

**Minutes of the  
72<sup>nd</sup> Meeting of the Academic Council  
held on  
13<sup>th</sup> December 2023**





## Minutes of the 72<sup>nd</sup> Meeting of the Academic Council

(13<sup>th</sup> December 2023 | 10.00 AM | Vellore Campus)

### Members Present:

1. Dr. V.S. Kanchana Bhaskaran, Vice-Chancellor-in-Charge, Chairperson
2. Dr. Partha Sharathi Mallick, Pro-Vice Chancellor
3. Shri. Jaji Vijayaraman, Entrepreneur, Chennai
4. Prof. R. Govindarajan, *IISc, Bangalore*
5. Dr. Mangala Sunder Krishnan, *IIT Madras*
6. Mr. Manikandan Thangarathnam, *UBER, Bangalore*
7. Prof. R. Gnanamoorthy, *IIT Madras*
8. Dr. M. Anthony Xavier, Dean Academics, Vellore Campus
9. Dr. A. Nayeemulla Khan, Dean Academics, Chennai Campus
10. Dr. N. Arunai Nambiraj, Dean, School of Advanced Sciences, Vellore Campus
11. Dr. R. Siva, Dean, School of Biosciences and Technology, Vellore Campus
12. Dr. A.S. Santhi, Dean, School of Civil Engineering, 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. M. Vajjhala Venkata Gopal, Dean, VIT Business School, Vellore Campus
21. Dr. S. Babu, Dean, VIT Agricultural Innovations and Advanced Learning, Vellore Campus
22. Dr. Vydianathan R, *Dean, VIT School of Design, Vellore Campus*
23. Dr. A. Madhumathi, Director, School of Architecture, Vellore Campus
24. Dr. P. Arulmozhivarman, Dean, Academics Research, Vellore Campus
25. Dr. Sridharan T.B., Controller of Examination
26. Dr. V. Samuel Rajkumar, Director, Career Development Centre, Vellore Campus
27. Dr. Sasikumar S, Director, PG Admissions, Vellore Campus
28. Dr. P.C. Sabumon, Dean, Academic Research, Chennai Campus
29. Dr. S. Mahalakshmi, Dean, School of Advanced Sciences, Chennai Campus
30. Dr. R. Ganesan, Dean, School of Computer Sciences and Engineering, Chennai Campus
31. Dr. Senthil Kumar N, Dean, School of Electrical Engineering, Chennai Campus
32. Dr. Susan Elias, Dean, School of Electronics Engineering, Chennai Campus
33. Dr. C. Rabbiraj, Dean In-charge, VIT School of Law, Chennai Campus
34. Dr. Annamalai K, Dean, School of Mechanical Engineering, Chennai Campus
35. Dr. Hari Krishnan K, Dean, VIT Business School, Chennai Campus
36. Dr. S. Elavenil, Dean, School of Civil Engineering, Chennai Campus
37. Dr. G. Bhuvaneshwari, Associate Dean, School of Social Sciences and Languages, Chennai Campus
38. Dr. D. Vasanth Kumar, HOD, VIT Fashion Institute of Technology, Chennai Campus
39. Dr. V. Viswanathan, Deputy Controller of Examinations, Chennai Campus
40. Dr. A. Raja Annamalai, Professor, Centre for Innovative Manufacturing Research, Vellore Campus
41. Dr. V. Thanikaiselvan, Professor, School of Electronics Engineering, Vellore Campus
42. Dr. G. Madhumitha, Associate Professor, School of Advanced Sciences, Vellore Campus
43. Dr. Madhusudhana Rao N, Dean Academics, VIT-AP University, Special Invitee
44. Dr. (Ms.) T. Jayabarathi, Registrar, Member Secretary

**Leave of Absence:**

1. Prof. R. Narasimhan, *IISc, Bangalore*
2. Mrs. Muthazhaghi G, *Chennai, Alumni Representative*
3. Dr. C.D. Naiju, Director, Students' Welfare, Vellore Campus
4. Mr. Ravishankar B, Assistant Dean, School of Hotel and Tourism Management, Vellore Campus
5. Dr. G. Kalaichelvan, Director, UG Admissions, Vellore Campus
6. Ms. Shrujana K, (21BBT0027), Student Council Member
7. Mr. Karthik Kumar Gounder, (21BCE3387), Student Council Member

Item 72/1	<b>Welcome by Vice Chancellor</b> Vice Chancellor-in-Charge welcomed all the members of the Academic Council.																																													
Item 72/2	<b>To consider and confirm the Minutes of the 70<sup>th</sup> and 71<sup>st</sup> meeting of the Academic Council.</b> <p style="text-align: right;"><i>(Annexure 1)</i></p> Comments arising out of the minutes of the 70 <sup>th</sup> and 71 <sup>st</sup> meeting of the Academic Council are none.  The Academic Council confirmed the above minutes.																																													
Item 72/3	<b>Action taken report on the minutes of 70<sup>th</sup> Meeting of the Academic Council (item no. 70/29) held on 24<sup>th</sup> June 2023.</b>  The Academic Council approved the following item and suggested to add practical / lab component to the course. <table border="1" style="width: 100%;"><thead><tr><th colspan="7">Discipline Core Course</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>BCLE317L</td><td>Building Information Modeling</td><td>2</td><td>0</td><td>0</td><td>2</td><td>NIL</td></tr></tbody></table> As per the suggestion, lab component added to the course. <table border="1" style="width: 100%;"><thead><tr><th colspan="8">Discipline Core Course</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><th>% of Changes made</th></tr></thead><tbody><tr><td>BCLE317E</td><td>Building Information Modeling</td><td>1</td><td>0</td><td>2</td><td>2</td><td>NIL</td><td>50%</td></tr></tbody></table> <p style="text-align: right;"><i>(Annexure 2)</i></p> The Academic Council considered and approved the same.	Discipline Core Course							Course Code	Course Title	L	T	P	C	Prerequisite	BCLE317L	Building Information Modeling	2	0	0	2	NIL	Discipline Core Course								Course Code	Course Title	L	T	P	C	Prerequisite	% of Changes made	BCLE317E	Building Information Modeling	1	0	2	2	NIL	50%
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Item 72/4	<b>4.1. To consider and approve the closure of the following Academic Programmes, due to reduction in student demand.</b> <ul style="list-style-type: none"><li>• Bachelor of Technology in Mechanical Engineering (Automotive Engineering) [AY 2024-2025]</li><li>• Master of Technology in Automotive Engineering [AY 2024-2025]</li></ul>																																													



	<p><b>4.2. To consider and approve the renaming of the Academic Programme which is to be offered as new programme.</b></p> <ul style="list-style-type: none"> <li>Master of Technology in Automotive Engineering renamed as Master of Technology in Smart Mobility with 36 intake strength from the Academic Year 2024-2025 onwards.</li> </ul> <p><b>The Academic Council considered and approved the same.</b></p>																																																																																				
Item 72/5	<p><b>To consider and approve the FFCS Academic Regulations 4.0. which incorporates the changes in the academic processes that have been approved till 71<sup>st</sup> Academic Council.</b></p> <p style="text-align: right;"><i>(Annexure 3)</i></p> <p><b>The Academic Council considered and approved the same.</b></p>																																																																																				
Item 72/6	<p><b>To consider and approve the new academic programme and curriculum of Master of Technology in Smart Mobility from the academic year 2024-25 onwards.</b></p> <p style="text-align: right;"><i>(Annexure 4)</i></p> <p><b>The Academic Council considered and approved the same.</b></p>																																																																																				
Item 72/7	<p><b>To consider and approve the new academic programme, curriculum and course contents of Master of Technology in Intelligent HVAC Systems Engineering (Offered to the employees of Lennox India Technology Centre Private Limited, Chennai, under Blended Learning Mode) from the academic year 2024-25 onwards.</b></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="7">Discipline 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>Prerequisite</th> </tr> </thead> <tbody> <tr> <td>MIHS501L</td> <td>HVAC Systems</td> <td>3</td> <td>1</td> <td>0</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>MIHS502L</td> <td>Computational Fluid and Solid Mechanics</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>MIHS502P</td> <td>Computational Fluid and Solid Mechanics Lab</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>NIL</td> </tr> <tr> <td>MIHS503L</td> <td>Control Systems</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>MIHS503P</td> <td>Control Systems Lab</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>NIL</td> </tr> <tr> <td>MIHS504L</td> <td>Systems Engineering</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>MIHS505L</td> <td>Intelligent IoT and its Applications</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>MIHS505P</td> <td>Intelligent IoT and its Applications Lab</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>NIL</td> </tr> <tr> <td>MIHS506L</td> <td>Artificial Intelligence and Machine Learning</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>MIHS506P</td> <td>Artificial Intelligence and Machine 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;"><i>(Annexure 5)</i></p> <p><b>The Academic Council considered and approved the same.</b></p>	Discipline Core Courses							Course Code	Course Title	L	T	P	C	Prerequisite	MIHS501L	HVAC Systems	3	1	0	4	NIL	MIHS502L	Computational Fluid and Solid Mechanics	3	0	0	3	NIL	MIHS502P	Computational Fluid and Solid Mechanics Lab	0	0	2	1	NIL	MIHS503L	Control Systems	3	0	0	3	NIL	MIHS503P	Control Systems Lab	0	0	2	1	NIL	MIHS504L	Systems Engineering	3	0	0	3	NIL	MIHS505L	Intelligent IoT and its Applications	3	0	0	3	NIL	MIHS505P	Intelligent IoT and its Applications Lab	0	0	2	1	NIL	MIHS506L	Artificial Intelligence and Machine Learning	3	0	0	3	NIL	MIHS506P	Artificial Intelligence and Machine Learning Lab	0	0	2	1	NIL
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Item 72/8	<p><b>To consider and approve the revised programme credit structure and curriculum of Master of Science in Physics from the academic year 2024-25 onwards.</b></p> <p><b>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. 40.9].</b></p> <p style="text-align: right;"><i>(Annexure 6)</i></p> <p><b>The Academic Council considered and approved the same.</b></p>																																																																																				

Item 72/9	<p>To consider and approve the revised programme credit structure and curriculum of Master of Science in Chemistry from the academic year 2024-25 onwards.</p> <p>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. 40.9].</p> <p style="text-align: right;">(Annexure 7)</p> <p>The Academic Council considered and approved the same.</p>																																																																																																																																																																															
Item 72/10	<p>To consider and approve the revised programme credit structure and curriculum of Master of Science in Data Science from the academic year 2024-25 onwards.</p> <p>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. 55.3.1].</p> <p style="text-align: right;">(Annexure 8)</p> <p>The Academic Council considered and approved the same.</p>																																																																																																																																																																															
Item 72/11	<p>To consider and approve the revised programme credit structure and curriculum of Master of Science in Business Statistics from the academic year 2024-25 onwards.</p> <p>The curriculum was approved in the 59<sup>th</sup> meeting of the Academic Council held on 24<sup>th</sup> September 2020 [Item No. 59.7.3].</p> <p style="text-align: right;">(Annexure 9)</p> <p>The Academic Council considered and approved the same.</p>																																																																																																																																																																															
Item 72/12	<p>To consider and approve the revised programme credit structure, curriculum and course contents of Master of Science in Biotechnology from the academic year 2024-25 onwards.</p> <p>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].</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7" style="text-align: center;">Discipline 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>Prerequisite</th> </tr> </thead> <tbody> <tr><td>PBIT501L</td><td>Microbiology</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBIT501P</td><td>Microbiology Lab</td><td>0</td><td>0</td><td>2</td><td>1</td><td>NIL</td></tr> <tr><td>PBIT502L</td><td>Advanced Biochemistry</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBIT502P</td><td>Advanced Biochemistry Lab</td><td>0</td><td>0</td><td>2</td><td>1</td><td>NIL</td></tr> <tr><td>PBIT503L</td><td>Cell and Molecular Biology</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBIT503P</td><td>Cell and Molecular Biology Lab</td><td>0</td><td>0</td><td>2</td><td>1</td><td>NIL</td></tr> <tr><td>PBIT504L</td><td>Immunology</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBIT505L</td><td>Analytical Techniques in Biotechnology</td><td>2</td><td>0</td><td>0</td><td>2</td><td>NIL</td></tr> <tr><td>PBIT505P</td><td>Analytical Techniques in Biotechnology Lab</td><td>0</td><td>0</td><td>2</td><td>1</td><td>NIL</td></tr> <tr><td>PBIT506L</td><td>Bioinformatics</td><td>2</td><td>0</td><td>0</td><td>2</td><td>NIL</td></tr> <tr><td>PBIT506P</td><td>Bioinformatics Lab</td><td>0</td><td>0</td><td>2</td><td>1</td><td>NIL</td></tr> <tr><td>PBIT507L</td><td>Biostatistics and Research Methodology</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBMG508L</td><td>Genetic Engineering</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBMG508P</td><td>Genetic Engineering Lab</td><td>0</td><td>0</td><td>2</td><td>1</td><td>NIL</td></tr> <tr> <th colspan="7" style="text-align: center;">Discipline Electives</th> </tr> <tr><td>PBIT601L</td><td>Medical Diagnostics</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBIT602L</td><td>Tissue Engineering and Regenerative Medicine</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBIT603L</td><td>Medical Biotechnology</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBIT604L</td><td>Industrial Biotechnology</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBIT605L</td><td>Cancer Biology and Therapeutics</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBIT606L</td><td>Stem Cell Biology</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBIT607L</td><td>Clinical and Translational Research</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBIT608L</td><td>Forensic Science and Technology</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> </tbody> </table>	Discipline Core Courses							Course Code	Course Title	L	T	P	C	Prerequisite	PBIT501L	Microbiology	3	0	0	3	NIL	PBIT501P	Microbiology Lab	0	0	2	1	NIL	PBIT502L	Advanced Biochemistry	3	0	0	3	NIL	PBIT502P	Advanced Biochemistry Lab	0	0	2	1	NIL	PBIT503L	Cell and Molecular Biology	3	0	0	3	NIL	PBIT503P	Cell and Molecular Biology Lab	0	0	2	1	NIL	PBIT504L	Immunology	3	0	0	3	NIL	PBIT505L	Analytical Techniques in Biotechnology	2	0	0	2	NIL	PBIT505P	Analytical Techniques in Biotechnology Lab	0	0	2	1	NIL	PBIT506L	Bioinformatics	2	0	0	2	NIL	PBIT506P	Bioinformatics Lab	0	0	2	1	NIL	PBIT507L	Biostatistics and Research Methodology	3	0	0	3	NIL	PBMG508L	Genetic Engineering	3	0	0	3	NIL	PBMG508P	Genetic Engineering Lab	0	0	2	1	NIL	Discipline Electives							PBIT601L	Medical Diagnostics	3	0	0	3	NIL	PBIT602L	Tissue Engineering and Regenerative Medicine	3	0	0	3	NIL	PBIT603L	Medical Biotechnology	3	0	0	3	NIL	PBIT604L	Industrial Biotechnology	3	0	0	3	NIL	PBIT605L	Cancer Biology and Therapeutics	3	0	0	3	NIL	PBIT606L	Stem Cell Biology	3	0	0	3	NIL	PBIT607L	Clinical and Translational Research	3	0	0	3	NIL	PBIT608L	Forensic Science and Technology	3	0	0	3	NIL
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PBIT609L	Pharmacology and Toxicology	3	0	0	3	NIL
PBIT610L	Medical Informatics	3	0	0	3	NIL
PBIT611L	Nutraceuticals	3	0	0	3	NIL
PBIT612L	Marine Biotechnology	3	0	0	3	NIL
PBIT613L	Nanobiotechnology	3	0	0	3	NIL
PBIT614L	Applied Enzyme Technology	3	0	0	3	NIL
PBIT615L	Metabolic Engineering	3	0	0	3	NIL
PBIT616L	Plant Biotechnology	3	0	0	3	NIL
PBIT617L	Bioremediation	3	0	0	3	NIL
PBIT618L	Genomics and Proteomics	3	0	0	3	NIL
PBIT619L	Signal Transduction	3	0	0	3	NIL
PBIT620L	Cellular and Molecular Biophysics	3	0	0	3	NIL

(Annexure 10)

The Academic Council considered and approved the same.

Item  
72/13

To consider and approve the revised programme credit structure, curriculum and course content of Master of Science in Applied Microbiology from the academic year 2024-25 onwards.

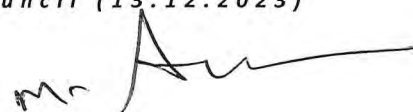
The curriculum was approved in the 40<sup>th</sup> meeting of the Academic Council held on 18<sup>th</sup> March 2016 [Item No. 40.5].

Discipline Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
PAMB501L	Advanced Microbiology	3	0	0	3	NIL
PAMB502L	Microbial Physiology and Metabolism	3	0	0	3	NIL
PAMB502P	Microbial Physiology and Metabolism Lab	0	0	2	1	NIL
PAMB503L	Immunology and Immunotechnology	3	0	0	3	NIL
PAMB503P	Advanced Microbiology and Immunology Lab	0	0	2	1	NIL
PAMB504L	Molecular Biology	3	0	0	3	NIL
PAMB505L	rDNA Technology	3	0	0	3	PAMB504L
PAMB505P	Molecular Biology and rDNA Technology Lab	0	0	2	1	PAMB504L
PAMB506L	Analytical Techniques and QC	3	0	0	3	NIL
PAMB507L	Industrial Microbiology	3	0	0	3	NIL
PAMB507P	Industrial Microbiology Lab	0	0	2	1	NIL
PBIT507L	Biostatistics and Research Methodology	3	0	0	3	NIL
Discipline Electives						
PBIT506L	Bioinformatics	2	0	0	2	NIL
PBIT506P	Bioinformatics Lab	0	0	2	1	NIL
PBIT613L	Nanobiotechnology	3	0	0	3	NIL
PAMB601L	Environmental Microbiology	3	0	0	3	NIL
PAMB602L	Diagnostic Microbiology	3	0	0	3	PAMB501L
PAMB603L	Probiotics Technology	3	0	0	3	NIL
PAMB604L	GxPs, Industrial Standards and Guidelines	3	0	0	3	NIL
PAMB605L	Pharmaceutical Biotechnology	3	0	0	3	NIL
PAMB606L	Soil and Agricultural Microbiology	3	0	0	3	NIL
PAMB607L	Marine Microbiology	3	0	0	3	NIL
PAMB608L	Bio Business and Entrepreneurship	3	0	0	3	NIL
PAMB609L	Medical Microbiology	3	0	0	3	NIL
PAMB610L	Fungal Technology	3	0	0	3	NIL
PAMB611L	Food Microbiology	3	0	0	3	NIL
PAMB612L	Virology	3	0	0	3	NIL
PAMB613L	Vaccinology	3	0	0	3	NIL
PBMG607L	Artificial Intelligence in Healthcare	3	0	0	3	NIL

(Annexure 11)

The Academic Council considered and approved the same.

Item 72/14	<p>To consider and approve the revised programme credit structure, curriculum and course content of Master of Science in Biomedical Genetics from the academic year 2024-25 onwards.</p> <p>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].</p> <table border="1" data-bbox="272 322 1433 1550"> <thead> <tr> <th colspan="7">Discipline 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>Prerequisite</th> </tr> </thead> <tbody> <tr><td>PBMG501L</td><td>Human Genetics</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBMG502L</td><td>Molecular Genetics</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBMG503L</td><td>Biochemical Genetics</td><td>2</td><td>0</td><td>0</td><td>2</td><td>NIL</td></tr> <tr><td>PBMG503P</td><td>Molecular and Biochemical Genetics Lab</td><td>0</td><td>0</td><td>2</td><td>1</td><td>NIL</td></tr> <tr><td>PBMG504L</td><td>Developmental Genetics</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBMG505L</td><td>Clinical Cytogenetics</td><td>2</td><td>0</td><td>0</td><td>2</td><td>NIL</td></tr> <tr><td>PBMG505P</td><td>Clinical Cytogenetics Lab</td><td>0</td><td>0</td><td>2</td><td>1</td><td>NIL</td></tr> <tr><td>PBMG506L</td><td>Cancer Genetics</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBMG507L</td><td>Human Immunology</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBMG508L</td><td>Genetic Engineering</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBMG508P</td><td>Genetic Engineering Lab</td><td>0</td><td>0</td><td>2</td><td>1</td><td>NIL</td></tr> <tr><td>PBIT507L</td><td>Biostatistics and Research Methodology</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr> <th colspan="7">Discipline Electives</th> </tr> <tr><td>PBIT506L</td><td>Bioinformatics</td><td>2</td><td>0</td><td>0</td><td>2</td><td>NIL</td></tr> <tr><td>PBIT506P</td><td>Bioinformatics Lab</td><td>0</td><td>0</td><td>2</td><td>1</td><td>NIL</td></tr> <tr><td>PBIT606L</td><td>Stem Cell Biology</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBIT608L</td><td>Forensic Science and Technology</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBMG601L</td><td>Human Anatomy and Physiology</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBMG602L</td><td>Advanced Analytical Techniques</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBMG603L</td><td>Biochemistry</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBMG604L</td><td>Reproductive Genetics</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBMG605L</td><td>Genomics and Precision Medicine</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBMG606L</td><td>Environmental Genetics</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBMG607L</td><td>Artificial Intelligence in Healthcare</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBMG608L</td><td>Epidemiology</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBMG609L</td><td>Neurobiology</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBMG610L</td><td>Population Genetics</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>PBMG611L</td><td>Behavioral Genetics</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr> <th colspan="7">Genetic Counseling</th> </tr> <tr><td>PBMG612L</td><td>Ethical, Legal and Social Issues in Genetic Counseling</td><td>3</td><td>0</td><td>0</td><td>3</td><td>PBMG505L, PBMG505P</td></tr> <tr><td>PBMG613L</td><td>Human Psychology</td><td>3</td><td>0</td><td>0</td><td>3</td><td></td></tr> <tr><td>PBMG614L</td><td>Genetic Counseling</td><td>3</td><td>0</td><td>0</td><td>3</td><td>PBMG505L, PBMG505P</td></tr> <tr><td>PBMG615L</td><td>Clinical Rotation</td><td>3</td><td>0</td><td>0</td><td>3</td><td></td></tr> </tbody> </table> <p style="text-align: right;">(Annexure 12)</p> <p>The Academic Council considered and approved the same.</p>	Discipline Core Courses							Course Code	Course Title	L	T	P	C	Prerequisite	PBMG501L	Human Genetics	3	0	0	3	NIL	PBMG502L	Molecular Genetics	3	0	0	3	NIL	PBMG503L	Biochemical Genetics	2	0	0	2	NIL	PBMG503P	Molecular and Biochemical Genetics Lab	0	0	2	1	NIL	PBMG504L	Developmental Genetics	3	0	0	3	NIL	PBMG505L	Clinical Cytogenetics	2	0	0	2	NIL	PBMG505P	Clinical Cytogenetics Lab	0	0	2	1	NIL	PBMG506L	Cancer Genetics	3	0	0	3	NIL	PBMG507L	Human Immunology	3	0	0	3	NIL	PBMG508L	Genetic Engineering	3	0	0	3	NIL	PBMG508P	Genetic Engineering Lab	0	0	2	1	NIL	PBIT507L	Biostatistics and Research Methodology	3	0	0	3	NIL	Discipline Electives							PBIT506L	Bioinformatics	2	0	0	2	NIL	PBIT506P	Bioinformatics Lab	0	0	2	1	NIL	PBIT606L	Stem Cell Biology	3	0	0	3	NIL	PBIT608L	Forensic Science and Technology	3	0	0	3	NIL	PBMG601L	Human Anatomy and Physiology	3	0	0	3	NIL	PBMG602L	Advanced Analytical Techniques	3	0	0	3	NIL	PBMG603L	Biochemistry	3	0	0	3	NIL	PBMG604L	Reproductive Genetics	3	0	0	3	NIL	PBMG605L	Genomics and Precision Medicine	3	0	0	3	NIL	PBMG606L	Environmental Genetics	3	0	0	3	NIL	PBMG607L	Artificial Intelligence in Healthcare	3	0	0	3	NIL	PBMG608L	Epidemiology	3	0	0	3	NIL	PBMG609L	Neurobiology	3	0	0	3	NIL	PBMG610L	Population Genetics	3	0	0	3	NIL	PBMG611L	Behavioral Genetics	3	0	0	3	NIL	Genetic Counseling							PBMG612L	Ethical, Legal and Social Issues in Genetic Counseling	3	0	0	3	PBMG505L, PBMG505P	PBMG613L	Human Psychology	3	0	0	3		PBMG614L	Genetic Counseling	3	0	0	3	PBMG505L, PBMG505P	PBMG615L	Clinical Rotation	3	0	0	3	
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PBMG612L	Ethical, Legal and Social Issues in Genetic Counseling	3	0	0	3	PBMG505L, PBMG505P																																																																																																																																																																																																																																																
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PBMG615L	Clinical Rotation	3	0	0	3																																																																																																																																																																																																																																																	
Item 72/15	<p>To consider and approve the revised programme credit structure and curriculum of Bachelor of Design in Industrial Design from the academic year 2024-25 onwards.</p> <p>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. 49.5.2].</p> <p style="text-align: right;">(Annexure 13)</p> <p>The Academic Council considered and approved the same.</p>																																																																																																																																																																																																																																																					



Item 72/16	<p>To consider and approve the revised programme credit structure and curriculum of Master of Design in Industrial Design from the academic year 2024-25 onwards.</p> <p>The curriculum was approved in the 41<sup>st</sup> meeting of the Academic Council held on 17<sup>th</sup> June 2016 [Item No. 41.7].</p> <p style="text-align: right;">(Annexure 14)</p> <p>The Academic Council considered and approved the same.</p>																																																																																																																																																																																																											
Item 72/17	<p>To consider and approve the revised curriculum and course contents of Master of Technology in Power Electronics and Drives.</p> <p>The curriculum was approved in the 67<sup>th</sup> meeting of the Academic Council held on 8<sup>th</sup> August 2022 [Item No. 67/26].</p> <table border="1" data-bbox="271 604 1428 1724"> <thead> <tr> <th colspan="7">Discipline 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>Prerequisite</th> </tr> </thead> <tbody> <tr><td>MPED501L</td><td>Advanced Semiconductor Devices</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>MPED502L</td><td>Analysis of Power Converters</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>MPED502P</td><td>Analysis of Power Converters Lab</td><td>0</td><td>0</td><td>2</td><td>1</td><td>NIL</td></tr> <tr><td>MPED505L</td><td>Industrial Electrical Drives</td><td>3</td><td>0</td><td>0</td><td>3</td><td>MPED509L</td></tr> <tr><td>MPED505P</td><td>Industrial Electrical Drives Lab</td><td>0</td><td>0</td><td>2</td><td>1</td><td>MPED509L</td></tr> <tr><td>MPED507L</td><td>Advanced Processors for Power Converters</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>MPED507P</td><td>Advanced Processors for Power Converters Lab</td><td>0</td><td>0</td><td>2</td><td>1</td><td>NIL</td></tr> <tr><td>MPED508L</td><td>Switch Mode Power Conversion</td><td>2</td><td>0</td><td>0</td><td>2</td><td>MPED502L, MPED502P</td></tr> <tr><td>MPED509L</td><td>Electric Drives and Control</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>MPED510L</td><td>Embedded Systems Design for Power Electronic Applications</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>MPED510P</td><td>Embedded Systems Design for Power Electronic Applications Lab</td><td>0</td><td>0</td><td>2</td><td>1</td><td>NIL</td></tr> <tr> <th colspan="7">Discipline Electives</th> </tr> <tr><td>MPED603L</td><td>Energy Storage Systems</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>MPED606L</td><td>Wind Energy Conversion Systems</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>MPED612L</td><td>Hybrid and Electric Vehicles</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>MPED613L</td><td>Intelligent Learning Techniques</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>MPED614L</td><td>Smart Microgrids</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>MPED615L</td><td>EMI and EMC in Power Converters</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>MPED616L</td><td>Intelligent and Connected Vehicles</td><td>3</td><td>0</td><td>0</td><td>3</td><td>MPED612L</td></tr> <tr><td>MPED617L</td><td>Solar Photovoltaic Conversion Systems</td><td>3</td><td>0</td><td>0</td><td>3</td><td>MPED502L, MPED502P</td></tr> <tr><td>MPED618L</td><td>Application of Power Electronics to Power System</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>MPED619L</td><td>FPGA for Power Electronic Converters</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>MPED620L</td><td>Real-Time Interface for Power Converters</td><td>2</td><td>0</td><td>0</td><td>2</td><td>NIL</td></tr> <tr><td>MPED620P</td><td>Real-Time Interface for Power Converters Lab</td><td>0</td><td>0</td><td>2</td><td>1</td><td>NIL</td></tr> <tr><td>MPED621L</td><td>Control System Design</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>MPED622L</td><td>Industrial IoT</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> <tr><td>MPED623L</td><td>Battery Management System</td><td>3</td><td>0</td><td>0</td><td>3</td><td>NIL</td></tr> </tbody> </table> <p style="text-align: right;">(Annexure 15)</p> <p>The Academic Council considered and approved the same.</p>	Discipline Core Courses							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	MPED505L	Industrial Electrical Drives	3	0	0	3	MPED509L	MPED505P	Industrial Electrical Drives Lab	0	0	2	1	MPED509L	MPED507L	Advanced Processors for Power Converters	3	0	0	3	NIL	MPED507P	Advanced Processors for Power Converters Lab	0	0	2	1	NIL	MPED508L	Switch Mode Power Conversion	2	0	0	2	MPED502L, MPED502P	MPED509L	Electric Drives and Control	3	0	0	3	NIL	MPED510L	Embedded Systems Design for Power Electronic Applications	3	0	0	3	NIL	MPED510P	Embedded Systems Design for Power Electronic Applications Lab	0	0	2	1	NIL	Discipline Electives							MPED603L	Energy Storage Systems	3	0	0	3	NIL	MPED606L	Wind Energy Conversion Systems	3	0	0	3	NIL	MPED612L	Hybrid and Electric Vehicles	3	0	0	3	NIL	MPED613L	Intelligent Learning Techniques	3	0	0	3	NIL	MPED614L	Smart Microgrids	3	0	0	3	NIL	MPED615L	EMI and EMC in Power Converters	3	0	0	3	NIL	MPED616L	Intelligent and Connected Vehicles	3	0	0	3	MPED612L	MPED617L	Solar Photovoltaic Conversion Systems	3	0	0	3	MPED502L, MPED502P	MPED618L	Application of Power Electronics to Power System	3	0	0	3	NIL	MPED619L	FPGA for Power Electronic Converters	3	0	0	3	NIL	MPED620L	Real-Time Interface for Power Converters	2	0	0	2	NIL	MPED620P	Real-Time Interface for Power Converters Lab	0	0	2	1	NIL	MPED621L	Control System Design	3	0	0	3	NIL	MPED622L	Industrial IoT	3	0	0	3	NIL	MPED623L	Battery Management System	3	0	0	3	NIL
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MPED502L	Analysis of Power Converters	3	0	0	3	NIL																																																																																																																																																																																																						
MPED502P	Analysis of Power Converters Lab	0	0	2	1	NIL																																																																																																																																																																																																						
MPED505L	Industrial Electrical Drives	3	0	0	3	MPED509L																																																																																																																																																																																																						
MPED505P	Industrial Electrical Drives Lab	0	0	2	1	MPED509L																																																																																																																																																																																																						
MPED507L	Advanced Processors for Power Converters	3	0	0	3	NIL																																																																																																																																																																																																						
MPED507P	Advanced Processors for Power Converters Lab	0	0	2	1	NIL																																																																																																																																																																																																						
MPED508L	Switch Mode Power Conversion	2	0	0	2	MPED502L, MPED502P																																																																																																																																																																																																						
MPED509L	Electric Drives and Control	3	0	0	3	NIL																																																																																																																																																																																																						
MPED510L	Embedded Systems Design for Power Electronic Applications	3	0	0	3	NIL																																																																																																																																																																																																						
MPED510P	Embedded Systems Design for Power Electronic Applications Lab	0	0	2	1	NIL																																																																																																																																																																																																						
Discipline Electives																																																																																																																																																																																																												
MPED603L	Energy Storage Systems	3	0	0	3	NIL																																																																																																																																																																																																						
MPED606L	Wind Energy Conversion Systems	3	0	0	3	NIL																																																																																																																																																																																																						
MPED612L	Hybrid and Electric Vehicles	3	0	0	3	NIL																																																																																																																																																																																																						
MPED613L	Intelligent Learning Techniques	3	0	0	3	NIL																																																																																																																																																																																																						
MPED614L	Smart Microgrids	3	0	0	3	NIL																																																																																																																																																																																																						
MPED615L	EMI and EMC in Power Converters	3	0	0	3	NIL																																																																																																																																																																																																						
MPED616L	Intelligent and Connected Vehicles	3	0	0	3	MPED612L																																																																																																																																																																																																						
MPED617L	Solar Photovoltaic Conversion Systems	3	0	0	3	MPED502L, MPED502P																																																																																																																																																																																																						
MPED618L	Application of Power Electronics to Power System	3	0	0	3	NIL																																																																																																																																																																																																						
MPED619L	FPGA for Power Electronic Converters	3	0	0	3	NIL																																																																																																																																																																																																						
MPED620L	Real-Time Interface for Power Converters	2	0	0	2	NIL																																																																																																																																																																																																						
MPED620P	Real-Time Interface for Power Converters Lab	0	0	2	1	NIL																																																																																																																																																																																																						
MPED621L	Control System Design	3	0	0	3	NIL																																																																																																																																																																																																						
MPED622L	Industrial IoT	3	0	0	3	NIL																																																																																																																																																																																																						
MPED623L	Battery Management System	3	0	0	3	NIL																																																																																																																																																																																																						
Item 72/18	<p>To consider and approve the revised programme credit structure, curriculum and course contents of Master of Business Administration offered by VIT Online Learning Institute (VITOL) from the year 2024 onwards.</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. 64/12].

Discipline Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
OLMBA501	Principles of Management	3	1	0	4	NIL
OLMBA502	Managerial Economics	3	1	0	4	NIL
OLMBA503	Financial Accounting	3	1	0	4	NIL
OLMBA504	Data Analytics	3	1	0	4	NIL
OLMBA505	Business Communication	3	1	0	4	NIL
OLMBA506	Human Resource Management	3	1	0	4	NIL
OLMBA507	Marketing Management	3	1	0	4	NIL
OLMBA508	Operations Management	3	1	0	4	NIL
OLMBA509	Strategic Management	3	1	0	4	NIL
OLMBA510	Financial Management	3	1	0	4	NIL
Discipline Electives						
OLMBA601	Organizational Behaviour	3	1	0	4	NIL
OLMBA602	Knowledge Management	3	1	0	4	NIL
OLMBA603	Leadership and Team Building	3	1	0	4	NIL
OLMBA604	Consumer Behaviour	3	1	0	4	NIL
OLMBA605	Retail Management	3	1	0	4	NIL
OLMBA606	Digital Marketing	3	1	0	4	NIL
OLMBA607	Materials Management	3	1	0	4	NIL
OLMBA608	Logistics and Supply Chain Management	3	1	0	4	NIL
OLMBA609	Indian Financial System	3	1	0	4	NIL
OLMBA610	Security Analysis and Portfolio Management	3	1	0	4	NIL
OLMBA611	Marketing Analytics	3	1	0	4	NIL
OLMBA612	Business Analytics	3	1	0	4	NIL
OLMBA613	Supply Chain Analytics	3	1	0	4	NIL
OLMBA614	Legal Aspects of Business	3	1	0	4	NIL
Project						
OLMBA699	Project				12	NIL

(Annexure 16)

The Academic Council considered and approved the same.

Item  
72/19

To consider and approve the inclusion of sixty one (61) NPTEL Courses Under University/Open 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].

(Annexure 17)

The Academic Council considered and approved the same.

Item  
72/20

To consider and approve the course contents for the courses of Integrated Master of Science in Mathematics.

The curriculum was approved in the 62<sup>nd</sup> meeting of the Academic Council held on 15<sup>th</sup> July 2021 [Item No. 62/11]

Foundation Core Course						
Course Code	Course Title	L	T	P	C	Prerequisite
TMGT401L	Principles of Management	3	0	0	3	NIL
Discipline Core Courses						
TMAT401L	Calculus of Variations and Integral Equations	3	1	0	4	TMAT204L
TMAT402L	Graph Theory	3	1	0	4	TMAT303L
TMAT403L	Functional Analysis	3	1	0	4	TMAT202L TMAT203L
TMAT404L	Partial Differential Equations	3	1	0	4	TMAT204L
TMAT405L	Transform Techniques	3	1	0	4	TMAT104L
TMAT406L	Measure and Integration	3	1	0	4	TMAT203L
TMAT407L	Statistical Inference	3	0	0	3	TMAT201L TMAT201P
TMAT407P	Statistical Inference Lab	0	0	2	1	TMAT201L TMAT201P
Discipline Electives						
TMAT408L	Advanced Abstract Algebra	3	0	0	3	TMAT302L
TMAT409L	Advanced Complex Analysis	3	0	0	3	TMAT205L
TMAT410L	Numerical Solution of Partial Differential Equations	3	0	0	3	TMAT404L
TMAT411L	Stochastic Processes	3	0	0	3	NIL
TMAT412L	Magnetohydrodynamics	3	0	0	3	NIL
TMAT413L	Fractional Calculus	3	0	0	3	NIL
TMAT414L	Finite Element Methods	3	0	0	3	NIL
TMAT415L	Sobolev Spaces	3	0	0	3	TMAT403L
TMAT416L	Computational Fluid Dynamics	3	0	0	3	TMAT404L
TMAT417L	Mathematical Modelling and Simulation	3	0	0	3	TMAT204L
TMAT418L	Infinite Dimensional optimization and Control theory	3	0	0	3	NIL
Skill Enhancement Elective Courses						
TCSE202P	Scientific Computing Lab	0	0	4	2	NIL
TCSE203P	Data Analysis Lab	0	0	4	2	NIL
Open Elective Courses						
TMAT419L	Exploratory Data Analysis and Visualisation	3	0	0	3	NIL
TMAT420L	Artificial Intelligence	3	0	0	3	NIL
TMAT421L	Neural Networks	3	0	0	3	NIL
TMAT422L	Machine Learning	3	0	0	3	NIL
TMAT423L	Quantum Computing	3	0	0	3	NIL
TMAT424L	Deep Learning	3	0	0	3	NIL
TMAT425L	Data Analytics	3	0	0	3	NIL
Project and Internship						
TMAT497J	Project				2	NIL
TMAT498J	Research Project I				4	NIL
TMAT499J	Research Project II / Internship				8	NIL

(Annexure 18)

The Academic Council considered and approved the same.

Item  
72/21

To consider and approve the change in the course contents for the course of Master of Technology in Construction Technology and Management and Master of Technology in Structural Engineering.

The curriculum was approved in the 67<sup>th</sup> meeting of the Academic Council held on 8<sup>th</sup> August 2022 [Item No. 67/22, 23.

*Mr. [Signature]*

Discipline Core Course						
Course Code	Course Title	L	T	P	C	% of Changes Made
MMAT501L	Advanced Statistical Methods	2	0	0	2	30%

*(Annexure 19)*

The Academic Council considered and approved the same.

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Discipline Electives						
Course Code	Course Title	L	T	P	C	Prerequisite
OLMDS601	Big Data Analytics	3	1	0	4	NIL
OLMDS602	Multivariate Data Analysis	3	1	0	4	OLMDS502
OLMDS604	Programming in Java	3	1	0	4	NIL
OLMDS605	Econometric Analysis	3	1	0	4	OLMDS502
OLMDS606	Web and Social Media Analytics	3	1	0	4	NIL
OLMDS607	Financial Data Analytics	3	1	0	4	NIL
OLMDS608	Risk Analytics	3	1	0	4	OLMDS502
OLMDS609	Supply chain Analytics	3	1	0	4	NIL
OLMDS610	Marketing Analytics	3	1	0	4	NIL

Discipline Core Course						
OLMDS699	Project	0	0	0	12	NIL

*(Annexure 20)*

The Academic Council considered and approved the same.

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Discipline Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
OLBCA201	Object Oriented Programming : C++	5	1	0	6	NIL
OLBCA202	Digital Logic and Design	5	1	0	6	NIL
OLBCA203	Software Engineering	5	1	0	6	NIL
OLBCA204	Database Management Systems	5	1	0	6	NIL
OLBCA301	Computer Networks	5	1	0	6	NIL
OLBCA303	Programming in Java	5	1	0	6	NIL

Skill Enhancement Courses						
OLBCA205	Mobile Application Development	3	1	0	4	NIL
OLBCA206	Multimedia Systems	3	1	0	4	NIL
OLBCA304	Cyber Security	3	1	0	4	NIL

Discipline Electives						
OLBCA305	Artificial Intelligence	5	1	0	6	NIL

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OLBCA306	Cloud Computing	5	1	0	6	NIL
OLBCA307	Machine Learning	5	1	0	6	NIL
OLBCA308	Web Programming	5	1	0	6	NIL
OLBCA309	Embedded systems and Internet of Things	5	1	0	6	NIL
OLBCA310	Optimization Techniques	5	1	0	6	NIL
OLBCA311	Digital Image Processing	5	1	0	6	NIL
OLBCA312	User Experience Design	5	1	0	6	NIL
OLBCA313	Open Source Programming	5	1	0	6	NIL
OLBCA314	Computer Architecture	5	1	0	6	NIL

(Annexure 21)

The Academic Council considered and approved the same.

Item  
72/24

To consider and approve the course contents for the courses of Master of Computer Applications 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. 64/11.

Discipline Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
OLMCA509	Programming In Java	3	1	0	4	NIL
OLMCA698	Seminar	0	0	0	2	NIL
OLMCA699	Project	0	0	0	14	NIL
Discipline Electives						
OLMCA602	Machine Learning	3	1	0	4	NIL
OLMCA603	Cyber Security	3	1	0	4	NIL
OLMCA604	Software Quality Assurance and Reliability	3	1	0	4	NIL
OLMCA605	Virtual and Augmented Reality	3	1	0	4	NIL
OLMCA606	Big Data Analytics	3	1	0	4	NIL
OLMCA607	Computer Architecture	3	1	0	4	NIL
OLMCA609	Cyber Forensics	3	1	0	4	NIL
OLMCA610	Blockchain Technologies	3	1	0	4	NIL
OLMCA611	Data Mining Techniques	3	1	0	4	NIL

(Annexure 22)

The Academic Council considered and approved the same.

Item  
72/25

To consider and approve the course contents for the courses of Bachelor of Technology in Electronics Engineering (VLSI Design & Technology).

Discipline-linked Engineering Science Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
BEVD101L	Electronic Materials	3	0	0	3	NIL
BEVD201L	Physics of Semiconductor Devices	3	0	0	3	NIL
Discipline Core Courses						
BEVD202L	Electromagnetic Field Theory	3	0	0	3	NIL
BEVD203L	Signal Processing	3	0	0	3	BMAT102L
BEVD204L	Electronic Circuits	3	0	0	3	BEVD201L
BEVD204P	Electronic Circuits Lab	0	0	2	1	BEVD201L
BEVD205L	Scripting Languages and Verification	3	0	0	3	BECE102L BECE102P
BEVD205P	Scripting Languages and Verification Lab	0	0	2	1	BECE102L BECE102P
BEVD206L	Semiconductor Device Modelling	2	0	0	2	BEVD201L

	BEVD206P	Semiconductor Device Modelling Lab	0	0	2	1	BEVD201L
	BEVD207L	Computer Architecture	3	0	0	3	NIL
	BEVD302L	Principles of Communication Systems	3	0	0	3	NIL
	<i>(Annexure 23)</i>						
	The Academic Council considered and approved the same.						
Item 72/26	To consider and approve the introduction of a new course with its contents for the programmes, Bachelor of Technology in Electronics and Communication Engineering; Bachelor of Technology in Electronics and Computer Engineering; Bachelor of Technology in Electrical and Electronics Engineering; Bachelor of Technology in Electronics and Instrumentation Engineering; Bachelor of Technology in Electronics Engineering (VLSI Design and Technology) and Bachelor of Technology in Electrical and Computer Science Engineering.						
	<b>Discipline Elective</b>						
	Course Code	Course Title	L	T	P	C	Prerequisite
	BECE320E	Embedded C Programming	2	0	2	3	NIL
	<i>(Annexure 24)</i>						
	The Academic Council considered and approved the same.						
Item 72/27	To consider and approve the course contents for the courses of Master of Technology in Electronics and Communication Engineering (Intelligent Communication Systems).						
	The curriculum was approved in the 69 <sup>th</sup> meeting of the Academic Council held on 16 <sup>th</sup> March 2023 [Item No. 69/7].						
	<b>Discipline Elective</b>						
	Course Code	Course Title	L	T	P	C	Prerequisite
	MEIC606L	Reconfigurable System on a Chip	3	0	0	3	NIL
	<b>Project and Internship</b>						
	MEIC696J	Study Oriented Project				2	NIL
	MEIC697J	Design Project				2	NIL
	MEIC698J	Internship I/ Dissertation I				10	NIL
	MEIC699J	Internship II/ Dissertation II				12	NIL
	<i>(Annexure 25)</i>						
	The Academic Council considered and approved the same.						
Item 72/28	To consider and approve the course contents for the courses of Bachelor of Commerce.						
	The curriculum was approved in the 69 <sup>th</sup> meeting of the Academic Council held on 16 <sup>th</sup> March 2023 [Item No. 69/17].						
	<b>Discipline Core Courses</b>						
	Course Code	Course Title	L	T	P	C	Prerequisite
	UCCA201L	Corporate Accounting	4	0	0	4	NIL
	UCCA202L	Corporate Law	3	0	0	3	NIL
	UCCA203L	Financial Management	3	0	0	3	NIL
	UCCA204L	Cost Accounting	4	0	0	4	NIL
	UCCA205L	Management Accounting	3	0	0	3	NIL
	UCCA206L	Indirect Taxation	3	0	0	3	NIL
	UCCA209L	Banking Theory and Practice	3	0	0	3	NIL
	<b>Discipline Electives</b>						
	UCCA108L	Human Resource Management	3	0	0	3	NIL
	UCCA109L	Advanced Financial Accounting	3	0	0	3	UCCA102L

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UCCA111L	Entrepreneurship Development	3	0	0	3	NIL
UCCA210L	Audit and Assurance	3	0	0	3	NIL
UCCA211L	Performance Management	3	0	0	3	NIL
UCCA214L	Financial Reporting	4	0	0	4	NIL
<b>Open Elective Course</b>						
UCSC326E	Data Analysis with Python	2	0	2	3	NIL

(Annexure 26)

The Academic Council considered and approved the same.

Item  
72/29

To consider and approve the course contents for the courses of Bachelor of Commerce (Business Process Services).

The curriculum was approved in the 69<sup>th</sup> meeting of the Academic Council held on 16<sup>th</sup> March 2023 [Item No. 69/9].

Discipline Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
UCCA201L	Corporate Accounting	4	0	0	4	NIL
UCCA202L	Corporate Law	3	0	0	3	NIL
UCCA203L	Financial Management	3	0	0	3	NIL
UCCA204L	Cost Accounting	4	0	0	4	NIL
UCCA205L	Management Accounting	3	0	0	3	NIL
UCCA206L	Indirect Taxation	3	0	0	3	NIL
UCCA209L	Banking Theory and Practice	3	0	0	3	NIL
Specialization Electives						
UCCA108L	Human Resource Management	3	0	0	3	NIL
UCCA109L	Advanced Financial Accounting	3	0	0	3	UCCA102L
UCCA111L	Entrepreneurship Development	3	0	0	3	NIL
UCCA210L	Audit and Assurance	3	0	0	3	NIL
UCCA211L	Performance Management	3	0	0	3	NIL
UCCA214L	Financial Reporting	4	0	0	4	NIL
UCCA132L	Finance and Accounts for BPS	4	0	0	4	UCCA102L
UCCA237L	Retail Marketing and Research	3	0	0	3	UCCA103L
UCCA339L	Banking Operations	3	0	0	3	UCCA209L
UCCA331L	Insurance Products and Regulations	4	0	0	4	NIL

(Annexure 27)

The Academic Council considered and approved the same.

Item  
72/30

To consider and approve the course contents for the courses of Bachelor of Commerce (Banking and Capital Markets)

The curriculum was approved in the 69<sup>th</sup> meeting of the Academic Council held on 16<sup>th</sup> March 2023 [Item No. 69/10].

Discipline Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
UCCA201L	Corporate Accounting	4	0	0	4	NIL
UCCA202L	Corporate Law	3	0	0	3	NIL
UCCA203L	Financial Management	3	0	0	3	NIL
UCCA204L	Cost Accounting	4	0	0	4	NIL
UCCA205L	Management Accounting	3	0	0	3	NIL
UCCA206L	Indirect Taxation	3	0	0	3	NIL
UCCA209L	Banking Theory and Practice	3	0	0	3	NIL



Specialization Electives						
UCCA108L	Human Resource Management	3	0	0	3	NIL
UCCA109L	Advanced Financial Accounting	3	0	0	3	UCCA102L
UCCA111L	Entrepreneurship Development	3	0	0	3	NIL
UCCA210L	Audit and Assurance	3	0	0	3	NIL
UCCA211L	Performance Management	3	0	0	3	NIL
UCCA214L	Financial Reporting	4	0	0	4	NIL
UCCA231L	Digital Marketing for Financial Services	3	0	0	3	UCCA103L
UCCA131L	Principles and Practices of Insurance	3	0	0	3	NIL
UCCA232L	Digital Banking and Financial Services	3	0	0	3	UCCA209L
UCCA233L	Mutual Funds	3	0	0	3	NIL

*(Annexure 28)*

The Academic Council considered and approved the same.

Item 72/31 To consider and approve the course contents for the courses of Bachelor of Commerce (Financial Technology).

The curriculum was approved in the 69<sup>th</sup> meeting of the Academic Council held on 16<sup>th</sup> March 2023 [Item No. 69/11].

Discipline Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
UCCA201L	Corporate Accounting	4	0	0	4	NIL
UCCA202L	Corporate Law	3	0	0	3	NIL
UCCA203L	Financial Management	3	0	0	3	NIL
UCCA204L	Cost Accounting	4	0	0	4	NIL
UCCA205L	Management Accounting	3	0	0	3	NIL
UCCA206L	Indirect Taxation	3	0	0	3	NIL
UCCA209L	Banking Theory and Practice	3	0	0	3	NIL

Specialization Electives						
UCCA108L	Human Resource Management	3	0	0	3	NIL
UCCA109L	Advanced Financial Accounting	3	0	0	3	UCCA102L
UCCA111L	Entrepreneurship Development	3	0	0	3	NIL
UCCA210L	Audit and Assurance	3	0	0	3	NIL
UCCA211L	Performance Management	3	0	0	3	NIL
UCCA214L	Financial Reporting	4	0	0	4	NIL
UCCA231L	Digital Marketing for Financial Services	3	0	0	3	UCCA103L
UCCA331L	Insurance Products and Regulations	4	0	0	4	NIL
UCCA234E	R and Python for Finance	2	0	2	3	NIL
UCCA235E	AI and ML for Finance	2	0	2	3	NIL
UCCA236L	Fintech Intelligence	3	0	0	3	NIL

*(Annexure 29)*

The Academic Council considered and approved the same.

Item 72/32 To consider and approve the course contents for the courses of Bachelor of Computer Applications.

The curriculum was approved in the 69<sup>th</sup> meeting of the Academic Council held on 16<sup>th</sup> March 2023 [Item No. 69/15].

Discipline Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
UBCA401L	Computer Vision	3	1	0	4	NIL
UBCA402L	Data Analytics	3	0	0	3	NIL
UBCA402P	Data Analytics Lab	0	0	2	1	NIL
UBCA403L	Soft Computing	3	1	0	4	NIL

UBCA404L	Machine Learning	3	0	0	3	NIL
UBCA404P	Machine Learning Lab	0	0	2	1	NIL
UBCA405L	Optimization Techniques	3	1	0	4	NIL
UBCA398J	Project				4	NIL
<b>Discipline Electives</b>						
UCCA115L	Principles of Accounting	3	0	0	3	NIL
UBCA107L	M-Commerce	3	0	0	3	NIL
UBCA108L	Enterprise Resource Planning	3	0	0	3	NIL
UBCA205L	Computer Graphics	3	0	0	3	NIL
UBCA205P	Computer Graphics Lab	0	0	2	1	NIL
UBCA206L	Data Mining	3	0	0	3	NIL
UBCA207L	Software Project Management	3	0	0	3	NIL
UBCA208L	Object Oriented Analysis and Design	3	0	0	3	NIL
UBCA209L	Data Science	3	0	0	3	NIL
UBCA303L	Mobile Application Development	3	0	0	3	NIL
UBCA303P	Mobile Application Development Lab	0	0	2	1	NIL
UBCA304L	Cloud Computing	3	0	0	3	NIL
UBCA304P	Cloud Computing Lab	0	0	2	1	NIL
UBCA305L	Internet of Things	3	0	0	3	NIL
UBCA305P	Internet of Things Lab	0	0	2	1	NIL
UBCA306L	Cyber Forensics	3	0	0	3	NIL
UBCA307L	Big Data Analytics	3	0	0	3	NIL
UBCA308L	System and Network Administration	3	0	0	3	NIL
UBCA309L	User Interface Design	3	0	0	3	NIL
UBCA406L	Blockchain Technology	3	1	0	4	NIL
UBCA407L	Programming in R	3	0	0	3	NIL
UBCA407P	Programming in R Lab	0	0	2	1	NIL
UBCA408L	Image Processing	3	0	0	3	NIL
UBCA408P	Image Processing Lab	0	0	2	1	NIL
UBCA409L	Advanced Java Programming	3	0	0	3	NIL
UBCA409P	Advanced Java Programming Lab	0	0	2	1	NIL
UBCA410L	Natural Language Processing	3	1	0	4	NIL
UBCA411L	Artificial Intelligence	3	0	0	3	NIL
<b>Cognitive Systems</b>						
UCSC215L	Infrastructure Management	3	0	0	3	NIL
UCSC215P	Infrastructure Management Lab	0	0	2	1	NIL
UBCA304L	Cloud Computing	3	0	0	3	NIL
UBCA304P	Cloud Computing Lab	0	0	2	1	NIL
UCSC322L	IT Infrastructure	3	1	0	4	NIL
UCSC323L	Process Management	3	1	0	4	NIL
UCSC324L	Customer Relationship Management	3	0	0	3	NIL
UCSC324P	Customer Relationship Management Lab	0	0	2	1	NIL
UCSC325L	Digital Technologies	3	0	0	3	NIL
UCSC325P	Digital Technologies Lab	0	0	2	1	NIL
<b>Value Added Course</b>						
UCSC225L	Cyber Security	3	0	0	3	NIL

(Annexure 30)

The Academic Council considered and approved the same.

Item  
72/33

To consider and approve the course contents for the courses of Bachelor of Science in Computer Science.

The curriculum was approved in the 69<sup>th</sup> meeting of the Academic Council held on 16<sup>th</sup> March 2023 [Item No. 69/14].



Discipline Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
UCSC401L	Design and Analysis of Algorithms	3	0	0	3	NIL
UCSC401P	Design and Analysis of Algorithms Lab	0	0	2	1	NIL
UCSC402L	Theory of Computation	3	1	0	4	NIL
UCSC403L	Natural Language Processing	3	1	0	4	NIL
UCSC404L	High Performance Computing	3	1	0	4	NIL
UCSC405L	Optimization Techniques	3	1	0	4	NIL
UCSC398J	Project				4	NIL
Discipline Electives						
UCCA116L	Organizational Behaviour	3	0	0	3	NIL
UCSC207L	Visual Programming	3	0	0	3	NIL
UCSC207P	Visual Programming Lab	0	0	2	1	NIL
UCSC208L	Linux programming	3	0	0	3	NIL
UCSC208P	Linux programming Lab	0	0	2	1	NIL
UCSC209L	Data Mining	3	0	0	3	NIL
UCSC210L	Software Project Management	3	0	0	3	NIL
UCSC211L	Object Oriented Analysis and Design	3	0	0	3	NIL
UCSC302L	Mobile Application Design and Development	3	0	0	3	NIL
UCSC302P	Mobile Application Design and Development Lab	0	0	2	1	NIL
UCSC303L	Cloud Application Development	3	0	0	3	NIL
UCSC303P	Cloud Application Development Lab	0	0	2	1	NIL
UCSC304L	Internet of Things	3	0	0	3	NIL
UCSC304P	Internet of Things Lab	0	0	2	1	NIL
UCSC305L	Game Programming	3	0	0	3	NIL
UCSC305P	Game Programming Lab	0	0	2	1	NIL
UCSC306L	Soft Computing	3	0	0	3	NIL
UCSC307L	Cyber Forensics	3	0	0	3	NIL
UCSC308L	Wireless Networks	3	0	0	3	NIL
UCSC309L	Edge Computing	3	0	0	3	NIL
UCSC310L	Advanced Java Programming	3	0	0	3	NIL
UCSC310P	Advanced Java Programming Lab	0	0	2	1	NIL
UCSC406L	Computer Graphics and Multimedia	3	0	0	3	NIL
UCSC406P	Computer Graphics and Multimedia Lab	0	0	2	1	NIL
UCSC407L	System Programming	3	0	0	3	NIL
UCSC407P	System Programming Lab	0	0	2	1	NIL
UCSC408L	Robotics	3	1	0	4	NIL
UCSC409L	Cyber Physical Systems	3	1	0	4	NIL
UCSC410L	Augmented Reality and Virtual Reality	3	1	0	4	NIL
UCSC411L	Blockchain Technologies	3	1	0	4	NIL
UCSC412L	Malware Analysis	3	1	0	4	NIL
Artificial Intelligence and Machine Learning						
UCSC311L	Artificial Intelligence	3	1	0	4	NIL
UCSC312L	Machine Learning	3	0	0	3	NIL
UCSC312P	Machine Learning Lab	0	0	2	1	NIL
UCSC313L	Image Processing	3	0	0	3	NIL
UCSC313P	Image Processing Lab	0	0	2	1	NIL
UCSC314L	Deep Learning	3	0	0	3	NIL
UCSC314P	Deep Learning Lab	0	0	2	1	NIL
UCSC315L	Human Computer Interaction	3	1	0	4	NIL
UCSC316L	Computer Vision	3	1	0	4	NIL
Data Science						
UCSC312L	Machine Learning	3	0	0	3	NIL
UCSC312P	Machine Learning Lab	0	0	2	1	NIL
UCSC317L	Big Data Technologies	3	0	0	3	NIL
UCSC317P	Big Data Technologies Lab	0	0	2	1	NIL
UCSC318L	Exploratory Data Analytics	3	0	0	3	NIL
UCSC318P	Exploratory Data Analytics Lab	0	0	2	1	NIL

M. A. 

UCSC319L	Data Visualization	3	1	0	4	NIL
UCSC320L	NoSQL Databases	3	0	0	3	NIL
UCSC320P	NoSQL Databases Lab	0	0	2	1	NIL
UCSC321L	Social Network Analytics	3	1	0	4	NIL
<b>Cognitive Systems</b>						
UCSC215L	Infrastructure Management	3	0	0	3	NIL
UCSC215P	Infrastructure Management Lab	0	0	2	1	NIL
UCSC303L	Cloud Application Development	3	0	0	3	NIL
UCSC303P	Cloud Application Development Lab	0	0	2	1	NIL
UCSC322L	IT Infrastructure	3	1	0	4	NIL
UCSC323L	Process Management	3	1	0	4	NIL
UCSC324L	Customer Relationship Management	3	0	0	3	NIL
UCSC324P	Customer Relationship Management Lab	0	0	2	1	NIL
UCSC325L	Digital Technologies	3	0	0	3	NIL
UCSC325P	Digital Technologies Lab	0	0	2	1	NIL
<b>Value Added Course</b>						
UCSC225L	Cyber Security	3	0	0	3	NIL

(Annexure 31)

The Academic Council considered and approved the same.

Item  
72/34

To consider and approve the course contents for the courses of Five Year Integrated Master of Technology in Software Engineering.

The curriculum was approved in the 69<sup>th</sup> meeting of the Academic Council held on 16<sup>th</sup> March 2023 [Item No. 69/20].

Foundation Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
ICSE102L	Structured and Object Oriented Programming	2	0	0	2	NIL
ICSE102P	Structured and Object Oriented Programming Lab	0	0	4	2	NIL
Non-Graded Credit Requirement						
ISWE101N	Introduction to Engineering				1	NIL

(Annexure 32)

The Academic Council considered and approved the same.

Item  
72/35

To consider and approve the course contents for the courses of Bachelor of Technology in Computer Science and Engineering; Bachelor of Technology in Computer Science and Engineering (Bioinformatics); Bachelor of Technology in Computer Science and Engineering (Information Security); Bachelor of Technology in Computer Science and Engineering (Internet of Things); Bachelor of Technology in Computer Science and Engineering (Data Science); Bachelor of Technology in Computer Science and Engineering (Cyber Physical Systems); Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence and Machine Learning); Bachelor of Technology in Computer Science and Engineering (Blockchain Technology); Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence and Robotics) and Bachelor of Technology in Information Technology.

Open Elective Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
BCSE353E	Information Security Analysis and Audit	1	0	2	2	NIL
BCSE354E	Information Security Management	1	0	2	2	NIL

(Annexure 33)

The Academic Council considered and approved the same.

Item 72/36	<p>To consider and approve the removal of Pre-requisite for the course of Bachelor of Technology in Information Technology from the academic year 2022-23 batch onwards.</p> <table border="1" data-bbox="276 264 1437 371"> <thead> <tr> <th colspan="7">Discipline-linked Engineering Science Course</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>BITE203L</td> <td>Principles of Communication Systems</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> </tbody> </table> <p style="text-align: right;">(Annexure 34)</p> <p>The Academic Council considered and approved the same.</p>	Discipline-linked Engineering Science Course							Course Code	Course Title	L	T	P	C	Prerequisite	BITE203L	Principles of Communication Systems	3	0	0	3	NIL														
Discipline-linked Engineering Science Course																																				
Course Code	Course Title	L	T	P	C	Prerequisite																														
BITE203L	Principles of Communication Systems	3	0	0	3	NIL																														
Item 72/37	<p>To consider and approve the introduction of new course with its course contents for all Bachelor of Technology programmes.</p> <table border="1" data-bbox="276 663 1437 770"> <thead> <tr> <th colspan="7">Humanities, Social Sciences and Management / Open Elective</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>BMGT108L</td> <td>Entrepreneurship</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> </tbody> </table> <p style="text-align: right;">(Annexure 35)</p> <p>The Academic Council considered and approved the same.</p>	Humanities, Social Sciences and Management / Open Elective							Course Code	Course Title	L	T	P	C	Prerequisite	BMGT108L	Entrepreneurship	3	0	0	3	NIL														
Humanities, Social Sciences and Management / Open Elective																																				
Course Code	Course Title	L	T	P	C	Prerequisite																														
BMGT108L	Entrepreneurship	3	0	0	3	NIL																														
Item 72/38	<p>To consider and approve the removal of Pre-requisite for the course of Bachelor of Technology in Mechanical Engineering; Bachelor of Technology in Mechanical Engineering (Automotive Engineering); Bachelor of Technology in Mechanical Engineering (Electric Vehicles) and Bachelor of Technology in Mechatronics and Automation.</p> <table border="1" data-bbox="276 1115 1437 1223"> <thead> <tr> <th colspan="7">Discipline / Specialization Elective</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>BMEE328E</td> <td>Hybrid and Electric Vehicles Technology</td> <td>2</td> <td>0</td> <td>2</td> <td>3</td> <td>NIL</td> </tr> </tbody> </table> <p style="text-align: right;">(Annexure 36)</p> <p>The Academic Council considered and approved the same.</p>	Discipline / Specialization Elective							Course Code	Course Title	L	T	P	C	Prerequisite	BMEE328E	Hybrid and Electric Vehicles Technology	2	0	2	3	NIL														
Discipline / Specialization Elective																																				
Course Code	Course Title	L	T	P	C	Prerequisite																														
BMEE328E	Hybrid and Electric Vehicles Technology	2	0	2	3	NIL																														
Item 72/39	<p>To consider and approve the changes in the course outcome statements for the courses of Bachelor of Technology in Chemical Engineering.</p> <p>The curriculum was approved in the 62nd meeting of the Academic Council held on 15th July 2021 [Item No. 62/15].</p> <p style="text-align: right;">(Annexure 37)</p> <p>The Academic Council considered and approved the same.</p>																																			
Item 72/40	<p>To consider and approve the new research programme, credit structure, curriculum and course contents of Doctor of Philosophy in Agricultural Biotechnology from the academic year 2023-24 onwards.</p> <table border="1" data-bbox="276 1798 1437 1957"> <thead> <tr> <th colspan="7">Major 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>ABTAG701</td> <td>Advances in Plant Molecular Biology</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>ABTAG702</td> <td>Advances in Plant Genetic Engineering</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>ABTAG703</td> <td>Advances in Microbial Biotechnology</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> </tbody> </table>	Major Courses							Course Code	Course Title	L	T	P	C	Prerequisite	ABTAG701	Advances in Plant Molecular Biology	3	0	0	3	NIL	ABTAG702	Advances in Plant Genetic Engineering	3	0	0	3	NIL	ABTAG703	Advances in Microbial Biotechnology	3	0	0	3	NIL
Major Courses																																				
Course Code	Course Title	L	T	P	C	Prerequisite																														
ABTAG701	Advances in Plant Molecular Biology	3	0	0	3	NIL																														
ABTAG702	Advances in Plant Genetic Engineering	3	0	0	3	NIL																														
ABTAG703	Advances in Microbial Biotechnology	3	0	0	3	NIL																														



	ABTAG751	Advances in Crop Biotechnology	3	0	0	3	NIL
<b>Minor Courses</b>							
	ABTAG752	Advances in Functional Genomics and Proteomics	2	0	0	2	NIL
	ABTAG801	Commercial Plant Tissue Culture	2	0	0	2	NIL
	ABTAG802	Plant Omics and Molecular Breeding	3	0	0	3	NIL
	ABTAG803	Biochemistry of Biotic and Abiotic Stresses	3	0	0	3	NIL
<i>(Annexure 38)</i>							
<b>The Academic Council considered and approved the same.</b>							
Item 72/41	<b>To consider and approve the new research programme, credit structure, curriculum and course contents of Doctor of Philosophy in Agronomy from the academic year 2023-24 onwards.</b>						
<b>Major Courses</b>							
	Course Code	Course Title	L	T	P	C	Prerequisite
	AGRON601	Current Trends in Agronomy	3	0	0	3	NIL
	AGRON602	Recent Trends in Crop Growth and Productivity	2	0	2	3	NIL
	AGRON603	Irrigation Management	2	0	2	3	NIL
	AGRON604	Recent Trends in Weed Management	2	0	0	2	NIL
	AGRON605	Integrated Farming Systems for sustainable agriculture	2	0	0	2	NIL
<b>Minor Courses</b>							
	AGRON606	Soil conservation and watershed management	2	0	2	3	NIL
	AGRON607	Stress Crop Production	2	0	2	3	NIL
<i>(Annexure 39)</i>							
<b>The Academic Council considered and approved the same.</b>							
Item 72/42	<b>To consider and approve the new research programme, credit structure, curriculum and course contents of Doctor of Philosophy in Agricultural Extension Education from the academic year 2023-24 onwards.</b>						
<b>Major Courses</b>							
	Course Code	Course Title	L	T	P	C	Prerequisite
	EXTEN601	Policy Engagement and Extension	2	0	2	3	NIL
	EXTEN602	Methodologies for Social and Behavioural Sciences	2	0	2	3	NIL
	EXTEN603	Technology Commercialization and Incubation	2	0	2	3	NIL
	EXTEN604	Educational Technology and Instructional Design	2	0	2	3	NIL
<b>Minor Courses</b>							
	EXTEN605	Risk Management and Climate Change Adaptation	2	0	2	3	NIL
	EXTEN606	Livelihood Development	1	0	2	2	NIL
	EXTEN607	Facilitation for People Centric Development	2	0	2	3	NIL
<i>(Annexure 40)</i>							
<b>The Academic Council considered and approved the same.</b>							
Item 72/43	<b>To consider and approve the new research programme, credit structure, curriculum and course contents of Doctor of Philosophy in Agricultural Microbiology from the academic year 2023-24 onwards.</b>						

*M. A.*

Major Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
MICRO601	Improvements in Fermentation Technology	2	0	2	3	NIL
MICRO602	Microbial Physiology and Regulation	2	0	0	2	NIL
MICRO603	Recent Developments in Soil Microbiology	2	0	0	2	NIL
MICRO604	Recent Approaches in Environmental Microbiology	2	0	0	2	NIL
MICRO605	Plant Microbe Interactions	2	0	2	3	NIL
Minor Courses						
BIOCH602	Advanced Molecular Biology	3	0	0	3	NIL
BIOCH605	Concepts and Application of Omics in Biological Science	3	0	0	3	NIL

**(Annexure 41)**

The Academic Council considered and approved the same.

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Major Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
FPTFS601	Novel Technologies for Food Processing and Shelf-Life Extension	3	0	0	3	NIL
FPTFS602	Food Packaging	3	0	0	3	NIL
FPTFS603	Food Manufacturing Technology	3	0	0	3	NIL
FPTFS604	Plant Food Products	3	0	0	3	NIL
FPTFS605	Food Process Modeling and Scale up	3	0	0	3	NIL
FPTFS606	Animal Food Products	3	0	0	3	NIL
Minor Courses						
FPEFS602	Concentration and Drying Engineering	3	0	0	3	NIL
FPEFS606	Food Handling and Storage Engineering	3	0	0	3	NIL
FSQFS603	Quality Assurance in Food Supply Chain	3	0	0	3	NIL
FSQFS604	Formulation of Standards of Food Products, Packaging and Labelling	2	0	0	2	NIL

**(Annexure 42)**

The Academic Council considered and approved the same.

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Major Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
FSCHS601	Innovative Approaches in Fruit Breeding	3	0	0	3	NIL
FSCHS602	Modern Trends in Fruit Production	3	0	0	3	NIL
FSCHS603	Recent Developments in Growth Regulation	3	0	0	3	NIL
FSCHS604	Advanced Laboratory Techniques	1	0	2	2	NIL
FSCHS605	Arid and Dry Land Fruit Production	2	0	0	2	NIL
FSCHS606	Abiotic Stress Management in Fruit Crops	2	0	2	3	NIL
FSCHS607	Biodiversity and Conservation of Fruit Crops	2	0	2	3	NIL
FSCHS608	Smart Fruit Production	2	0	0	2	NIL

**(Annexure 43)**

The Academic Council considered and approved the same.



Item 72/46	<p><b>To consider and approve the new research programme, credit structure, curriculum and course contents of Doctor of Philosophy in Genetics and Plant Breeding from the academic year 2023-24 onwards.</b></p> <table border="1" data-bbox="279 257 1428 716"> <thead> <tr> <th colspan="7">Major 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>GPBAG601</td> <td>Advances In Plant Breeding Systems</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>GPBAG602</td> <td>Advances in Biometrical Genetics</td> <td>2</td> <td>0</td> <td>2</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>GPBAG603</td> <td>Molecular Cytogenetics for Crop Improvement</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>GPBAG604</td> <td>Plant Genetic Resources, Conservation and Utilization</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>GPBAG605</td> <td>Genomics in Plant Breeding</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>GPBAG606</td> <td>Population Genetics</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>GPBAG607</td> <td>Crop Evolution</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>GPBAG608</td> <td>Breeding Designer Crops</td> <td>1</td> <td>0</td> <td>2</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>GPBAG609</td> <td>IPR And Regulatory Mechanism (E-Course)</td> <td>1</td> <td>0</td> <td>0</td> <td>1</td> <td>NIL</td> </tr> </tbody> </table> <table border="1" data-bbox="279 638 1428 716"> <thead> <tr> <th colspan="7">Minor Course</th> </tr> </thead> <tbody> <tr> <td>MBBAG602</td> <td>Plant Genome Engineering</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> </tbody> </table> <p style="text-align: right;"><i>(Annexure 44)</i></p> <p><b>The Academic Council considered and approved the same.</b></p>	Major Courses							Course Code	Course Title	L	T	P	C	Prerequisite	GPBAG601	Advances In Plant Breeding Systems	3	0	0	3	NIL	GPBAG602	Advances in Biometrical Genetics	2	0	2	3	NIL	GPBAG603	Molecular Cytogenetics for Crop Improvement	2	0	0	2	NIL	GPBAG604	Plant Genetic Resources, Conservation and Utilization	2	0	0	2	NIL	GPBAG605	Genomics in Plant Breeding	3	0	0	3	NIL	GPBAG606	Population Genetics	2	0	0	2	NIL	GPBAG607	Crop Evolution	3	0	0	3	NIL	GPBAG608	Breeding Designer Crops	1	0	2	2	NIL	GPBAG609	IPR And Regulatory Mechanism (E-Course)	1	0	0	1	NIL	Minor Course							MBBAG602	Plant Genome Engineering	3	0	0	3	NIL
Major Courses																																																																																												
Course Code	Course Title	L	T	P	C	Prerequisite																																																																																						
GPBAG601	Advances In Plant Breeding Systems	3	0	0	3	NIL																																																																																						
GPBAG602	Advances in Biometrical Genetics	2	0	2	3	NIL																																																																																						
GPBAG603	Molecular Cytogenetics for Crop Improvement	2	0	0	2	NIL																																																																																						
GPBAG604	Plant Genetic Resources, Conservation and Utilization	2	0	0	2	NIL																																																																																						
GPBAG605	Genomics in Plant Breeding	3	0	0	3	NIL																																																																																						
GPBAG606	Population Genetics	2	0	0	2	NIL																																																																																						
GPBAG607	Crop Evolution	3	0	0	3	NIL																																																																																						
GPBAG608	Breeding Designer Crops	1	0	2	2	NIL																																																																																						
GPBAG609	IPR And Regulatory Mechanism (E-Course)	1	0	0	1	NIL																																																																																						
Minor Course																																																																																												
MBBAG602	Plant Genome Engineering	3	0	0	3	NIL																																																																																						
Item 72/47	<p><b>To consider and approve the new research programme, credit structure, curriculum and course contents of Doctor of Philosophy in Plant Pathology from the academic year 2023-24 onwards.</b></p> <table border="1" data-bbox="279 940 1428 1243"> <thead> <tr> <th colspan="7">Major 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>PLPAT601</td> <td>Advances in Mycology</td> <td>2</td> <td>0</td> <td>2</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>PLPAT602</td> <td>Advances in Plant Virology</td> <td>2</td> <td>0</td> <td>2</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>PLPAT603</td> <td>Advances in Plant Pathogenic Prokaryotes</td> <td>2</td> <td>0</td> <td>2</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>PLPAT604</td> <td>Molecular Basis of Host-pathogen Interaction</td> <td>2</td> <td>0</td> <td>2</td> <td>3</td> <td>NIL</td> </tr> </tbody> </table> <table border="1" data-bbox="279 1142 1428 1243"> <thead> <tr> <th colspan="7">Minor Courses</th> </tr> </thead> <tbody> <tr> <td>PLPAT605</td> <td>Principles and Procedures of Certification</td> <td>1</td> <td>0</td> <td>0</td> <td>1</td> <td>NIL</td> </tr> <tr> <td>PLPAT606</td> <td>Plant Biosecurity and Biosafety</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> </tbody> </table> <p style="text-align: right;"><i>(Annexure 45)</i></p> <p><b>The Academic Council considered and approved the same.</b></p>	Major Courses							Course Code	Course Title	L	T	P	C	Prerequisite	PLPAT601	Advances in Mycology	2	0	2	3	NIL	PLPAT602	Advances in Plant Virology	2	0	2	3	NIL	PLPAT603	Advances in Plant Pathogenic Prokaryotes	2	0	2	3	NIL	PLPAT604	Molecular Basis of Host-pathogen Interaction	2	0	2	3	NIL	Minor Courses							PLPAT605	Principles and Procedures of Certification	1	0	0	1	NIL	PLPAT606	Plant Biosecurity and Biosafety	3	0	0	3	NIL																												
Major Courses																																																																																												
Course Code	Course Title	L	T	P	C	Prerequisite																																																																																						
PLPAT601	Advances in Mycology	2	0	2	3	NIL																																																																																						
PLPAT602	Advances in Plant Virology	2	0	2	3	NIL																																																																																						
PLPAT603	Advances in Plant Pathogenic Prokaryotes	2	0	2	3	NIL																																																																																						
PLPAT604	Molecular Basis of Host-pathogen Interaction	2	0	2	3	NIL																																																																																						
Minor Courses																																																																																												
PLPAT605	Principles and Procedures of Certification	1	0	0	1	NIL																																																																																						
PLPAT606	Plant Biosecurity and Biosafety	3	0	0	3	NIL																																																																																						
Item 72/48	<p><b>To consider and approve the new research programme, credit structure, curriculum and course contents of Doctor of Philosophy in Seed Science and Technology from the academic year 2023-24 onwards.</b></p> <table border="1" data-bbox="279 1489 1428 1870"> <thead> <tr> <th colspan="7">Major 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>SSTAG601</td> <td>Hybrid Seed Production Technology</td> <td>2</td> <td>0</td> <td>2</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>SSTAG602</td> <td>Organic Seed Production</td> <td>1</td> <td>0</td> <td>2</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>SSTAG603</td> <td>Physiology and Biochemistry of Seeds</td> <td>1</td> <td>0</td> <td>2</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>SSTAG604</td> <td>Genetic Purity and DUS Testing</td> <td>2</td> <td>0</td> <td>2</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>SSTAG605</td> <td>Seed Vigour and Crop Productivity</td> <td>1</td> <td>0</td> <td>2</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>SSTAG606</td> <td>Advances in Seed Science</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>SSTAG607</td> <td>Advances in Seed Quality Enhancement</td> <td>1</td> <td>0</td> <td>2</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>SSTAG608</td> <td>Germplasm Conservation Techniques</td> <td>1</td> <td>0</td> <td>2</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>SSTAG609</td> <td>Seed Ecology</td> <td>1</td> <td>0</td> <td>2</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>SSTAG610</td> <td>Seed Planning, Trade and Marketing</td> <td>1</td> <td>0</td> <td>2</td> <td>2</td> <td>NIL</td> </tr> </tbody> </table> <p style="text-align: right;"><i>(Annexure 46)</i></p> <p><b>The Academic Council considered and approved the same.</b></p>	Major Courses							Course Code	Course Title	L	T	P	C	Prerequisite	SSTAG601	Hybrid Seed Production Technology	2	0	2	3	NIL	SSTAG602	Organic Seed Production	1	0	2	2	NIL	SSTAG603	Physiology and Biochemistry of Seeds	1	0	2	2	NIL	SSTAG604	Genetic Purity and DUS Testing	2	0	2	3	NIL	SSTAG605	Seed Vigour and Crop Productivity	1	0	2	2	NIL	SSTAG606	Advances in Seed Science	2	0	0	2	NIL	SSTAG607	Advances in Seed Quality Enhancement	1	0	2	2	NIL	SSTAG608	Germplasm Conservation Techniques	1	0	2	2	NIL	SSTAG609	Seed Ecology	1	0	2	2	NIL	SSTAG610	Seed Planning, Trade and Marketing	1	0	2	2	NIL							
Major Courses																																																																																												
Course Code	Course Title	L	T	P	C	Prerequisite																																																																																						
SSTAG601	Hybrid Seed Production Technology	2	0	2	3	NIL																																																																																						
SSTAG602	Organic Seed Production	1	0	2	2	NIL																																																																																						
SSTAG603	Physiology and Biochemistry of Seeds	1	0	2	2	NIL																																																																																						
SSTAG604	Genetic Purity and DUS Testing	2	0	2	3	NIL																																																																																						
SSTAG605	Seed Vigour and Crop Productivity	1	0	2	2	NIL																																																																																						
SSTAG606	Advances in Seed Science	2	0	0	2	NIL																																																																																						
SSTAG607	Advances in Seed Quality Enhancement	1	0	2	2	NIL																																																																																						
SSTAG608	Germplasm Conservation Techniques	1	0	2	2	NIL																																																																																						
SSTAG609	Seed Ecology	1	0	2	2	NIL																																																																																						
SSTAG610	Seed Planning, Trade and Marketing	1	0	2	2	NIL																																																																																						



Item 72/49	<p>To consider and approve the new research programme, credit structure, curriculum and course contents of Doctor of Philosophy in Agri-Business Management from the academic year 2023-24 onwards.</p> <table border="1" data-bbox="277 322 1433 680"> <thead> <tr> <th colspan="7">Major 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>ABMAG601</td> <td>Econometrics for Agri-Business</td> <td>2</td> <td>0</td> <td>2</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>ABMAG602</td> <td>Research Methods-I</td> <td>2</td> <td>0</td> <td>2</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>ABMAG603</td> <td>Agri Input and Output Marketing</td> <td>2</td> <td>0</td> <td>2</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>ABMAG604</td> <td>Research Method-II</td> <td>2</td> <td>0</td> <td>2</td> <td>3</td> <td>NIL</td> </tr> <tr> <th colspan="7">Minor Courses</th> </tr> <tr> <td>ABMAG605</td> <td>Natural Resource Management</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>ABMAG606</td> <td>Knowledge Management</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>ABMAG607</td> <td>Value-Chain Management in Agribusiness</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> </tbody> </table> <p style="text-align: right;"><i>(Annexure 47)</i></p> <p>The Academic Council considered and approved the same.</p>	Major Courses							Course Code	Course Title	L	T	P	C	Prerequisite	ABMAG601	Econometrics for Agri-Business	2	0	2	3	NIL	ABMAG602	Research Methods-I	2	0	2	3	NIL	ABMAG603	Agri Input and Output Marketing	2	0	2	3	NIL	ABMAG604	Research Method-II	2	0	2	3	NIL	Minor Courses							ABMAG605	Natural Resource Management	2	0	0	2	NIL	ABMAG606	Knowledge Management	2	0	0	2	NIL	ABMAG607	Value-Chain Management in Agribusiness	2	0	0	2	NIL
Major Courses																																																																							
Course Code	Course Title	L	T	P	C	Prerequisite																																																																	
ABMAG601	Econometrics for Agri-Business	2	0	2	3	NIL																																																																	
ABMAG602	Research Methods-I	2	0	2	3	NIL																																																																	
ABMAG603	Agri Input and Output Marketing	2	0	2	3	NIL																																																																	
ABMAG604	Research Method-II	2	0	2	3	NIL																																																																	
Minor Courses																																																																							
ABMAG605	Natural Resource Management	2	0	0	2	NIL																																																																	
ABMAG606	Knowledge Management	2	0	0	2	NIL																																																																	
ABMAG607	Value-Chain Management in Agribusiness	2	0	0	2	NIL																																																																	
Item 72/50	<p>To consider and approve the course contents for the courses of Bachelor of Technology in Electrical and Computer Science Engineering.</p> <p>The curriculum was approved in the 70<sup>th</sup> meeting of the Academic Council held on 24<sup>th</sup> June 2023 [Item No. 70/10].</p> <table border="1" data-bbox="277 1057 1433 1281"> <thead> <tr> <th colspan="7">Discipline 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>Prerequisite</th> </tr> </thead> <tbody> <tr> <td>BECS301L</td> <td>Electrical Machines</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>BECS303L</td> <td>Power Electronics and Drives</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>BEEE102L, BEEE102P</td> </tr> <tr> <td>BECS303P</td> <td>Power Electronics and Drives Lab</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>BEEE102L, BEEE102P</td> </tr> </tbody> </table> <p style="text-align: right;"><i>(Annexure 48)</i></p> <p>The Academic Council considered and approved the same.</p>	Discipline Core Courses							Course Code	Course Title	L	T	P	C	Prerequisite	BECS301L	Electrical Machines	3	0	0	3	NIL	BECS303L	Power Electronics and Drives	3	0	0	3	BEEE102L, BEEE102P	BECS303P	Power Electronics and Drives Lab	0	0	2	1	BEEE102L, BEEE102P																																			
Discipline Core Courses																																																																							
Course Code	Course Title	L	T	P	C	Prerequisite																																																																	
BECS301L	Electrical Machines	3	0	0	3	NIL																																																																	
BECS303L	Power Electronics and Drives	3	0	0	3	BEEE102L, BEEE102P																																																																	
BECS303P	Power Electronics and Drives Lab	0	0	2	1	BEEE102L, BEEE102P																																																																	
Item 72/51	<p>To consider and approve the course contents for the courses of Master of Technology in Electric Mobility.</p> <p>The curriculum was approved in the 70<sup>th</sup> meeting of the Academic Council held on 24<sup>th</sup> June 2023 [Item No. 70/9].</p> <table border="1" data-bbox="277 1684 1433 1957"> <thead> <tr> <th colspan="7">Discipline 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>MELM601L</td> <td>EV and HEV Automotive FPGA</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>MELM601P</td> <td>EV and HEV Automotive FPGA Lab</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>NIL</td> </tr> <tr> <td>MELM602L</td> <td>Lightweight and Sustainable Materials: E-Mobility perspective</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>MELM603L</td> <td>Automotive Noise, Vibrations and Condition Monitoring</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>MELM604L</td> <td>Connected and Autonomous Vehicles</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> </tbody> </table>	Discipline Electives							Course Code	Course Title	L	T	P	C	Prerequisite	MELM601L	EV and HEV Automotive FPGA	2	0	0	2	NIL	MELM601P	EV and HEV Automotive FPGA Lab	0	0	2	1	NIL	MELM602L	Lightweight and Sustainable Materials: E-Mobility perspective	3	0	0	3	NIL	MELM603L	Automotive Noise, Vibrations and Condition Monitoring	3	0	0	3	NIL	MELM604L	Connected and Autonomous Vehicles	3	0	0	3	NIL																					
Discipline Electives																																																																							
Course Code	Course Title	L	T	P	C	Prerequisite																																																																	
MELM601L	EV and HEV Automotive FPGA	2	0	0	2	NIL																																																																	
MELM601P	EV and HEV Automotive FPGA Lab	0	0	2	1	NIL																																																																	
MELM602L	Lightweight and Sustainable Materials: E-Mobility perspective	3	0	0	3	NIL																																																																	
MELM603L	Automotive Noise, Vibrations and Condition Monitoring	3	0	0	3	NIL																																																																	
MELM604L	Connected and Autonomous Vehicles	3	0	0	3	NIL																																																																	



	MELM606L	Recycling, Reusability and Remanufacturing Technologies for Automotive Industry	3	0	0	3	NIL
	MELM607L	Aerial Electric Vehicular Technology	3	0	0	3	NIL
	MELM609L	Societal impacts of Electric Vehicle	3	0	0	3	NIL
<b>Project and Internship</b>							
	MELM696J	Study Oriented Project				2	NIL
	MELM697J	Design Project				2	NIL
	MELM698J	Internship I/ Dissertation I				10	NIL
	MELM699J	Internship II/ Dissertation II				12	NIL
<i>(Annexure 49)</i>							
<b>The Academic Council considered and approved the same.</b>							
Item 72/52	<b>To consider and approve the introduction of new courses with its course contents for Bachelor of Technology in Electrical and Electronics Engineering.</b>						
<b>Discipline Electives</b>							
	Course Code	Course Title	L	T	P	C	Prerequisite
	BEEE415L	Smart Grid	3	0	0	3	BEEE304L , BEEE307L
	BEEE416L	Electric Vehicles	3	0	0	3	BEEE307L
	BEEE417L	Advanced Microcontroller	3	0	0	3	BEEE309L, BEEE309P
<b>Open Electives</b>							
	BEEE418P	Electrical Safety	0	0	2	1	NIL
	BEEE419L	Nano Technology Fundamentals and its Applications	3	0	0	3	NIL
<i>(Annexure 50)</i>							
<b>The Academic Council considered and approved the same.</b>							
Item 72/53	<b>To consider and approve the introduction of new course with its course contents for Bachelor of Technology in Electronics and Instrumentation Engineering</b>						
<b>Discipline Elective</b>							
	Course Code	Course Title	L	T	P	C	Prerequisite
	BEEE417L	Advanced Microcontroller	3	0	0	3	BEEE309L, BEEE309P
<i>(Annexure 51)</i>							
<b>The Academic Council considered and approved the same.</b>							
Item 72/54	<b>To consider and approve the removal of prerequisite for the courses of Bachelor of Technology in Electronics and Instrumentation Engineering.</b>						
<b>Discipline Core Courses</b>							
	Course Code	Course Title	L	T	P	C	Prerequisite
	BEIE201L	Sensors and Signal Conditioning	3	0	0	3	NIL



	BEIE201P	Sensors and Signal Conditioning Lab	0	0	2	1	NIL								
	<i>(Annexure 52)</i>														
	The Academic Council considered and approved the same.														
Item 72/55	To consider and approve the change in component credit and course code for the course of Master of Business Administration.														
	The curriculum was approved in the 69 <sup>th</sup> meeting of the Academic Council held on 16 <sup>th</sup> March 2023 [Item No. 69/21].														
	<b>Discipline Core Course</b>														
	Course Code		Course Title				Existing				Proposed				Prerequisite
	Existing	Proposed	L	T	P	C	L	T	P	C					
	PMBA515E	PMBA515L	2	0	2	3	3	0	0	3	PMBA505L				
	<i>(Annexure 53)</i>														
	The Academic Council considered and approved the same.														
Item 72/56	To consider and approve the course contents for the courses of Bachelor of Technology in Electronics and Computer Engineering.														
	The curriculum was approved in the 62 <sup>nd</sup> meeting of the Academic Council held on 15 <sup>th</sup> July 2021 [Item No. 62/21].														
	<b>Discipline Electives</b>														
	Course Code		Course Title				L	T	P	C	Prerequisite				
	BECM391J		Technical Answers to Real Problems Project							3	NIL				
	BECM392J		Design Project							3	NIL				
	BECM393J		Laboratory Project							3	NIL				
	BECM394J		Product Development Project							3	NIL				
	BECM396J		Reading Course							3	NIL				
	BECM397J		Special Project							3	NIL				
	BECM398J		Simulation Project							3	NIL				
	<b>Project and Internship</b>														
	BECM399J		Summer Industrial Internship							1	NIL				
	BECM497J		Project-I							3	NIL				
	BECM498J		Project-II / Internship							5	NIL				
	BECM499J		One Semester Internship							14	NIL				
	<i>(Annexure 54)</i>														
	The Academic Council considered and approved the same.														
Item 72/57	To consider and approve the revised programme credit structure and curriculum of Bachelor of Business Administration (Honours) from the academic year 2024-25 onwards.														
	The curriculum was approved in the 58 <sup>th</sup> meeting of the Academic Council held on 26 <sup>th</sup> February 2020 [Item No. 58/06].														
	<i>(Annexure 55)</i>														
	The Academic Council considered and approved the same.														

Item 72/58	<p>To consider and approve the revised programme credit structure and curriculum of Bachelor of Commerce (Honours) from the academic year 2024-25 onwards.</p> <p>The curriculum was approved in the 63<sup>rd</sup> meeting of the Academic Council held on 23rd September 2022 [Item No. 63/21].</p> <p style="text-align: right;">(Annexure 56)</p> <p>The Academic Council considered and approved the same.</p>																					
Item 72/59	<p>To consider and approve the course contents for the courses of Bachelor of Commerce (Honours).</p> <p>The curriculum was approved in the 63<sup>rd</sup> meeting of the Academic Council held on 23rd September 2022 [Item No. 63/21].</p> <table border="1" data-bbox="271 548 1436 660" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7" style="text-align: center;">Project and Internship</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>UCCA498J</td> <td>Project</td> <td>0</td> <td>0</td> <td>0</td> <td>6</td> <td>NIL</td> </tr> </tbody> </table> <p style="text-align: right;">(Annexure 57)</p> <p>The Academic Council considered and approved the same.</p>	Project and Internship							Course Code	Course Title	L	T	P	C	Prerequisite	UCCA498J	Project	0	0	0	6	NIL
Project and Internship																						
Course Code	Course Title	L	T	P	C	Prerequisite																
UCCA498J	Project	0	0	0	6	NIL																
Item 72/60	<p>To consider and approve the introduction of new course with its course contents for Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence and Machine Learning); Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence and Robotics) and Bachelor of Technology in Computer Science and Engineering (Cyber Physical Systems).</p> <table border="1" data-bbox="271 974 1436 1086" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7" style="text-align: center;">Specialization Elective</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>BCSE432E</td> <td>Reinforcement Learning</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> </tbody> </table> <p style="text-align: right;">(Annexure 58)</p> <p>The Academic Council considered and approved the same.</p>	Specialization Elective							Course Code	Course Title	L	T	P	C	Prerequisite	BCSE432E	Reinforcement Learning	3	0	2	4	NIL
Specialization Elective																						
Course Code	Course Title	L	T	P	C	Prerequisite																
BCSE432E	Reinforcement Learning	3	0	2	4	NIL																
Item 72/61	<p>To consider and approve the inclusion of the following course into the curriculum of Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence and Machine Learning) from the curriculum of Bachelor of Technology in Electronics and Computer Engineering.</p> <table border="1" data-bbox="271 1344 1436 1456" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7" style="text-align: center;">Specialization Elective</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>BECM302E</td> <td>Augmented and Virtual Reality</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> </tbody> </table> <p>The Academic Council considered and approved the same.</p>	Specialization Elective							Course Code	Course Title	L	T	P	C	Prerequisite	BECM302E	Augmented and Virtual Reality	3	0	2	4	NIL
Specialization Elective																						
Course Code	Course Title	L	T	P	C	Prerequisite																
BECM302E	Augmented and Virtual Reality	3	0	2	4	NIL																
Item 72/62	<p>To consider and approve the change in category for the course of Five Year Integrated B.B.A., LL.B (Hons.) applicable for 2020 and 2021 batches.</p> <table border="1" data-bbox="271 1680 1436 1848" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>M/CL</th> <th>C</th> <th>Existing Category</th> <th>Proposed Category</th> </tr> </thead> <tbody> <tr> <td>LAW5302</td> <td>Business Ethics and Human Rights</td> <td>4</td> <td>1</td> <td>0</td> <td>4</td> <td>University Elective</td> <td>Programme Core</td> </tr> </tbody> </table> <p>The Academic Council considered and approved the same.</p>	Course Code	Course Title	L	T	M/CL	C	Existing Category	Proposed Category	LAW5302	Business Ethics and Human Rights	4	1	0	4	University Elective	Programme Core					
Course Code	Course Title	L	T	M/CL	C	Existing Category	Proposed Category															
LAW5302	Business Ethics and Human Rights	4	1	0	4	University Elective	Programme Core															

*Mr. Anurag*

Item 72/63	<p>To consider and approve the introduction of new courses with its course contents for the courses of Five Year Integrated B.B.A., LL.B (Hons.) and B.A., LL.B (Hons.).</p> <p>The curriculum was approved in the 68<sup>th</sup> meeting of the Academic Council held on 19<sup>th</sup> December 2022 (Item No. 68/26).</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="7">Discipline Electives</th> </tr> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>M/CL</th> <th>C</th> <th>Prerequisite</th> </tr> </thead> <tbody> <tr> <td>TLAW451L</td> <td>Artificial Intelligence &amp; Law</td> <td>4</td> <td>1</td> <td>0</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>TLAW452L</td> <td>Election Law</td> <td>4</td> <td>1</td> <td>0</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>TLAW453L</td> <td>Health and Law</td> <td>4</td> <td>1</td> <td>0</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>TLAW454L</td> <td>Law relating to Drugs</td> <td>4</td> <td>1</td> <td>0</td> <td>4</td> <td>NIL</td> </tr> </tbody> </table> <p style="text-align: right;">(Annexure 59)</p> <p>The Academic Council considered and approved the same.</p>	Discipline Electives							Course Code	Course Title	L	T	M/CL	C	Prerequisite	TLAW451L	Artificial Intelligence & Law	4	1	0	4	NIL	TLAW452L	Election Law	4	1	0	4	NIL	TLAW453L	Health and Law	4	1	0	4	NIL	TLAW454L	Law relating to Drugs	4	1	0	4	NIL
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Item 72/64	<p><b><u>Any other item:</u></b></p> <p><b><u>Reporting Item:</u></b></p> <p>QS has published World University Rankings: Sustainability 2024. VIT is now one of the top 500 Universities of the World in Sustainability. VIT's rank 449<sup>th</sup> globally and 8<sup>th</sup> in India.</p>																																										
Item 72/65	<p><b>Vote of thanks</b></p> <p>The meeting ended with vote of thanks by the Registrar.</p>																																										

*M. Anthony Xavier*  
18/12/23

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

**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. Jayarathi*

**Dr. Jayarathi. T**  
Secretary, Academic Council  
Registrar, Vellore Institute of Technology

**REGISTRAR**

**Vellore Institute of Technology (VIT)**

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

Vellore-632 014, Tamil Nadu, India

*V.S. Kanchana Bhaskaran*  
18/12/23

**Dr. V.S. Kanchana Bhaskaran**  
Chairperson, Academic Council  
Vice-Chancellor-in-Charge,  
Vellore Institute of Technology  
Vellore – 632014

**Dr. V.S. Kanchana Bhaaskaran**

Vice Chancellor

**Vellore Institute of Technology (VIT)**

**Vellore – 632 014, Tamil Nadu, India**