>08 weeks</td> <td>2</td> </tr> <tr> <td>MOC2374</td> <td>Selection Of Nanomaterials For Energy Harvesting and Storage Applications</td> <td>4 Weeks</td> <td>1</td> </tr> <tr> <td>MOC2375</td> <td>Biomedical Nanotechnology</td> <td>4 Weeks</td> <td>1</td> </tr> <tr> <td>MOC2376</td> <td>Solar Photovoltaics: Fundamental, Technology and Applications</td> <td>08 weeks</td> <td>2</td> </tr> <tr> <td>MOC2377</td> <td>Cloud computing</td> <td>12 Weeks</td> <td>3</td> </tr> </tbody> </table>	Course Code	Course Title	Duration	Credits	MOC2370	Safety in Construction	08 weeks	2	MOC2371	Space Flight Mechanics	12 weeks	3	MOC2372	Nuclear and particle physics	12 weeks	3	MOC2373	Nanotechnology: Science and Applications	08 weeks	2	MOC2374	Selection Of Nanomaterials For Energy Harvesting and Storage Applications	4 Weeks	1	MOC2375	Biomedical Nanotechnology	4 Weeks	1	MOC2376	Solar Photovoltaics: Fundamental, Technology and Applications	08 weeks	2	MOC2377	Cloud computing	12 Weeks	3
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MOC2377	Cloud computing	12 Weeks	3																																		

MOC2378	Aircraft Structures - I	8 Weeks	2
MOC2379	Introduction To CFD	12 Weeks	3
MOC2380	Space Flight Mechanics	12 Weeks	3
MOC2381	Dairy And Food Process And Products Technology	12 Weeks	3
MOC2382	Farm Machinery	12 Weeks	3
MOC2383	Fundamentals Of Food Process Engineering	12 Weeks	3
MOC2384	Micro Irrigation Engineering	12 Weeks	3
MOC2385	Architectural Conservation And Historic Preservation	8 Weeks	2
MOC2386	Building Materials And Composites	8 Weeks	2
MOC2387	Urban Land use And Transportation Planning	12 Weeks	3
MOC2388	Urban Utilities Planning: Water Supply, Sanitation and Drainage	12 Weeks	3
MOC2389	Industrial Biotechnology	12 Weeks	3
MOC2390	Immunology	12 Weeks	3
MOC2391	Wildlife Ecology	12 Weeks	3
MOC2392	Introduction to Biomedical Imaging Systems	12 Weeks	3
MOC2393	Environmental Biotechnology	12 Weeks	3
MOC2394	Fundamentals of Protein Chemistry	12 Weeks	3
MOC2395	Animal Physiology	12 Weeks	3
MOC2396	Introductory Field Structural Geology	4 Weeks	1
MOC2397	Theory of Elasticity	12 Weeks	3
MOC2398	Sustainable Transportation systems	12 Weeks	3
MOC2399	Geotechnical Engineering Laboratory	4 weeks	1
MOC2400	Dynamics of Structures	12 Weeks	3
MOC2401	Introduction to Engineering Seismology	12 Weeks	3
MOC2402	Design Of Reinforced Concrete Structures	12 Weeks	3
MOC2403	Design Of Steel Structures	12 Weeks	3
MOC2404	Ground Improvement	12 Weeks	3
MOC2405	Integrated Waste Management For A Smart City	12 Weeks	3
MOC2406	Introduction To Multimodal Urban Transportation Systems (MUTS)	12 Weeks	3
MOC2407	Matrix Method Of Structural Analysis	8 Weeks	2
MOC2408	Reinforced Concrete Road Bridges	4 Weeks	1
MOC2409	Soil Mechanics/Geotechnical Engineering I	12 Weeks	3
MOC2410	Wastewater Treatment And Recycling	12 Weeks	3
MOC2411	Earth Sciences For Civil Engineering Part - I & II	8 Weeks	2
MOC2412	Earthquake Geology:A tool for Seismic Hazard Assessment	12 Weeks	3
MOC2413	Finite Element Method and Computational Structural Dynamics	12 Weeks	3
MOC2414	Geotechnical Engineering-II	12 Weeks	3
MOC2415	Structural Geology	12 Weeks	3
MOC2416	Radiogenic Isotope Geology	12 Weeks	3
MOC2417	Principles and Practices of Process Equipment and Plant Design	12 Weeks	3
MOC2418	Introduction to interfacial waves	12 Weeks	3
MOC2419	Real-Time Systems	12 Weeks	3
MOC2420	Secure Computation: Part II	12 Weeks	3

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MOC2421	Algorithmic Game Theory	12 Weeks	3
MOC2422	Computational Number Theory and Algebra	12 Weeks	3
MOC2423	Getting Started with Competitive Programming	12 Weeks	3
MOC2424	Natural Language Processing	12 Weeks	3
MOC2425	Object Oriented Analysis And Design	8 Weeks	2
MOC2426	Circular dichroism (CD) and Mossbauer spectroscopy for chemists	12 Weeks	3
MOC2427	Biological Inorganic Chemistry	12 Weeks	3
MOC2428	Introduction To Polymer Science	8 Weeks	2
MOC2429	Chemistry and Physics of Surfaces and Interfaces	8 Weeks	2
MOC2430	NMR spectroscopy for Structural Biology	12 Weeks	3
MOC2431	Analytical Chemistry	12 Weeks	3
MOC2432	Stereochemistry	8 Weeks	2
MOC2433	Control and Tuning Methods in Switched Mode Power Converters	12 Weeks	3
MOC2434	Power System Protection	12 Weeks	3
MOC2435	Signal Processing for mm Wave communication for 5G and beyond	12 Weeks	3
MOC2436	Electrical Machines - I	12 Weeks	3
MOC2437	Electrical Measurement And Electronic Instruments	12 Weeks	3
MOC2438	Analog Communication	12 Weeks	3
MOC2439	Digital Speech Processing	8 Weeks	2
MOC2440	Modern Digital Communication Techniques	12 Weeks	3
MOC2441	Power System Analysis	12 Weeks	3
MOC2442	Introduction to Semiconductor Devices	12 Weeks	3
MOC2443	Accreditation And Outcome Based Learning	8 Weeks	2
MOC2444	Globalization And Culture	8 Weeks	2
MOC2445	Great Experiments In Psychology	4 Weeks	1
MOC2446	Spoken Sanskrit: Basic and Intermediate Levels	12 Weeks	3
MOC2447	Urbanization and Environment	8 Weeks	2
MOC2448	Water Society And Sustainability	4 Weeks	1
MOC2449	Introducing Modern Western Art: Movements and Artists	4 Weeks	1
MOC2450	Introduction to Indian Art - An appreciation	4 Weeks	1
MOC2451	Elements of Visual Representation	8 Weeks	2
MOC2452	Indian Art: Materials, Techniques and Artistic Practices	12 Weeks	3
MOC2453	Public Speaking	12 Weeks	3
MOC2454	An Introduction to Indian Literary Theory	8 Weeks	2
MOC2455	Partition of India in Print Media and Cinema	12 Weeks	3
MOC2456	Literary and Cultural Disability Studies: An Exploration	12 Weeks	3
MOC2457	Fundamental Concepts in Sociolinguistics	12 Weeks	3
MOC2458	Spatial Statistics and Spatial Econometrics	12 Weeks	3
MOC2459	Economics of Banking and Finance Markets	12 weeks	3
MOC2460	Introduction to Law on Electricity	8 Weeks	2
MOC2461	Legal and Regulatory Issues in Biotechnology	4 Weeks	1
MOC2462	Matrix Solver	12 Weeks	3
MOC2463	Mathematical Methods in Physics 2	8 Weeks	2
MOC2464	Geometry of Vision	4 Weeks	1

MOC2465	Introductory Course In Real Analysis	12 Weeks	3
MOC2466	Mathematical Methods For Boundary Value Problems	4 Weeks	1
MOC2467	Manufacturing Processes - Casting And Joining	4 Weeks	1
MOC2468	Computational Fluid Dynamics and Heat Transfer	12 Weeks	3
MOC2469	Advanced Fluid Mechanics	12 Weeks	3
MOC2470	Concepts Of Thermodynamics	12 Weeks	3
MOC2471	Energy Conservation And Waste Heat Recovery	12 Weeks	3
MOC2472	Engineering Drawing And Computer Graphics	12 Weeks	3
MOC2473	Heat Exchangers: Fundamentals And Design Analysis	12 Weeks	3
MOC2474	Mechanism And Robot Kinematics	8 Weeks	2
MOC2475	Biomechanics of Joints and Orthopaedic Implants	8 Weeks	2
MOC2476	Design of Mechatronic Systems	12 Weeks	3
MOC2477	Mechanics and Control of Robotic Manipulators	8 Weeks	2
MOC2478	Dynamics and Control of Mechanical Systems	12 Weeks	3
MOC2479	Advanced Thermodynamics and Combustion	12 Weeks	3
MOC2480	Production Technology: Theory And Practice	12 Weeks	3
MOC2481	Management Information System	12 Weeks	3
MOC2482	Patent Search and Analysis	8 Weeks	2
MOC2483	Principles Of Management	12 Weeks	3
MOC2484	Soft Skills For Business Negotiations And Marketing Strategies	12 Weeks	3
MOC2485	Stress Management	4 Weeks	1
MOC2486	Automation in Production Systems and Management	12 Weeks	3
MOC2487	Commodity Derivatives And Risk Management	8 Weeks	2
MOC2488	Corporate Finance	8 Weeks	2
MOC2489	Customer Relationship Management	8 Weeks	2
MOC2490	Decision Support System For Managers	12 Weeks	3
MOC2491	Gender Justice And Workplace Security	4 Weeks	1
MOC2492	Industrial Safety Engineering	12 Weeks	3
MOC2493	Mechanical Behavior of Materials	12 Weeks	3
MOC2494	Techniques of Materials Characterization	12 Weeks	3
MOC2495	Advanced Materials And Processes	12 Weeks	3
MOC2496	Surface Mining Technology	12 Weeks	3
MOC2497	Underground Mining of Metalliferous deposits	12 Weeks	3
MOC2498	Mine Closure and Sustainability Planning	12 Weeks	3
MOC2499	Water Economics And Governance	12 Weeks	3
MOC2500	Numerical Ship and Offshore Hydrodynamics	12 Weeks	3
MOC2501	Mathematical Methods In Physics -I	12 Weeks	3
MOC2502	Solid State Physics	12 Weeks	3
MOC2503	Upstream LNG Technology	12 Weeks	3
MOC2504	Introduction to Astrophysical Fluids	12 Weeks	3
MOC2505	Bonds and Bands in Solids	12 Weeks	3
MOC2506	Foundations of Classical Electrodynamics	12 Weeks	3
MOC2507	Economics of Banking and Finance Markets	12 weeks	3
MOC2508	Security Analysis & Portfolio Management	12 weeks	3
MOC2509	Programming In Modern C++	12 weeks	3

The Academic Council deferred the above item with the suggestion that Dean Academics may analyze and approve the NPTEL course based on the requirement of the students.

Item 67/11

To consider and approve the revised programme credit structure, curriculum and course contents of Master of Technology in Automotive Engineering.

The curriculum was approved in the 40<sup>th</sup> meeting of the Academic Council held on 18<sup>th</sup> March 2016 [Item No. 40/3.5.b].

Discipline Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
MAUE501L	Automotive Body and Chassis Systems	3	0	0	3	NIL
MAUE502L	Engine Combustion and Emission	3	0	0	3	NIL
MAUE502P	Engine Combustion and Emission Lab	0	0	2	1	NIL
MAUE503L	Automotive Electrical and Electronics	3	0	0	3	NIL
MAUE503P	Automotive Electrical and Electronics Lab	0	0	2	1	NIL
MAUE504L	Automotive Transmission System	3	0	0	3	NIL
MAUE505L	Vehicle Dynamics	3	0	0	3	NIL
MAUE505P	Vehicle Dynamics Lab	0	0	2	1	NIL
MAUE506L	Hybrid Electric Vehicles	3	0	0	3	NIL
MMAT502L	Advanced Mathematical Methods	3	0	0	3	NIL
Discipline Electives						
MAUE601L	Engine Design and Development	3	0	0	3	NIL
MAUE602L	Battery and Fuel Cell	3	0	0	3	NIL
MAUE603L	Vehicle and Engine Testing	3	0	0	3	NIL
MAUE604L	Vehicle Maintenance and Diagnostics	3	0	0	3	NIL
MAUE605L	Vehicle Aerodynamics	3	0	0	3	NIL
MAUE606L	Vehicle Crashworthiness	3	0	0	3	NIL
MAUE607L	Design of Vehicle Drivelines	3	0	0	3	NIL
MAUE608L	Noise, Vibration and Harshness	3	0	0	3	NIL
MAUE608P	Noise, Vibration and Harshness Lab	0	0	2	1	NIL
MAUE609L	Computational Fluid Flow and Heat Transfer	3	0	0	3	NIL
MAUE611L	Vehicle Safety and Lighting	3	0	0	3	NIL
MCDM504L	Finite Element Methods	3	0	0	3	NIL
MCDM504P	Finite Element Methods Lab	0	0	2	1	NIL
Project and Internship						
MAUE696J	Study Oriented Project				02	NIL
MAUE697J	Design Project				02	NIL
MAUE698J	Internship I/ Dissertation I				10	NIL
MAUE699J	Internship II/ Dissertation II				12	NIL

(Annexure 15)

The Academic Council considered and approved the same.

Item 67/12

To consider and approve the revised programme credit structure, curriculum and course contents of Master of Technology in CAD / CAM.

The curriculum was approved in the 40<sup>th</sup> meeting of the Academic Council held on 18<sup>th</sup> March 2016 [Item No. 40/3.5.e].

Discipline Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
MCDM501L	Advanced Mechanics of Solids	2	1	0	3	NIL
MCDM502L	Applied Materials Engineering	3	0	0	3	NIL
MCDM503L	Computer Graphics and Geometric Modelling	2	0	0	2	NIL

MCDM503P	Computer Graphics and Geometric Modelling Lab	0	0	2	1	NIL
MCDM504L	Finite Element Methods	3	0	0	3	NIL
MCDM504P	Finite Element Methods Lab	0	0	2	1	NIL
MCDM505L	Integrated Manufacturing Systems	3	0	0	3	NIL
MCDM505P	Integrated Manufacturing Systems Lab	0	0	2	1	NIL
MCDM506L	Advanced Vibration Engineering	3	0	0	3	NIL
MMAE503L	Additive Manufacturing Technology	3	0	0	3	NIL
MMAE503P	Additive Manufacturing Technology Lab	0	0	2	1	NIL
<b>Discipline Electives</b>						
MAUE505L	Vehicle Dynamics	3	0	0	3	NIL
MAUE505P	Vehicle Dynamics Lab	0	0	2	1	NIL
MAUE605L	Vehicle Aerodynamics	3	0	0	3	NIL
MMAE608L	Design and Analysis of Experiments	2	1	0	3	NIL
MCDM601L	Advanced Finite Element Methods	3	0	0	3	NIL
MCDM602L	Design For Manufacture and Assembly	3	0	0	3	NIL
MCDM603L	Product Design and Life Cycle Management	3	0	0	3	NIL
MCDM604L	Fracture Mechanics	3	0	0	3	NIL
MCDM605L	Manufacturing and Mechanics of Composites Materials	3	0	0	3	NIL
MCDM606L	Optimization Methods	3	0	0	3	NIL
MCDM607L	Computational and Experimental Vibration Analysis and Control	3	0	0	3	NIL
MCDM607P	Computational and Experimental Vibration Analysis and Control Lab	0	0	2	1	NIL
MCDM608L	Computational Fluid Dynamics	3	0	0	3	NIL
MCDM608P	Computational Fluid Dynamics Lab	0	0	2	1	NIL
MCDM609L	Design Thinking and Innovation	3	0	0	3	NIL
MCDM610L	Machine Fault Diagnostics	3	0	0	3	NIL
MCDM611L	Computer Aided Process Planning	3	0	0	3	NIL
MCDM612L	Advanced Manufacturing Technology	3	0	0	3	NIL
MCDM613L	Statistics and Quality Management	3	0	0	3	NIL
<b>Project and Internship</b>						
MCDM696J	Study Oriented Project				02	NIL
MCDM697J	Design Project				02	NIL
MCDM698J	Internship I/ Dissertation I				10	NIL
MCDM699J	Internship II/ Dissertation II				12	NIL

**(Annexure 16)**

The Academic Council considered and approved the same.

Item 67/13

To consider and approve the revised programme credit structure, curriculum and course contents of Master of Technology in Manufacturing Engineering.

The curriculum was approved in the 40<sup>th</sup> meeting of the Academic Council held on 18<sup>th</sup> March 2016 [Item No. 40/3.5.a].

<b>Discipline Core Courses</b>						
Course Code	Course Title	L	T	P	C	Prerequisite
MMAE501L	Advanced Materials and Characterization	3	0	0	3	NIL
MMAE502L	Finite Element Methods in Manufacturing	3	0	0	3	NIL
MMAE502P	Finite Element Methods in Manufacturing Lab	0	0	2	1	NIL
MMAE503L	Additive Manufacturing Technology	3	0	0	3	NIL
MMAE503P	Additive Manufacturing Technology Lab	0	0	2	1	NIL
MMAE504L	Theory of Metal Forming	3	0	0	3	NIL
MMAE505L	Mechatronics and Automation	3	0	0	3	NIL
MMAE505P	Mechatronics and Automation Lab	0	0	2	1	NIL
MMAE506L	Modern Machining Processes	3	0	0	3	NIL
MMAE507L	Computer Integrated Manufacturing	3	0	0	3	NIL



Discipline Electives						
MMAE601L	Metrology and Non-destructive Testing	3	0	0	3	NIL
MMAE602L	Optimization Techniques	2	1	0	3	NIL
MMAE603L	Micro and Nano Manufacturing	3	0	0	3	NIL
MMAE604L	Sustainable Manufacturing	3	0	0	3	NIL
MMAE605L	Supply Chain and Logistics Management	3	0	0	3	NIL
MMAE606L	Maintenance Engineering	3	0	0	3	NIL
MMAE607L	Manufacturing Information Systems	3	0	0	3	NIL
MMAE608L	Design and Analysis of Experiments	2	1	0	3	NIL
MMAE609L	Advanced Tool Engineering	3	0	0	3	NIL
MMAE610L	Casting and Welding Technology	3	0	0	3	NIL
MMAE610P	Casting and Welding Technology Lab	0	0	2	1	NIL
MMAE611L	Quality and Reliability Engineering	3	0	0	3	NIL
Project and Internship						
MMAE696J	Study Oriented Project				02	NIL
MMAE697J	Design Project				02	NIL
MMAE698J	Internship I/ Dissertation I				10	NIL
MMAE699J	Internship II/ Dissertation II				12	NIL

**(Annexure 17)**

The Academic Council considered and approved the same.

Item 67/14

To consider and approve the revised programme credit structure, curriculum and course contents of Master of Technology in Mechatronics.

The curriculum was approved in the 40<sup>th</sup> meeting of the Academic Council held on 18<sup>th</sup> March 2016 [Item No. 40/3.5.f].

Discipline Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
MMHA501L	Advanced Sensors and Instrumentation	3	0	0	3	NIL
MMHA501P	Advanced Sensors and Instrumentation Lab	0	0	2	1	NIL
MMHA502L	Actuators and Drives	3	0	0	3	NIL
MMHA503L	Robot dynamics and Programming	3	0	0	3	NIL
MMHA503P	Robot dynamics and Programming Lab	0	0	2	1	NIL
MMHA504L	System Design and Control	3	0	0	3	NIL
MMHA505L	Industrial Controllers	3	0	0	3	NIL
MMHA505P	Industrial Controllers Lab	0	0	2	1	NIL
MMHA506L	Advanced Control Systems	3	0	0	3	NIL
MMHA507L	Industrial Process Automation	2	0	0	2	NIL
MMHA507P	Industrial Process Automation Lab	0	0	2	1	NIL
Discipline Electives						
MMHA601L	Machine Vision Systems	3	0	0	3	NIL
MMHA602L	Mobile and Autonomous Robots	3	0	0	3	NIL
MMHA603L	MEMS and Microsystems	3	0	0	3	NIL
MMHA604L	Data acquisition and Digital Signal Processing	3	0	0	3	NIL
MMHA605L	Embedded Systems	3	0	0	3	NIL
MMHA606L	Autotronics and Vehicle Intelligence	3	0	0	3	NIL
MMHA607L	Intelligent Systems	3	0	0	3	NIL
MMHA608L	Wireless Sensor Networks	2	1	0	3	NIL
MMHA609L	Virtual Reality and Haptics	3	0	0	3	NIL
MMHA610L	Condition Monitoring Techniques	3	0	0	3	NIL
MMHA611L	Bio-Mechatronics	3	0	0	3	NIL
MMHA612L	Internet of Things and Smart Manufacturing	3	0	0	3	NIL
MMHA613L	Manufacturing Automation	3	0	0	3	NIL
MMHA613P	Manufacturing Automation Lab	0	0	2	1	NIL
MMHA614L	Fluid Power System Design	3	0	0	3	NIL

MMHA614P	Fluid Power System Design Lab	0	0	2	1	NIL
<b>Project and Internship</b>						
MMHA696J	Study Oriented Project				02	NIL
MMHA697J	Design Project				02	NIL
MMHA698J	Internship I/ Dissertation I				10	NIL
MMHA699J	Internship II/ Dissertation II				12	NIL

(Annexure 18)

The Academic Council considered and approved the same.

Item 67/15

To consider and approve the revised programme credit structure, curriculum and course contents of Master of Technology in Automotive Electronics.

The curriculum was approved in the 40<sup>th</sup> meeting of the Academic Council held on 18<sup>th</sup> March 2016 [Item No. 40/10].

Discipline Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
MAME501L	Sensors and Engine Management Systems	3	0	0	3	NIL
MAME502L	Microcontrollers for Vehicular Systems	3	0	0	3	NIL
MAME502P	Microcontrollers for Vehicular Systems Lab	0	0	2	1	NIL
MAME503L	Vehicle Control Systems	3	0	0	3	NIL
MAME504L	Automotive Networking and Protocols	3	0	0	3	NIL
MAME504P	Automotive Networking and Protocols Lab	0	0	2	1	NIL
MAME505L	Electric and Electronic Power Systems for Vehicles	3	0	0	3	NIL
MAME506L	Automotive Power Electronics and Motor Drives	3	0	0	3	NIL
MAME506P	Automotive Power Electronics and Motor Drives Lab	0	0	2	1	NIL
MAME507L	Alternative Drives, Traction and Controls	3	0	0	3	MAME505L
Discipline Electives						
MAME601L	Data Acquisition and Signal Conditioning	3	0	0	3	NIL
MAME601P	Data Acquisition and Signal Conditioning Lab	0	0	2	1	NIL
MAME602L	AUTOSAR and ISO Standards for Automotive Systems	2	0	0	2	NIL
MAME603L	Soft Computing Techniques for Automotive Applications	3	0	0	3	NIL
MAME604L	Automotive EMI and EMC Standards	3	0	0	3	NIL
MAME605L	Vehicular Information and Communication Systems	3	0	0	3	NIL
MAME606L	Parallel Programming using Multi cores and Graphical Programming Units	3	0	0	3	NIL
MAME607L	Digital Signal Processing and its Applications	3	0	0	3	NIL
MAME607P	Digital Signal Processing and its Applications Lab	0	0	2	1	NIL
MAME608L	Open Source Hardware and Software System Design	3	0	0	3	NIL
MAME609L	Machine Vision System for Automotive	3	0	0	3	NIL
MAME609P	Machine Vision System for Automotive Lab	0	0	2	1	NIL
MAME610L	Automotive Fault Diagnostics	3	1	0	4	NIL
MAME611L	Emission Control and Diagnosis	3	0	0	3	NIL
MAME612L	Vehicle Safety Systems	2	0	0	2	NIL
MAME613L	Vehicle Bodies	2	0	0	2	NIL
MAME614L	Engine Peripherals	2	0	0	2	NIL
MAME615L	Vehicle Security and Comfort Systems	3	0	0	3	NIL
Project and Internship						
MAME696J	Study Oriented Project				02	NIL

MAME697J	Design Project				02	NIL
MAME698J	Internship I/ Dissertation I				10	NIL
MAME699J	Internship II/ Dissertation II				12	NIL

(Annexure 19)

The Academic Council considered and approved the same.

Item 67/16

To consider and approve the revised programme credit structure, curriculum and course contents of Master of Technology in Biomedical Engineering.

The curriculum was approved in the 40<sup>th</sup> meeting of the Academic Council held on 18<sup>th</sup> March 2016 [Item No. 40/6.3.f].

Discipline Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
MBML501N	Anatomy and Physiology	1	0	0	1	NIL
MBML502N	Basic Electronics and Measurements	1	0	0	1	NIL
MBML503L	Biomedical Sensors an Data Acquisition Technique	2	0	0	2	NIL
MBML503P	Biomedical Sensors an Data Acquisition Techniques Lab	0	0	2	1	NIL
MBML504L	Bio-signal Processing and Analysis	3	0	0	3	NIL
MBML504P	Bio-signal Processing and Analysis Lab	0	0	2	1	NIL
MBML505L	Embedded Systems and IoT for Biomedical Applications	3	0	0	3	NIL
MBML505P	Embedded Systems and IoT for Biomedical Applications Lab	0	0	2	1	NIL
MBML506L	Medical Image Processing	3	0	0	3	NIL
MBML506P	Medical Image Processing Lab	0	0	2	1	NIL
MBML507L	Biomedical Equipment	3	0	0	3	NIL
MBML508L	Medical Imaging Techniques	3	0	0	3	NIL
MBML509L	Health Care Management	3	0	0	3	NIL
Discipline Electives						
MBML601L	Rehabilitation Engineering	3	0	0	3	NIL
MBML602L	Biomaterials	3	0	0	3	NIL
MBML603L	Biomechanics	3	0	0	3	NIL
MBML604L	Data Mining in Healthcare	3	0	0	3	NIL
MBML605L	Big Data Analytics in Medical Applications	3	0	0	3	NIL
MITS602L	Micro and Nano Fluidics	3	0	0	3	NIL
MBML606L	MEMS and NEMS for Biomedical Applications	3	0	0	3	NIL
MBML607L	Physiological Control Systems	3	0	0	3	NIL
MBML608L	Artificial Neural Network	3	0	0	3	NIL
MBML609L	Networking and Information System in Medicine	3	0	0	3	NIL
MBML610L	Medical Robotics	3	0	0	3	NIL
MBML611L	Digital Healthcare and Medical Standards	3	0	0	3	NIL
Project and Internship						
MBML696J	Study Oriented Project				02	NIL
MBML697J	Design Project				02	NIL
MBML698J	Internship I/ Dissertation I				10	NIL
MBML699J	Internship II/ Dissertation II				12	NIL

(Annexure 20)

The Academic Council considered and approved the same.

Item 67/17

To consider and approve the revised programme credit structure, curriculum and course contents of Master of Technology in Communication Engineering.

The curriculum was approved in the 40<sup>th</sup> meeting of the Academic Council held on 18<sup>th</sup> March 2016 [Item No. 40/6.3.a].

Discipline Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
MECE501L	Mathematics for Communication Engineering	3	0	0	3	NIL
MECE502L	Advanced Digital Communication	3	0	0	3	NIL
MECE502P	Advanced Digital Communication Lab	0	0	2	1	NIL
MECE503L	Advanced Digital Signal Processing	3	0	0	3	NIL
MECE503P	Advanced Digital Signal Processing Lab	0	0	2	1	NIL
MECE504L	RF and Microwave Circuit Design	3	0	0	3	NIL
MECE504P	RF and Microwave Circuit Design Lab	0	0	2	1	NIL
MECE505L	Fiber Optic Communication and Networks	3	0	0	3	NIL
MECE506L	High Performance Communication Networks	3	0	0	3	NIL
MECE507L	Modern Wireless Communication Systems	3	0	0	3	NIL
Discipline Electives						
MECE601L	Advances in Wireless Networks	2	0	0	2	NIL
MECE601P	Advances in Wireless Networks Lab	0	0	2	1	NIL
MECE602L	Advanced Antenna Engineering	3	0	0	3	NIL
MECE603L	Mobile Adhoc Networks	3	0	0	3	NIL
MECE604L	Modeling of Wireless Communication Systems	3	0	0	3	NIL
MECE605L	Modern Satellite Communication	3	0	0	3	NIL
MECE606L	Coding for MIMO Communication	3	0	0	3	NIL
MECE607L	Advanced Wireless Sensor Networks	2	0	0	2	NIL
MECE607P	Advanced Wireless Sensor Networks Lab	0	0	2	1	NIL
MECE608L	Microwave Integrated Circuits	3	0	0	3	NIL
MECE609L	Image processing and Feature Extraction	3	0	0	3	NIL
MECE610L	Multirate Systems	3	0	0	3	NIL
MECE611L	Adaptive Signal Processing	3	0	0	3	NIL
MECE612L	Optical Broadband Access Networks	3	0	0	3	NIL
MECE613L	RF MEMS	3	0	0	3	NIL
MECE614L	Foundations of Machine Learning	3	0	0	3	NIL
MECE615L	Information and Network Security	3	0	0	3	NIL
Project and Internship						
MECE696J	Study Oriented Project				02	NIL
MECE697J	Design Project				02	NIL
MECE698J	Internship I/ Dissertation I				10	NIL
MECE699J	Internship II/ Dissertation II				12	NIL

(Annexure 21)

The Academic Council considered and approved the same.

Item 67/18

To consider and approve the revised programme credit structure, curriculum and course contents of Master of Technology in Embedded Systems.

The curriculum was approved in the 40<sup>th</sup> meeting of the Academic Council held on 18<sup>th</sup> March 2016 [Item No. 40/6.3.b].

Discipline Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
MEDS501L	Embedded System Design	3	0	0	3	NIL
MEDS502L	Microcontroller Architecture and Organization	3	0	0	3	NIL
MEDS502P	Microcontroller Architecture and Organization Lab	0	0	2	1	NIL
MEDS503L	Embedded Programming	3	0	0	3	NIL
MEDS503P	Embedded Programming Lab	0	0	2	1	NIL
MEDS504L	In Vehicle Networking	3	0	0	3	NIL
MEDS505L	Real Time Operating System	3	0	0	3	NIL
MEDS505P	Real Time Operating System Lab	0	0	2	1	NIL
MEDS506L	Wireless and Mobile Communication	3	0	0	3	NIL



MEDS507L	Electronic Hardware System Design	2	0	0	2	NIL
MEDS507P	Electronic Hardware System Design Lab	0	0	2	1	NIL
<b>Discipline Electives</b>						
MEDS601L	Electromagnetic Interference and Compatibility in ESD	3	0	0	3	NIL
MEDS602L	Advanced Digital Image Processing	3	0	0	3	NIL
MEDS603L	Design and Analysis of Algorithms	3	0	0	3	NIL
MEDS604L	Embedded System design using FPGA	2	0	0	2	NIL
MEDS604P	Embedded System design using FPGA Lab	0	0	2	1	NIL
MEDS605L	Hardware Software Co-design	2	0	0	2	NIL
MEDS606L	Modern Automotive Electronics Systems	3	0	0	3	NIL
MAME602L	AUTOSAR and ISO Standards for Automotive Systems	2	0	0	2	NIL
MEDS608L	Intelligent IoT System Design and Architecture	2	0	0	2	NIL
MEDS608P	Intelligent IoT System Design and Architecture Lab	0	0	2	1	NIL
MEDS609L	Fault Tolerance and Dependable Systems	3	0	0	3	NIL
MEDS610L	Advanced Machine Learning and Deep Learning	2	0	0	2	NIL
MEDS610P	Advanced Machine Learning and Deep Learning Lab	0	0	2	1	NIL
MEDS611L	Parallel Processing and Computing	3	0	0	3	NIL
MEDS612L	Advanced Embedded Programming	3	0	0	3	NIL
MEDS607L	Advanced Processors and its Applications	2	0	0	2	NIL
MEDS607P	Advanced Processors and its Applications Lab	0	0	2	1	NIL
<b>Project and Internship</b>						
MEDS696J	Study Oriented Project				02	NIL
MEDS697J	Design Project				02	NIL
MEDS698J	Internship I/ Dissertation I				10	NIL
MEDS699J	Internship II/ Dissertation II				12	NIL

(Annexure 22)

The Academic Council considered and approved the same.

Item 67/19

To consider and approve the revised programme credit structure, curriculum and course contents of Master of Technology in Internet of Things and Sensor Systems.

The curriculum was approved in the 55<sup>th</sup> meeting of the Academic Council held on 13<sup>th</sup> June 2019 [Item No. 55/6.1].

<b>Discipline Core Courses</b>						
Course Code	Course Title	L	T	P	C	Prerequisite
MITS501L	Principles of Sensors and Signal Conditioning	2	0	0	2	NIL
MITS501P	Principles of Sensors and Signal Conditioning Lab	0	0	2	1	NIL
MITS502L	IoT Fundamentals and Architecture	2	0	0	2	NIL
MITS502P	IoT Fundamentals and Architecture Lab	0	0	4	2	NIL
MITS503P	Data Acquisition Lab	0	0	4	2	NIL
MITS504P	System Dynamics and Control Systems Lab	0	0	4	2	NIL
MITS505L	Microcontrollers for IoT Prototyping	3	0	0	3	NIL
MITS505P	Microcontrollers for IoT Prototyping Lab	0	0	2	1	NIL
MITS506L	Wireless Sensor Networks and IoT	3	0	0	3	NIL
MITS507L	Signal Processing and Data Analytics	3	0	0	3	NIL
MITS508L	Deep Learning - An Approach to Artificial Intelligence	3	0	0	3	NIL
<b>Discipline Electives</b>						
MITS601L	Flexible and Wearable Sensors	3	0	0	3	NIL
MITS602L	Micro and Nano Fluidics	3	0	0	3	NIL
MITS603L	Chemical and Environmental Sensor	3	0	0	3	NIL

MITS604L	Cloud and Fog Computing	3	0	0	3	NIL
MITS605L	IoT Security and Trust	3	0	0	3	NIL
MITS606L	IoT Applications and Web development	3	0	0	3	NIL
MITS607L	Micro Systems and Hybrid Technology	3	0	0	3	NIL
MITS608L	RF and Microwave Sensors	3	0	0	3	NIL
MITS609L	Biomedical sensors	3	0	0	3	NIL
MITS610L	Multi-disciplinary Product Development	3	0	0	3	NIL
MITS611L	Automotive Sensors and in-Vehicle Networking	3	0	0	3	NIL
MITS612L	Fibre optic Sensors and Photonics	3	0	0	3	NIL
<b>Project and Internship</b>						
MITS696J	Study Oriented Project				02	NIL
MITS697J	Design Project				02	NIL
MITS698J	Internship I/ Dissertation I				10	NIL
MITS699J	Internship II/ Dissertation II				12	NIL

(Annexure 23)

The Academic Council considered and approved the same.

Item 67/20

To consider and approve the revised programme credit structure, curriculum and course contents of Master of Technology in Nanotechnology.

The curriculum was approved in the 40<sup>th</sup> meeting of the Academic Council held on 18<sup>th</sup> March 2016 [Item No. 40/6.3.c].

Discipline Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
MNAT501L	Semiconductor Device Physics and Technology	3	0	0	3	NIL
MNAT502L	Physics and Chemistry of Solids	3	0	0	3	NIL
MNAT503L	Quantum Physics for Nanostructures	3	0	0	3	NIL
MNAT504L	Carbon Nanomaterials	3	0	0	3	NIL
MNAT505L	Synthesis of Nanomaterials and Thin Film Deposition	3	0	0	3	NIL
MNAT505P	Synthesis of Nanomaterials and Thin Film Deposition Lab	0	0	2	1	NIL
MNAT506L	Nanomaterial Characterization Techniques	3	0	0	3	NIL
MNAT506P	Nanomaterial Characterization Techniques Lab	0	0	2	1	NIL
MNAT507L	Nanoelectronics	3	0	0	3	MNAT503L
MNAT507P	Nanoelectronics Lab	0	0	2	1	MNAT503L
Discipline Electives						
MNAT601L	MEMS to NEMS	3	0	0	3	NIL
MNAT602L	Nanosensors	3	0	0	3	NIL
MNAT603L	Nanophotonics	3	0	0	3	MNAT503L
MNAT604L	Lithographic Techniques for Device Fabrication	3	0	0	3	NIL
MNAT605L	Plasmonics	3	0	0	3	MNAT503L
MNAT606L	Nanomagnetism- Fundamentals and Applications	3	0	0	3	MNAT503L
MNAT607L	Energy Technologies	3	0	0	3	MNAT502L
MNAT608L	Spintronics	3	0	0	3	MNAT503L
MNAT609L	Nanoelectronic Circuit Design	3	0	0	3	MNAT507L
Project and Internship						
MNAT696J	Study Oriented Project				02	NIL
MNAT697J	Design Project				02	NIL
MNAT698J	Internship I/ Dissertation I				10	NIL
MNAT699J	Internship II/ Dissertation II				12	NIL

(Annexure 24)

The Academic Council considered and approved the same.

Item 67/21

To consider and approve the revised programme credit structure, curriculum and course contents of Master of Technology in VLSI Design.

The curriculum was approved in the 40<sup>th</sup> meeting of the Academic Council held on 18<sup>th</sup> March 2016 [Item No. 40/6.3.d].

Discipline Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
MVLD501L	Physics of VLSI Devices	3	0	0	3	NIL
MVLD502L	Digital IC Design	3	0	0	3	NIL
MVLD503L	Digital Design with FPGA	2	0	0	2	NIL
MVLD503P	Digital Design with FPGA Lab	0	0	2	1	NIL
MVLD504L	Analog IC Design	3	0	0	3	NIL
MVLD504P	Analog IC Design Lab	0	0	2	1	NIL
MVLD505L	ASIC Design	3	0	0	3	NIL
MVLD505P	ASIC Design Lab	0	0	2	1	NIL
MVLD506L	VLSI Testing and Testability	3	0	0	3	NIL
MVLD506P	VLSI Testing and Testability Lab	0	0	2	1	NIL
MVLD507L	IC Technology	3	0	0	3	NIL
Discipline Electives						
MVLD601L	Computer Aided Design for VLSI	3	0	0	3	NIL
MVLD602L	Low Power IC Design	3	0	0	3	MVLD502L
MVLD603L	VLSI Verification Methodologies	3	0	0	3	NIL
MVLD604L	Scripting Languages for VLSI Design Automation	3	0	0	3	NIL
MVLD605L	Advanced Computer Arithmetic	3	0	0	3	NIL
MVLD606L	Mixed Signal IC Design	3	0	0	3	MVLD504L
MVLD607L	RFIC Design	3	0	0	3	MVLD504L
MVLD608L	VLSI Digital Signal Processing	3	0	0	3	NIL
MVLD609L	System-on-Chip Design	3	0	0	3	NIL
MVLD610L	Nanoscale Devices and Circuit Design	3	0	0	3	MVLD501L
MVLD611L	Advanced Computer Architecture	3	0	0	3	NIL
MVLD612L	Micro Sensors and Interface Electronics	3	0	0	3	NIL
MVLD613L	System Design with FPGA	3	0	0	3	NIL
MVLD614L	DSP Architectures	3	0	0	3	NIL
MVLD615L	Memory Design and Testing	3	0	0	3	NIL
Project and Internship						
MVLD696J	Study Oriented Project				02	NIL
MVLD697J	Design Project				02	NIL
MVLD698J	Internship I/ Dissertation I				10	NIL
MVLD699J	Internship II/ Dissertation II				12	NIL

(Annexure 25)

The Academic Council considered and approved the same.

Item 67/22

To consider and approve the revised programme credit structure, curriculum and course contents of Master of Technology in Construction Technology and Management.

The curriculum was approved in the 49<sup>th</sup> meeting of the Academic Council held on 15<sup>th</sup> March 2018 [Item No. 49/7.1].

Discipline Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
MCTM501L	Construction Practices and Equipment	2	0	0	2	NIL
MCTM502L	Modern Construction Materials	2	0	0	2	NIL
MCTM503L	Construction Planning and Scheduling	2	2	0	4	NIL
MCTM504L	Quality Control and Safety	2	1	0	3	NIL
MCTM505L	Contract and Administration Planning	3	0	0	3	NIL
MCTM506L	Construction Economics and Finance	3	1	0	4	NIL

MCTM507L	Computer Application in Infrastructure Management	1	1	0	2	NIL
MCTM507P	Computer Application in Infrastructure Management Lab	0	0	2	1	NIL
MMAT501L	Advanced Statistical Methods	2	0	0	2	NIL
MMAT501P	Advanced Statistical Methods Lab	0	0	2	1	NIL
<b>Discipline Electives</b>						
MCTM601L	Construction Personnel Management	3	0	0	3	NIL
MCTM602L	Project Formulation and Appraisal	3	0	0	3	NIL
MCTM603L	Estimating, Tendering and Bidding	3	0	0	3	NIL
MCTM604L	Prefabricated Techniques and Management	3	0	0	3	NIL
MCTM605L	Green Building and Energy Management	3	0	0	3	NIL
MCTM606L	Automation in Construction Industry	3	0	0	3	NIL
MCTM607L	Construction Techniques of Deep Foundations	3	0	0	3	NIL
MCTM608L	Supply Chain Management	3	0	0	3	NIL
MCTM609L	Flexible and Rigid Pavements	3	0	0	3	NIL
MCTM610L	Environmental Impact Assessment	3	0	0	3	NIL
MSTE610L	Repair and Rehabilitation of Structures	3	0	0	3	NIL
<b>Project and Internship</b>						
MCTM696J	Study Oriented Project				02	NIL
MCTM697J	Design Project				02	NIL
MCTM698J	Internship I/ Dissertation I				10	NIL
MCTM699J	Internship II/ Dissertation II				12	NIL

(Annexure 26)

The Academic Council considered and approved the same.

Item 67/23

To consider and approve the revised programme credit structure, curriculum and course contents of Master of Technology in Structural Engineering.

The curriculum was approved in the 40<sup>th</sup> meeting of the Academic Council held on 18<sup>th</sup> March 2016 [Item No. 40/4.1.a].

Discipline Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
MMAT502L	Advanced Mathematical Methods	3	0	0	3	NIL
MSTE501L	Theory of Elasticity and Plasticity	3	0	0	3	NIL
MSTE502L	Design of Concrete Structural Systems	3	1	0	4	NIL
MSTE503L	Structural Dynamics	3	1	0	4	NIL
MSTE504L	Advanced Design of Steel Structures	2	1	0	3	NIL
MSTE505L	Finite Element Analysis	2	1	0	3	NIL
MSTE505P	Finite Element Analysis Lab	0	0	2	1	NIL
MSTE506L	Prestressed Concrete Structures	2	1	0	3	NIL
Discipline Electives						
MSTE601L	Matrix Methods of Structural Analysis	2	1	0	3	NIL
MSTE602L	Design of Bridges	2	1	0	3	NIL
MSTE603L	Prefabricated Structures	2	1	0	3	NIL
MSTE604L	Stability of Structures	2	1	0	3	NIL
MSTE605L	Advanced Concrete Materials and Technology	2	1	0	3	NIL
MSTE606L	Advanced Foundation Design	3	0	0	3	NIL
MSTE607L	Earthquake Resistant Design	2	1	0	3	NIL
MSTE608L	Analysis and Design of Tall Structures	2	1	0	3	NIL
MSTE609L	Offshore Structures	2	1	0	3	NIL
MSTE610L	Repair and Rehabilitation of Structures	3	0	0	3	NIL
MSTE611L	Energy Efficient Buildings	3	0	0	3	NIL
Project and Internship						
MSTE696J	Study Oriented Project				02	NIL
MSTE697J	Design Project				02	NIL

*M. An*

	MSTE698J	Internship I/ Dissertation I				10	NIL
	MSTE699J	Internship II/ Dissertation II				12	NIL
	<b>(Annexure 27)</b>						
	The Academic Council considered and approved the same.						
Item 67/24	To consider and approve the revised programme credit structure, curriculum and course contents of Master of Technology in Biotechnology.						
	The curriculum was approved in the 40 <sup>th</sup> meeting of the Academic Council held on 18 <sup>th</sup> March 2016 [Item No. 40/5.1.a].						
	<b>Discipline Core Courses</b>						
	Course Code	Course Title	L	T	P	C	Prerequisite
	MBIT501L	Advanced Biochemistry	3	0	0	3	NIL
	MBIT501P	Advanced Biochemistry Lab	0	0	2	1	NIL
	MBIT502L	Analytical Techniques in Biotechnology	3	0	0	3	NIL
	MBIT503L	Bioprocess Technology	3	0	0	3	NIL
	MBIT503P	Bioprocess Technology Lab	0	0	4	2	NIL
	MBIT504L	Computational Biology	3	0	0	3	NIL
	MBIT504P	Computational Biology Lab	0	0	2	1	NIL
	MBIT505L	Genetic Engineering	3	0	0	3	NIL
	MBIT505P	Genetic Engineering Lab	0	0	4	2	NIL
	MBIT506L	Immunotechnology	3	0	0	3	NIL
	<b>Discipline Electives</b>						
	MBIT601L	Industrial Biotechnology	3	0	0	3	NIL
	MBIT602L	Nanobiotechnology	3	0	0	3	NIL
	MBIT603L	Protein Engineering and Technology	3	0	0	3	NIL
	MBIT604L	Programming for Biologists	3	0	0	3	NIL
	MBIT605L	Food Process Technology	3	0	0	3	NIL
	MBIT606L	Natural Product Technology	3	0	0	3	NIL
	MBIT607L	Plant Biotechnology	3	0	0	3	NIL
	MBIT608L	Animal Biotechnology	3	0	0	3	NIL
	MBIT609L	Pharmaceutical Biotechnology	3	0	0	3	NIL
	MBIT610L	Environmental Biotechnology	3	0	0	3	NIL
	MBIT611L	Aquatic Biotechnology	3	0	0	3	NIL
	MBIT612L	Proteomics	3	0	0	3	NIL
	MBIT613L	Cancer Biology	3	0	0	3	NIL
	MBIT614L	Medical Biotechnology	3	0	0	3	NIL
	MBIT615L	Microbial Biotechnology	3	0	0	3	NIL
	<b>Project and Internship</b>						
	MBIT696J	Study Oriented Project				02	NIL
	MBIT697J	Design Project				02	NIL
	MBIT698J	Internship I/ Dissertation I				10	NIL
	MBIT699J	Internship II/ Dissertation II				12	NIL
	<b>(Annexure 28)</b>						
	The Academic Council considered and approved the same.						
Item 67/25	To consider and approve the revised programme credit structure, curriculum and course contents of Master of Technology in Control and Automation.						
	The curriculum was approved in the 40 <sup>th</sup> meeting of the Academic Council held on 18 <sup>th</sup> March 2016 [Item No. 40/7.3.a].						
	<b>Discipline Core Courses</b>						
	Course Code	Course Title	L	T	P	C	Prerequisite
	MCOA501L	Applied Mathematical Methods in Control Engineering	3	1	0	4	NIL
	MCOA502L	System Theory	3	0	0	3	NIL

MCOA502P	System Theory Lab	0	0	2	1	NIL
MCOA503L	Random Variables and State Estimation	3	0	0	3	NIL
MCOA504L	Smart Sensor Systems	3	0	0	3	NIL
MCOA505L	Process Dynamics and Control	3	0	0	3	NIL
MCOA505P	Process Dynamics and Control Lab	0	0	2	1	NIL
MCOA506L	Real Time Embedded Systems	2	0	0	2	NIL
MCOA506P	Real Time Embedded Systems Lab	0	0	2	1	NIL
MCOA507L	Industrial Automation	2	0	0	2	NIL
MCOA507P	Industrial Automation Lab	0	0	2	1	NIL
<b>Discipline Electives</b>						
MCOA601L	Building Automation	3	0	0	3	NIL
MCOA602L	Industrial Robotics	3	0	0	3	NIL
MCOA603L	Control of Electric Drives	3	0	0	3	NIL
MCOA604L	Machine Learning	2	0	0	2	NIL
MCOA604P	Machine Learning Lab	0	0	2	1	NIL
MCOA605L	Advanced Python Programming	1	0	0	1	NIL
MCOA605P	Advanced Python Programming Lab	0	0	4	2	NIL
MCOA606L	Optimal Control Systems	3	0	0	3	NIL
MCOA607L	Adaptive and Robust Control	3	0	0	3	MCOA502L, MCOA502P
MCOA608L	Discrete Control Systems	3	0	0	3	NIL
MCOA609L	Multivariable Control System	3	0	0	3	NIL
MCOA610L	Industrial Data Networks	3	0	0	3	NIL
MCOA611L	Data Acquisition and Hardware Interfaces	3	0	0	3	NIL
<b>Project and Internship</b>						
MCOA696J	Study Oriented Project				02	NIL
MCOA697J	Design Project				02	NIL
MCOA698J	Internship I/ Dissertation I				10	NIL
MCOA699J	Internship II/ Dissertation II				12	NIL

(Annexure 29)

The Academic Council considered and approved the same.

Item 67/26

To consider and approve the revised programme credit structure, curriculum and course contents of Master of Technology in Power Electronics and Drives.

The curriculum was approved in the 40<sup>th</sup> meeting of the Academic Council held on 18<sup>th</sup> March 2016 [Item No. 40/7.3.b].

<b>Discipline Core Courses</b>						
Course Code	Course Title	L	T	P	C	Prerequisite
MPED501L	Advanced Semiconductor Devices	3	0	0	3	NIL
MPED502L	Analysis of Power Converters	3	0	0	3	NIL
MPED502P	Analysis of Power Converters Lab	0	0	2	1	NIL
MPED503L	Switched Mode Power Supplies	2	0	0	2	NIL
MPED504L	Generalized Machine Theory	3	1	0	4	NIL
MPED505L	Industrial Electrical Drives	3	0	0	3	MPED502L, MPED504L
MPED505P	Industrial Electrical Drives Lab	0	0	2	1	MPED502L, MPED504L
MPED506L	Special Machines and Control	3	0	0	3	MPED502L
MPED507L	Advanced Processors for Power Converters	3	0	0	3	NIL
MPED507P	Advanced Processors for Power Converters Lab	0	0	2	1	NIL
<b>Discipline Electives</b>						
MPED601L	Modern Control Theory	3	0	0	3	NIL
MPED602L	Intelligent Control	3	0	0	3	NIL
MPED603L	Energy Storage Systems	3	0	0	3	NIL
MPED604L	Solar Photo Voltaic Systems	3	0	0	3	MPED502L
MPED605L	Electric and Hybrid Electric Vehicles	3	0	0	3	MPED502L
MPED606L	Wind Energy Conversion Systems	3	0	0	3	MPED502L
MPED607L	Microgrid Technologies	3	0	0	3	MPED502L

	MPED608L	Integrated Circuits for Power Conversion	2	0	0	2	NIL
	MPED608P	Integrated Circuits for Power Conversion Lab	0	0	2	1	NIL
	MPED609L	Power Electronics Applications in Power Systems	3	0	0	3	MPED502L
<b>Project and Internship</b>							
	MPED696J	Study Oriented Project				02	NIL
	MPED697J	Design Project				02	NIL
	MPED698J	Internship I/ Dissertation I				10	NIL
	MPED699J	Internship II/ Dissertation II				12	NIL
<i>(Annexure 30)</i>							
<b>The Academic Council considered and approved the same.</b>							
Item 67/27	<p><b>To consider and approve the revised programme credit structure, curriculum and course contents of Master of Technology in Computer Science and Engineering with Specialization in Cyber Physical Systems.</b></p> <p><b>The curriculum was approved in the 55<sup>th</sup> meeting of the Academic Council held on 13<sup>th</sup> June 2019 [Item No. 55/10.2].</b></p>						
<b>Specialization Electives</b>							
Course Code	Course Title	L	T	P	C	Prerequisite	
MCSE621L	Control Engineering	3	0	0	3	NIL	
MCSE621P	Control Engineering Lab	0	0	2	1	NIL	
MCSE622L	Framework of Cyber Physical Systems	3	0	0	3	NIL	
MCSE623L	Cyber Physical Systems Design	2	0	0	2	NIL	
MCSE623P	Cyber Physical Systems Design Lab	0	0	2	1	NIL	
MCSE624L	Real Time Systems	2	0	0	2	NIL	
MCSE625L	Fault Tolerant Systems	3	0	0	3	NIL	
MCSE626L	Industry 4.0	3	0	0	3	NIL	
<i>(Annexure 31)</i>							
<b>The Academic Council considered and approved the same.</b>							
Item 67/28	<p><b>To consider and approve the course contents for the courses of Master of Technology in Computer Science and Engineering.</b></p> <p><b>The curriculum was approved in the 66<sup>th</sup> meeting of the Academic Council held on 16<sup>th</sup> June 2022 [Item No. 66/9].</b></p>						
<b>Discipline Core Courses</b>							
Course Code	Course Title	L	T	P	C	Prerequisite	
MCSE501L	Data Structures and Algorithms	3	0	0	3	NIL	
MCSE501P	Data Structures and Algorithms Lab	0	0	2	1	NIL	
MCSE502L	Design and Analysis of Algorithms	3	0	0	3	NIL	
MCSE502P	Design and Analysis of Algorithms Lab	0	0	2	1	NIL	
MCSE503L	Computer Architecture and Organisation	3	0	0	3	NIL	
MCSE503P	Computer Architecture and Organisation Lab	0	0	2	1	NIL	
MCSE504L	Operating Systems	3	0	0	3	NIL	
MCSE504P	Operating Systems Lab	0	0	2	1	NIL	
MCSE505L	Computer Networks	3	0	0	3	NIL	
MCSE505P	Computer Networks Lab	0	0	2	1	NIL	
MCSE506L	Database Systems	3	0	0	3	NIL	
MCSE506P	Database Systems Lab	0	0	2	1	NIL	
<b>Project and Internship</b>							
MCSE696J	Study Oriented Project				02	NIL	
MCSE697J	Design Project				02	NIL	
MCSE698J	Internship I/ Dissertation I				10	NIL	



	MCSE699J	Internship II/ Dissertation II				12	NIL																																																								
	<b>(Annexure 32)</b>																																																														
	The Academic Council considered and approved the same.																																																														
Item 67/29	<p>To consider and approve the course contents for the courses of Master of Technology in Computer Science and Engineering with Specialization in Big Data Analytics.</p> <p>The curriculum was approved in the 66<sup>th</sup> meeting of the Academic Council held on 16<sup>th</sup> June 2022 [Item No. 66/10].</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7" style="text-align: center;">Specialization Electives</th> </tr> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> <th>Prerequisite</th> </tr> </thead> <tbody> <tr> <td>MCSE614L</td> <td>Big Data Frameworks and Technologies</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>MCSE614P</td> <td>Big Data Frameworks and Technologies Lab</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>NIL</td> </tr> <tr> <td>MCSE615L</td> <td>Data Analytics</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>MCSE615P</td> <td>Data Analytics Lab</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>NIL</td> </tr> <tr> <td>MCSE616L</td> <td>Data Visualization</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>MCSE616P</td> <td>Data Visualization Lab</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>NIL</td> </tr> </tbody> </table> <p style="text-align: right;"><b>(Annexure 33)</b></p> <p>The Academic Council considered and approved the same.</p>							Specialization Electives							Course Code	Course Title	L	T	P	C	Prerequisite	MCSE614L	Big Data Frameworks and Technologies	2	0	0	2	NIL	MCSE614P	Big Data Frameworks and Technologies Lab	0	0	2	1	NIL	MCSE615L	Data Analytics	2	0	0	2	NIL	MCSE615P	Data Analytics Lab	0	0	2	1	NIL	MCSE616L	Data Visualization	2	0	0	2	NIL	MCSE616P	Data Visualization Lab	0	0	2	1	NIL
Specialization Electives																																																															
Course Code	Course Title	L	T	P	C	Prerequisite																																																									
MCSE614L	Big Data Frameworks and Technologies	2	0	0	2	NIL																																																									
MCSE614P	Big Data Frameworks and Technologies Lab	0	0	2	1	NIL																																																									
MCSE615L	Data Analytics	2	0	0	2	NIL																																																									
MCSE615P	Data Analytics Lab	0	0	2	1	NIL																																																									
MCSE616L	Data Visualization	2	0	0	2	NIL																																																									
MCSE616P	Data Visualization Lab	0	0	2	1	NIL																																																									
Item 67/30	<p>To consider and approve the course contents for the courses of Master of Technology in Computer Science and Engineering with Specialization in Information Security.</p> <p>The curriculum was approved in the 66<sup>th</sup> meeting of the Academic Council held on 16<sup>th</sup> June 2022 [Item No. 66/11].</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7" style="text-align: center;">Specialization Electives</th> </tr> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> <th>Prerequisite</th> </tr> </thead> <tbody> <tr> <td>MCSE608L</td> <td>Information Security and Risk Management</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>MCSE609L</td> <td>Cryptosystems</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>MCSE609P</td> <td>Cryptosystems Lab</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>NIL</td> </tr> <tr> <td>MCSE610L</td> <td>Penetration Testing and Vulnerability Assessment</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>MCSE610P</td> <td>Penetration Testing and Vulnerability Assessment Lab</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>NIL</td> </tr> </tbody> </table> <p style="text-align: right;"><b>(Annexure 34)</b></p> <p>The Academic Council considered and approved the same.</p>							Specialization Electives							Course Code	Course Title	L	T	P	C	Prerequisite	MCSE608L	Information Security and Risk Management	3	0	0	3	NIL	MCSE609L	Cryptosystems	2	0	0	2	NIL	MCSE609P	Cryptosystems Lab	0	0	2	1	NIL	MCSE610L	Penetration Testing and Vulnerability Assessment	2	0	0	2	NIL	MCSE610P	Penetration Testing and Vulnerability Assessment Lab	0	0	2	1	NIL							
Specialization Electives																																																															
Course Code	Course Title	L	T	P	C	Prerequisite																																																									
MCSE608L	Information Security and Risk Management	3	0	0	3	NIL																																																									
MCSE609L	Cryptosystems	2	0	0	2	NIL																																																									
MCSE609P	Cryptosystems Lab	0	0	2	1	NIL																																																									
MCSE610L	Penetration Testing and Vulnerability Assessment	2	0	0	2	NIL																																																									
MCSE610P	Penetration Testing and Vulnerability Assessment Lab	0	0	2	1	NIL																																																									
Item 67/31	<p>To consider and approve the course contents for the courses of Master of Technology in Computer Science Engineering with Specialization in Artificial Intelligence and Machine learning.</p> <p>The curriculum was approved in the 66<sup>th</sup> meeting of the Academic Council held on 16<sup>th</sup> June 2022 [Item No. 66/12].</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7" style="text-align: center;">Specialization Electives</th> </tr> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> <th>Prerequisite</th> </tr> </thead> <tbody> <tr> <td>MCSE601L</td> <td>Artificial Intelligence</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>MCSE602L</td> <td>Machine Learning</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>MCSE602P</td> <td>Machine Learning Lab</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>NIL</td> </tr> <tr> <td>MCSE603L</td> <td>Deep Learning</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>MCSE603P</td> <td>Deep Learning Lab</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>NIL</td> </tr> </tbody> </table> <p style="text-align: right;"><b>(Annexure 35)</b></p> <p>The Academic Council considered and approved the same.</p>							Specialization Electives							Course Code	Course Title	L	T	P	C	Prerequisite	MCSE601L	Artificial Intelligence	3	0	0	3	NIL	MCSE602L	Machine Learning	2	0	0	2	NIL	MCSE602P	Machine Learning Lab	0	0	2	1	NIL	MCSE603L	Deep Learning	2	0	0	2	NIL	MCSE603P	Deep Learning Lab	0	0	2	1	NIL							
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MCSE601L	Artificial Intelligence	3	0	0	3	NIL																																																									
MCSE602L	Machine Learning	2	0	0	2	NIL																																																									
MCSE602P	Machine Learning Lab	0	0	2	1	NIL																																																									
MCSE603L	Deep Learning	2	0	0	2	NIL																																																									
MCSE603P	Deep Learning Lab	0	0	2	1	NIL																																																									



Item 67/32	<p><b>To consider and approve the removal of Pre-requisite for the course of Bachelor of Technology in Electronics and Communication Engineering and Bachelor of Technology in Electronics and Communication Engineering with Specialization in Biomedical Engineering.</b></p> <table border="1" data-bbox="327 224 1420 392"> <thead> <tr> <th colspan="6">Discipline Core Course</th> <th rowspan="2">Existing Prerequisite</th> <th rowspan="2">Proposed Prerequisite</th> </tr> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>BECE207L</td> <td>Random Processes</td> <td>2</td> <td>1</td> <td>0</td> <td>3</td> <td>BMAT202L, BMAT202P, BECE202L</td> <td>BECE202L</td> </tr> </tbody> </table> <p style="text-align: right;"><i>(Annexure 36)</i></p> <p>The Academic Council considered and approved the same.</p>	Discipline Core Course						Existing Prerequisite	Proposed Prerequisite	Course Code	Course Title	L	T	P	C	BECE207L	Random Processes	2	1	0	3	BMAT202L, BMAT202P, BECE202L	BECE202L																																																																																																		
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Item 67/33	<p><b>To consider and approve the course contents for the courses of Bachelor of Technology in Manufacturing Engineering for the Diploma Holders of TATA Electronics Private Ltd offered under Blended Learning Mode.</b></p> <p>The curriculum was approved in the 66<sup>th</sup> meeting of the Academic Council held on 16<sup>th</sup> June 2022 [Item No. 66/13].</p> <table border="1" data-bbox="327 694 1420 1187"> <thead> <tr> <th colspan="8">Foundation Core Courses</th> </tr> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> <th colspan="2">Prerequisite</th> </tr> </thead> <tbody> <tr><td>WBMF103L</td><td>Probability and Statistics</td><td>3</td><td>0</td><td>0</td><td>3</td><td colspan="2">NIL</td></tr> <tr><td>WBMF108L</td><td>Calculus</td><td>3</td><td>0</td><td>0</td><td>3</td><td colspan="2">NIL</td></tr> <tr><td>WBMF108P</td><td>Calculus Lab</td><td>0</td><td>0</td><td>2</td><td>1</td><td colspan="2">NIL</td></tr> <tr><td>WBMF105L</td><td>Engineering Mechanics</td><td>2</td><td>1</td><td>0</td><td>3</td><td colspan="2">NIL</td></tr> <tr><td>WBMF106P</td><td>Engineering Design Visualization Lab</td><td>0</td><td>0</td><td>4</td><td>2</td><td colspan="2">NIL</td></tr> <tr><td>WBMF107L</td><td>Basic Electrical and Electronics Engineering</td><td>3</td><td>0</td><td>0</td><td>3</td><td colspan="2">NIL</td></tr> <tr><td>WBMF107P</td><td>Basic Electrical and Electronics Engineering Lab</td><td>0</td><td>0</td><td>2</td><td>1</td><td colspan="2">NIL</td></tr> <tr><th colspan="8">Humanities, Social Sciences and Management Courses</th></tr> <tr><td>WBMF104L</td><td>Technical English Communication</td><td>2</td><td>0</td><td>0</td><td>2</td><td colspan="2">NIL</td></tr> <tr><td>WBMF204L</td><td>Principles of Management</td><td>3</td><td>0</td><td>0</td><td>3</td><td colspan="2">NIL</td></tr> <tr><th colspan="8">Discipline-linked Engineering Sciences</th></tr> <tr><td>WBMF110L</td><td>Materials Science and Engineering</td><td>3</td><td>0</td><td>0</td><td>3</td><td colspan="2">NIL</td></tr> <tr><td>WBMF110P</td><td>Materials Science and Engineering Lab</td><td>0</td><td>0</td><td>2</td><td>1</td><td colspan="2">NIL</td></tr> </tbody> </table> <p style="text-align: right;"><i>(Annexure 37)</i></p> <p>The Academic Council considered and approved the same.</p>	Foundation Core Courses								Course Code	Course Title	L	T	P	C	Prerequisite		WBMF103L	Probability and Statistics	3	0	0	3	NIL		WBMF108L	Calculus	3	0	0	3	NIL		WBMF108P	Calculus Lab	0	0	2	1	NIL		WBMF105L	Engineering Mechanics	2	1	0	3	NIL		WBMF106P	Engineering Design Visualization Lab	0	0	4	2	NIL		WBMF107L	Basic Electrical and Electronics Engineering	3	0	0	3	NIL		WBMF107P	Basic Electrical and Electronics Engineering Lab	0	0	2	1	NIL		Humanities, Social Sciences and Management Courses								WBMF104L	Technical English Communication	2	0	0	2	NIL		WBMF204L	Principles of Management	3	0	0	3	NIL		Discipline-linked Engineering Sciences								WBMF110L	Materials Science and Engineering	3	0	0	3	NIL		WBMF110P	Materials Science and Engineering Lab	0	0	2	1	NIL	
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WBMF103L	Probability and Statistics	3	0	0	3	NIL																																																																																																																			
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WBMF106P	Engineering Design Visualization Lab	0	0	4	2	NIL																																																																																																																			
WBMF107L	Basic Electrical and Electronics Engineering	3	0	0	3	NIL																																																																																																																			
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WBMF104L	Technical English Communication	2	0	0	2	NIL																																																																																																																			
WBMF204L	Principles of Management	3	0	0	3	NIL																																																																																																																			
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WBMF110P	Materials Science and Engineering Lab	0	0	2	1	NIL																																																																																																																			
Item 67/34	<p><b>To consider and approve the course contents for the courses of Bachelor of Technology in Construction Technology for the Diploma Holders of Larsen&amp;Toubro (L&amp;T) Ltd offered under Blended Learning Mode.</b></p> <p>The curriculum was approved in the 66<sup>th</sup> meeting of the Academic Council held on 16<sup>th</sup> June 2022 [Item No. 66/14].</p> <table border="1" data-bbox="327 1489 1420 1870"> <thead> <tr> <th colspan="8">Foundation Core Courses</th> </tr> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> <th colspan="2">Prerequisite</th> </tr> </thead> <tbody> <tr><td>WBCT101L</td><td>Probability and Statistics</td><td>3</td><td>2</td><td>0</td><td>4</td><td colspan="2">NIL</td></tr> <tr><td>WBCT102L</td><td>Building Materials</td><td>3</td><td>0</td><td>0</td><td>3</td><td colspan="2">NIL</td></tr> <tr><th colspan="8">Discipline-Linked Engineering Sciences</th></tr> <tr><td>WBCT108L</td><td>Mechanics of Solids</td><td>3</td><td>2</td><td>0</td><td>4</td><td colspan="2">NIL</td></tr> <tr><td>WBCT109E</td><td>Surveying</td><td>3</td><td>0</td><td>2</td><td>4</td><td colspan="2">NIL</td></tr> <tr><td>WBCT110L</td><td>Construction Techniques</td><td>3</td><td>2</td><td>0</td><td>4</td><td colspan="2">NIL</td></tr> <tr><th colspan="8">Discipline Core Courses</th></tr> <tr><td>WBCT201E</td><td>Construction Planning and Control</td><td>3</td><td>0</td><td>2</td><td>4</td><td colspan="2">NIL</td></tr> <tr><td>WBCT202L</td><td>Quality Assurance and Control in Construction</td><td>3</td><td>2</td><td>0</td><td>4</td><td colspan="2">NIL</td></tr> <tr><td>WBCT203L</td><td>Quantity Surveying, Estimation and Contracts</td><td>3</td><td>2</td><td>0</td><td>4</td><td colspan="2">NIL</td></tr> </tbody> </table>	Foundation Core Courses								Course Code	Course Title	L	T	P	C	Prerequisite		WBCT101L	Probability and Statistics	3	2	0	4	NIL		WBCT102L	Building Materials	3	0	0	3	NIL		Discipline-Linked Engineering Sciences								WBCT108L	Mechanics of Solids	3	2	0	4	NIL		WBCT109E	Surveying	3	0	2	4	NIL		WBCT110L	Construction Techniques	3	2	0	4	NIL		Discipline Core Courses								WBCT201E	Construction Planning and Control	3	0	2	4	NIL		WBCT202L	Quality Assurance and Control in Construction	3	2	0	4	NIL		WBCT203L	Quantity Surveying, Estimation and Contracts	3	2	0	4	NIL																									
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	The Academic Council considered and approved the same. <span style="float: right;">(Annexure 38)</span>																																																	
Item 67/35	<p>To consider and approve the course contents for the courses of Bachelor of Commerce offered by VIT Online Learning Institute (VITOL).</p> <p>The curriculum was approved in the 64<sup>th</sup> meeting of the Academic Council held on 16<sup>th</sup> December 2021 [Item No. 64/8].</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7">Ability Enhancement Courses</th> </tr> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> <th>Prerequisite</th> </tr> </thead> <tbody> <tr> <td>OLBCO108</td> <td>Environmental Sciences</td> <td>3</td> <td>1</td> <td>0</td> <td>4</td> <td>NIL</td> </tr> <tr> <th colspan="7">Discipline Core Courses</th> </tr> <tr> <td>OLBCO105</td> <td>Financial Reporting</td> <td>5</td> <td>1</td> <td>0</td> <td>6</td> <td>NIL</td> </tr> <tr> <td>OLBCO106</td> <td>Business Mathematics</td> <td>5</td> <td>1</td> <td>0</td> <td>6</td> <td>NIL</td> </tr> <tr> <td>OLBCO107</td> <td>Business and Corporate Laws</td> <td>5</td> <td>1</td> <td>0</td> <td>6</td> <td>NIL</td> </tr> </tbody> </table> <p style="text-align: right;">(Annexure 39)</p> <p>The Academic Council considered and approved the same.</p>	Ability Enhancement Courses							Course Code	Course Title	L	T	P	C	Prerequisite	OLBCO108	Environmental Sciences	3	1	0	4	NIL	Discipline Core Courses							OLBCO105	Financial Reporting	5	1	0	6	NIL	OLBCO106	Business Mathematics	5	1	0	6	NIL	OLBCO107	Business and Corporate Laws	5	1	0	6	NIL
Ability Enhancement Courses																																																		
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OLBCO106	Business Mathematics	5	1	0	6	NIL																																												
OLBCO107	Business and Corporate Laws	5	1	0	6	NIL																																												
Item 67/36	<p>To consider and approve the course contents for the courses of Bachelor of Computer Applications offered by VIT Online Learning Institute (VITOL).</p> <p>The curriculum was approved in the 64<sup>th</sup> meeting of the Academic Council held on 16<sup>th</sup> December 2021 [Item No. 64/9].</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7">Ability Enhancement Courses</th> </tr> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> <th>Prerequisite</th> </tr> </thead> <tbody> <tr> <td>OLBCA108</td> <td>Environmental Sciences</td> <td>3</td> <td>1</td> <td>0</td> <td>4</td> <td>NIL</td> </tr> <tr> <th colspan="7">Discipline Core Courses</th> </tr> <tr> <td>OLBCA106</td> <td>Data Structures</td> <td>5</td> <td>1</td> <td>0</td> <td>6</td> <td>NIL</td> </tr> <tr> <td>OLBCA107</td> <td>Operating Systems</td> <td>5</td> <td>1</td> <td>0</td> <td>6</td> <td>NIL</td> </tr> </tbody> </table> <p style="text-align: right;">(Annexure 40)</p> <p>The Academic Council considered and approved the same.</p>	Ability Enhancement Courses							Course Code	Course Title	L	T	P	C	Prerequisite	OLBCA108	Environmental Sciences	3	1	0	4	NIL	Discipline Core Courses							OLBCA106	Data Structures	5	1	0	6	NIL	OLBCA107	Operating Systems	5	1	0	6	NIL							
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OLBCA106	Data Structures	5	1	0	6	NIL																																												
OLBCA107	Operating Systems	5	1	0	6	NIL																																												
Item 67/37	<p>To consider and approve the course contents for the courses of Bachelor of Business Administration offered by VIT Online Learning Institute (VITOL).</p> <p>The curriculum was approved in the 64<sup>th</sup> meeting of the Academic Council held on 16<sup>th</sup> December 2021 [Item No. 64/10].</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7">Ability Enhancement Courses</th> </tr> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> <th>Prerequisite</th> </tr> </thead> <tbody> <tr> <td>OLBBA108</td> <td>Environmental Sciences</td> <td>3</td> <td>1</td> <td>0</td> <td>4</td> <td>NIL</td> </tr> <tr> <th colspan="7">Discipline Core Courses</th> </tr> <tr> <td>OLBBA105</td> <td>Marketing Management</td> <td>5</td> <td>1</td> <td>0</td> <td>6</td> <td>NIL</td> </tr> <tr> <td>OLBBA107</td> <td>Business Statistics</td> <td>5</td> <td>1</td> <td>0</td> <td>6</td> <td>NIL</td> </tr> </tbody> </table> <p style="text-align: right;">(Annexure 41)</p> <p>The Academic Council considered and approved the same.</p>	Ability Enhancement Courses							Course Code	Course Title	L	T	P	C	Prerequisite	OLBBA108	Environmental Sciences	3	1	0	4	NIL	Discipline Core Courses							OLBBA105	Marketing Management	5	1	0	6	NIL	OLBBA107	Business Statistics	5	1	0	6	NIL							
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OLBBA107	Business Statistics	5	1	0	6	NIL																																												
Item 67/38	<p>To consider and approve the course contents for the courses of Master of Computer Applications offered by VIT Online Learning Institute (VITOL).</p> <p>The curriculum was approved in the 64<sup>th</sup> meeting of the Academic Council held on 16<sup>th</sup> December 2021 [Item No. 64/11].</p>																																																	

*Mr. A*

Discipline Core Courses		L	T	P	C	Prerequisite
Course Code	Course Title					
OLMCA506	Statistics for Data Science	3	1	0	4	NIL
OLMCA507	Computer Networks	3	1	0	4	NIL
OLMCA508	Software Engineering	3	1	0	4	NIL
Discipline Electives						
OLMCA601	Artificial Intelligence	3	1	0	4	NIL
OLMCA608	Mobile Application Development	3	1	0	4	NIL

**(Annexure 42)**

The Academic Council considered and approved the same.

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Item 67/39 **To consider and approve the course contents for the courses of Master of Business Administration offered by VIT Online Learning Institute (VITOL).**

The curriculum was approved in the 64<sup>th</sup> meeting of the Academic Council held on 16<sup>th</sup> December 2021 [Item No. 64/12].

Foundation Core Courses		L	T	P	C	Prerequisite
Course Code	Course Title					
OLMBA506	Human Resource Management	5	1	0	6	NIL
OLMBA507	Marketing Management	5	1	0	6	NIL
OLMBA508	Operations Management	5	1	0	6	NIL
OLMBA509	Strategic Management	5	1	0	6	NIL
OLMBA510	Financial Management	3	1	0	4	NIL

**(Annexure 43)**

The Academic Council considered and approved the same.

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Item 67/40 **To consider and approve the course contents for the courses of Master of Science in Data Science offered by VIT Online Learning Institute (VITOL).**

The curriculum was approved in the 65<sup>th</sup> meeting of the Academic Council held on 17<sup>th</sup> March 2022 [Item No. 65/50].

Discipline Core Courses		L	T	P	C	Prerequisite
Course Code	Course Title					
OLMDS503	Forecasting and Predictive Analytics	3	1	0	4	NIL
OLMDS504	Statistical Inference	3	1	0	4	NIL
OLMDS507	Data Structures and Algorithms	3	1	0	4	NIL
OLMDS508	Data Mining	3	1	0	4	NIL
OLMDS509	Artificial Intelligence	3	1	0	4	NIL
Discipline Electives						
OLMDS603	Machine Learning	3	1	0	4	NIL

**(Annexure 44)**

The Academic Council considered and approved the same.

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Item 67/41 **To consider and approve the new online academic programme, curriculum and course contents for the courses of Post Graduate Certificate in Recent Trends of Information Technology offered by VIT Online Learning Institute (VITOL).**

Discipline Core Courses		L	T	P	C	Prerequisite
Course Code	Course Title					
OPCIT51L	Algorithms: Design and Implementation	2	0	0	2	NIL
OPCIT51P	Algorithms: Design and Implementation Lab	0	0	2	1	NIL
OPCIT52L	Database Systems: Design and Implementation	3	0	0	3	NIL
OPCIT52P	Database Systems: Design and Implementation Lab	0	0	2	1	NIL
OPCIT53L	Software Engineering	3	0	0	3	NIL
OPCIT54L	Internet and Web Programming	3	0	0	3	NIL

OPCIT54P	Internet and Web Programming Lab	0	0	2	1	NIL
OPCIT61L	Cloud Computing and Virtualization	3	0	0	3	NIL
OPCIT62L	Software Testing	3	0	0	3	NIL
OPCIT63L	Computer Programming: Python	2	0	0	2	NIL
OPCIT63P	Computer Programming: Python Lab	0	0	4	2	NIL
OPCIT64L	Cyber Security	3	0	0	3	NIL
OPCIT64P	Cyber Security Lab	0	0	2	1	NIL
OPCIT69J	Project	0	0	0	12	NIL

(Annexure 45)

The Academic Council considered and approved the same.

Item 67/42

**Reporting Item:**

VIT has decided to award Honorary degree in Doctor of Philosophy (Honoris Causa) to Professor Dr. Sethuraman Panchanathan, Director, National Science Foundation, USA, for his outstanding Scientific contributions during the 37<sup>th</sup> Annual Convocation.

(Annexure 46)

Noted.

Item 67/43

**Vote of thanks**

The meeting ended with vote of thanks by the Registrar.

*M. Anthony Xavier*  
8/8/22

**Dr. M. Anthony Xavier**  
Dean Academics,  
Vellore Institute of Technology  
Vellore – 632014

**Dr. M. Anthony Xavier**  
Dean (Academics)

**Vellore Institute of Technology (VIT)**

(Deemed to be University under section 3 of UGC Act, 1956)

Vellore-632 014, Tamil Nadu, India

*T. Jayabharathi*

**Dr. Jayabharathi. T**  
Secretary, Academic Council  
Registrar,  
Vellore Institute of Technology  
Vellore – 632014

**REGISTRAR**

**Vellore Institute of Technology (VIT)**

(Deemed to be University under section 3 of UGC Act, 1956)

Vellore-632 014, Tamil Nadu, India

*R. S. Kodali*

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