

**Minutes of the
64th Meeting of the Academic Council**

held on

16th December 2021





Minutes of the 64th Meeting of the Academic Council

(16th December 2021 | 11.00 AM | Vellore Campus)

Members Present:

1. Dr. Rambabu Kodali, Vice-Chancellor, Chairperson
2. Dr. S. Narayanan, Pro-Vice Chancellor
3. Dr. V.S. Kanchana Bhaaskaran, Pro-Vice Chancellor
4. Mr. Lakshminarayanan, Cognizant Digital Engineering Practice, Chennai
5. Mr. Lawrence Mohanraj, IBM India Pvt. Ltd, Chennai
6. Dr. M. Anthony Xavier, Dean Academics, Vellore Campus
7. Dr. A. Nayeemulla Khan, Dean Academics, Chennai Campus
8. Dr. R. Murugavel, Controller of Examination
9. Dr. N. Arunai Nambiraj, Dean, School of Advanced Sciences, Vellore Campus
10. Dr. R. Siva, Dean, School of Biosciences and Technology, Vellore Campus
11. Dr. A.S. Santhi, Dean, School of Civil Engineering, Vellore Campus
12. Dr. L. Muruganandam, Dean, School of Chemical Engineering, Vellore Campus
13. Dr. Ramesh Babu K, Dean, School of Computer Science and Engineering, Vellore Campus
14. Dr. Mathew M. Noel, Dean, School of Electrical Engineering, Vellore Campus
15. Dr. S. Sivanantham, Dean, School of Electronics Engineering, Vellore Campus
16. Dr. S. Sumathy, Dean, School of Information Technology, Vellore Campus
17. Dr. K. Devendranath Ramkumar, Dean, School of Mechanical Engineering, Vellore Campus
18. Dr. M. Manoharan, Dean, School of Social Sciences and Languages, Vellore Campus
19. Dr. Goutam Kumar Kundu, Dean, VIT Business School, Vellore Campus
20. Dr. S. Babu, Dean, VIT Agricultural Innovations and Advanced Learning, Vellore Campus
21. Dr. Saleem Ahmed, Dean, VIT School of Design, Vellore Campus
22. Dr. A. Madhumathi, Director, School of Architecture, Vellore Campus
23. Dr. C.D. Naiju, Director, Students' Welfare, Vellore Campus
24. Dr. P. Arulmozhivarman, Dean, Academics Research, Vellore Campus
25. Dr. Suvojit Ganguly, Assistant Dean, School of Hotel and Tourism Management, Vellore Campus
26. Dr. V. Samuel Rajkumar, Director, Career Development Centre, Vellore Campus
27. Dr. G. Kalaichelvan, Director, UG Admissions, Vellore Campus
28. Dr. P.C. Sabumon, Dean, Academic Research i/c, 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. A. Peer Fathima, Dean, School of Electrical Engineering, Chennai Campus
32. Dr. A. Siva Subramanian, Dean, School of Electronics Engineering, Chennai Campus
33. Dr. M. Gandhi, Dean, VIT School of Law, Chennai Campus
34. Dr. R. Sivakumar, Dean, School of Mechanical Engineering, Chennai Campus
35. Dr. S.K. Sudarsanam, Dean, VIT Business School, Chennai Campus
36. Dr. S. Elavenil, Dean, School of Civil Engineering, Chennai Campus
37. Dr. Saradha Rajkumar, Dean, School of Social Sciences and Languages, Chennai Campus
38. Dr. V. Viswanathan, Deputy Controller of Examinations, Chennai Campus
39. Dr. S. Prabu, Professor, School of Computer Science and Engineering, Vellore Campus
40. Dr. V. Thanikaiselvan, Associate Professor, School of Electronics Engineering, Vellore Campus
41. Dr. A. Raja Annamalai, Associate Professor, Centre for Innovative Manufacturing Research, Vellore Campus
42. Dr. A. Selvakumar, HOD, VIT Fashion Institute of Technology, Chennai Campus, Special Invitee
43. Dr. K. Sathiyarayanan, Registrar, Member Secretary

R. B. Kodali

Leave of Absence:

1. Dr. N. Lalitha, Educational Consultant, Chennai
2. Dr. K. Giridhar, IIT Madras
3. Dr. K.V.S. Hari, IISc, Bangalore
4. Shri. Jaji Vijayaraman, Valeo India Private Limited., Chennai
5. Mr. Arindam Sen, Bangalore, Alumni representative
6. Dr. V. Ramasubramanian, Director, PG Admissions, Vellore Campus
7. Dr. G. Madhumitha, Assistant Professor, School of Advanced Sciences, Vellore Campus
8. Dr. Jagadish Mudiganti, Dean Academics, VIT-AP University, Special Invitee
9. Mr. Abhishek Kumar Singh (18BCE2509) Student Council Member

Item 64/1	Welcome by Vice Chancellor Vice Chancellor welcomed all the members of the Academic Council.
Item 64/2	Remarks by Chancellor <ul style="list-style-type: none">• Due to increase in the admission strength this year, more number of faculty members are to be recruited with good caliber to ensure the quality of education.• School Deans have to take the responsibility to train the faculty members accordingly.• Need to discuss about the possibility of giving additional practical sessions to the students, once the physical classes are started.
Item 64/3	To consider and confirm the Minutes of the 63rd meeting of the Academic Council. <p style="text-align: right;">(Annexure 1)</p> Comments arising out of the minutes of the 63 rd meeting of the Academic Council are none. The Academic Council confirmed the above minutes.
Item 64/4	To consider and ratify the inclusion of additional nine (9) Research graduands, one (1) UG and one (1) PG graduands for the 2021 convocation. <p style="text-align: right;">(Annexure 2)</p> The Academic Council considered and approved the same.
Item 64/5	To consider and adopt the UGC (Online Courses or Programmes) Regulations, 2018 and (UGC Online Courses or Programmes) Amendment Regulations 2020. <p style="text-align: right;">(Annexure 3)</p> The Academic Council considered and approved the same.
Item 64/6	To consider and adopt the initiatives undertaken by UGC for implementation of NEP 2020 - (UGC D.O.F. No. 1-4/2021(QIP), 18th Nov. 2021) to improve accessibility, equity, quality, affordability & accountability and thereby bringing about transformative reforms in the higher education. <p style="text-align: right;">(Annexure 4)</p> The Academic Council considered and approved the same.
Item 64/7	To consider and approve the revised B. Tech. Programmes Migration Norms. <ul style="list-style-type: none">• Programme Migration is applicable only for the students admitted into various Bachelor of Technology Programmes (except Bachelor of Technology in Computer Science and Engineering and Business Systems).





	<ul style="list-style-type: none"> Overall CGPA of the students at the end of the Second Semester will be considered as the criteria for B. Tech Programmes migration. Students desirous to apply for program migration should not have any history of failure in any of the courses in both the First and Second Semester. i.e. there should be no 'F' or 'N' grade in the academic records. The number of seats available for programme migration is 2% of programme's approved intake. <p>The Academic Council considered and approved the same.</p>																																										
Item 64/8	<p>To consider and approve the new online academic programme and curriculum of Bachelor of Commerce offered by VIT Online Learning Institute (VITOL) and also the course contents for the following three (3) Discipline Core courses and one (1) Ability Enhancement course.</p> <table border="1"> <thead> <tr> <th colspan="6">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> </tr> </thead> <tbody> <tr> <td>OLBCO101</td> <td>Financial Accounting</td> <td>5</td> <td>1</td> <td>0</td> <td>6</td> </tr> <tr> <td>OLBCO102</td> <td>Business Management</td> <td>5</td> <td>1</td> <td>0</td> <td>6</td> </tr> <tr> <td>OLBCO103</td> <td>Principles of Economics</td> <td>5</td> <td>1</td> <td>0</td> <td>6</td> </tr> <tr> <th colspan="6">Ability Enhancement Course</th> </tr> <tr> <td>OLBCO104</td> <td>English Communication Skills</td> <td>3</td> <td>1</td> <td>0</td> <td>4</td> </tr> </tbody> </table> <p style="text-align: right;"><i>(Annexure 5)</i></p> <p>The Academic Council considered and approved the same.</p>	Discipline Core Courses						Course Code	Course Title	L	T	P	C	OLBCO101	Financial Accounting	5	1	0	6	OLBCO102	Business Management	5	1	0	6	OLBCO103	Principles of Economics	5	1	0	6	Ability Enhancement Course						OLBCO104	English Communication Skills	3	1	0	4
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Item 64/9	<p>To consider and approve the new online academic programme and curriculum of Bachelor of Computer Applications offered by VIT Online Learning Institute (VITOL) and also the course contents for the following three (3) Discipline Core courses and one (1) Ability Enhancement course.</p> <table border="1"> <thead> <tr> <th colspan="6">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> </tr> </thead> <tbody> <tr> <td>OLBCA101</td> <td>Programming in Python</td> <td>5</td> <td>1</td> <td>0</td> <td>6</td> </tr> <tr> <td>OLBCA102</td> <td>Discrete Mathematics</td> <td>5</td> <td>1</td> <td>0</td> <td>6</td> </tr> <tr> <td>OLBCA103</td> <td>Programming in C</td> <td>5</td> <td>1</td> <td>0</td> <td>6</td> </tr> <tr> <th colspan="6">Ability Enhancement Course</th> </tr> <tr> <td>OLBCA104</td> <td>English Communication Skills</td> <td>3</td> <td>1</td> <td>0</td> <td>4</td> </tr> </tbody> </table> <p style="text-align: right;"><i>(Annexure 6)</i></p> <p>The Academic Council considered and approved the same.</p>	Discipline Core Courses						Course Code	Course Title	L	T	P	C	OLBCA101	Programming in Python	5	1	0	6	OLBCA102	Discrete Mathematics	5	1	0	6	OLBCA103	Programming in C	5	1	0	6	Ability Enhancement Course						OLBCA104	English Communication Skills	3	1	0	4
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Item 64/10	<p>To consider and approve the new online academic programme and curriculum of Bachelor of Business Administration offered by VIT Online Learning Institute (VITOL) and also the course contents for the following three (3) Discipline Core courses and one (1) Ability Enhancement course.</p> <table border="1"> <thead> <tr> <th colspan="6">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> </tr> </thead> <tbody> <tr> <td>OLBBA101</td> <td>Principles of Management</td> <td>5</td> <td>1</td> <td>0</td> <td>6</td> </tr> <tr> <td>OLBBA102</td> <td>Principles of Economics</td> <td>5</td> <td>1</td> <td>0</td> <td>6</td> </tr> <tr> <td>OLBBA103</td> <td>Principles of Accounting</td> <td>5</td> <td>1</td> <td>0</td> <td>6</td> </tr> <tr> <th colspan="6">Ability Enhancement Course</th> </tr> <tr> <td>OLBBA104</td> <td>English Communication Skills</td> <td>3</td> <td>1</td> <td>0</td> <td>4</td> </tr> </tbody> </table> <p style="text-align: right;"><i>(Annexure 7)</i></p> <p>The Academic Council considered and approved the same.</p>	Discipline Core Courses						Course Code	Course Title	L	T	P	C	OLBBA101	Principles of Management	5	1	0	6	OLBBA102	Principles of Economics	5	1	0	6	OLBBA103	Principles of Accounting	5	1	0	6	Ability Enhancement Course						OLBBA104	English Communication Skills	3	1	0	4
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Item 64/11	<p>To consider and approve the new online academic programme and curriculum of Master of Computer Applications offered by VIT Online Learning Institute (VITOL) and also the course contents for the following five (5) Discipline Core courses.</p> <table border="1" data-bbox="304 226 1428 434"> <thead> <tr> <th colspan="6">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> </tr> </thead> <tbody> <tr> <td>OLMCA501</td> <td>Discrete Mathematical Structures</td> <td>3</td> <td>1</td> <td>0</td> <td>4</td> </tr> <tr> <td>OLMCA502</td> <td>Python Programming</td> <td>3</td> <td>1</td> <td>0</td> <td>4</td> </tr> <tr> <td>OLMCA503</td> <td>Data Structures and Algorithms</td> <td>3</td> <td>1</td> <td>0</td> <td>4</td> </tr> <tr> <td>OLMCA504</td> <td>Operating Systems</td> <td>3</td> <td>1</td> <td>0</td> <td>4</td> </tr> <tr> <td>OLMCA505</td> <td>Database Systems</td> <td>3</td> <td>1</td> <td>0</td> <td>4</td> </tr> </tbody> </table> <p style="text-align: right;">(Annexure 8)</p> <p>The Academic Council considered and approved the same.</p>	Discipline Core Courses						Course Code	Course Title	L	T	P	C	OLMCA501	Discrete Mathematical Structures	3	1	0	4	OLMCA502	Python Programming	3	1	0	4	OLMCA503	Data Structures and Algorithms	3	1	0	4	OLMCA504	Operating Systems	3	1	0	4	OLMCA505	Database Systems	3	1	0	4
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Item 64/12	<p>To consider and approve the new online academic programme and curriculum of Master of Business Administration offered by VIT Online Learning Institute (VITOL) and also the course contents for the following five (5) Discipline Core courses.</p> <table border="1" data-bbox="304 685 1428 896"> <thead> <tr> <th colspan="6">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> </tr> </thead> <tbody> <tr> <td>OLMBA501</td> <td>Principles of Management</td> <td>5</td> <td>1</td> <td>0</td> <td>6</td> </tr> <tr> <td>OLMBA502</td> <td>Managerial Economics</td> <td>5</td> <td>1</td> <td>0</td> <td>6</td> </tr> <tr> <td>OLMBA503</td> <td>Financial Accounting</td> <td>5</td> <td>1</td> <td>0</td> <td>6</td> </tr> <tr> <td>OLMBA504</td> <td>Data Analytics</td> <td>5</td> <td>1</td> <td>0</td> <td>6</td> </tr> <tr> <td>OLMBA505</td> <td>Business Communication</td> <td>3</td> <td>1</td> <td>0</td> <td>4</td> </tr> </tbody> </table> <p style="text-align: right;">(Annexure 9)</p> <p>The Academic Council considered and approved the same.</p>	Discipline Core Courses						Course Code	Course Title	L	T	P	C	OLMBA501	Principles of Management	5	1	0	6	OLMBA502	Managerial Economics	5	1	0	6	OLMBA503	Financial Accounting	5	1	0	6	OLMBA504	Data Analytics	5	1	0	6	OLMBA505	Business Communication	3	1	0	4
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Item 64/13	<p>To consider and approve the inclusion of eleven (11) NPTEL Courses Under University Elective Category. Total four hundred and forty two (442) NPTEL Courses have been already approved in the 53rd meeting of the Academic Council held on 13th December 2018 [Item No. 53.2.2], 57th meeting of the Academic Council held on 5th December 2019 [Item No. 57.2.3] and 58th meeting of the Academic Council held on 26th February 2020 [Item No.58.2.4].</p> <table border="1" data-bbox="304 1200 1428 1556"> <thead> <tr> <th>Course Title</th> <th>Duration</th> <th>Credits</th> </tr> </thead> <tbody> <tr> <td>Applied Optimization for Wireless, Machine Learning, Big Data</td> <td>12 weeks</td> <td>3 credits</td> </tr> <tr> <td>Deep Learning for Computer Vision</td> <td>12 weeks</td> <td>3 credits</td> </tr> <tr> <td>Deep Learning for Visual Computing</td> <td>12 weeks</td> <td>3 credits</td> </tr> <tr> <td>Principles of Compiler Design</td> <td>12 weeks</td> <td>3 credits</td> </tr> <tr> <td>International Business</td> <td>12 weeks</td> <td>3 credits</td> </tr> <tr> <td>Learning Analytics Tools</td> <td>12 weeks</td> <td>3 credits</td> </tr> <tr> <td>Advanced IoT Applications</td> <td>8 weeks</td> <td>2 credits</td> </tr> <tr> <td>Algorithms for Big Data</td> <td>8 weeks</td> <td>2 credits</td> </tr> <tr> <td>Decision Making Using Financial Accounting</td> <td>8 weeks</td> <td>2 credits</td> </tr> <tr> <td>Introduction on Intellectual Property to Engineers and Technologists</td> <td>8 weeks</td> <td>2 credits</td> </tr> <tr> <td>Introduction to Quantum Computing: Quantum Algorithms and Qiskit</td> <td>4 weeks</td> <td>1 credit</td> </tr> </tbody> </table> <p>The Academic Council considered and approved the same.</p>	Course Title	Duration	Credits	Applied Optimization for Wireless, Machine Learning, Big Data	12 weeks	3 credits	Deep Learning for Computer Vision	12 weeks	3 credits	Deep Learning for Visual Computing	12 weeks	3 credits	Principles of Compiler Design	12 weeks	3 credits	International Business	12 weeks	3 credits	Learning Analytics Tools	12 weeks	3 credits	Advanced IoT Applications	8 weeks	2 credits	Algorithms for Big Data	8 weeks	2 credits	Decision Making Using Financial Accounting	8 weeks	2 credits	Introduction on Intellectual Property to Engineers and Technologists	8 weeks	2 credits	Introduction to Quantum Computing: Quantum Algorithms and Qiskit	4 weeks	1 credit						
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Item 64/14	<p>To consider and approve the course contents for the following four (4) Foundation Core Courses, the basket of eight (8) Foreign Language Courses under the Foreign Language Course and two (2) Non-graded Core Requirement courses offered in Five Year Integrated Master of Technology in Construction Technology and Management. The curriculum was approved in the 62nd meeting of the Academic Council held on 15th July 2021 [Item No.62/13].</p>																																										

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Foundation Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
IMAT102L	Differential Equations and Transforms	3	1	0	4	IMAT101L, IMAT101P
IMAT201L	Complex Variables and Linear Algebra	3	1	0	4	IMAT102L
IMAT202L	Probability and Statistics	3	0	0	3	IMAT101L, IMAT101P
IMAT202P	Probability and Statistics Lab	0	0	2	1	IMAT101L, IMAT101P
Foreign Language Courses						
IARB101L	Arabic	2	0	0	2	NIL
ICHI101L	Chinese I	2	0	0	2	NIL
IFRE101L	French I	2	0	0	2	NIL
IGER101L	German I	2	0	0	2	NIL
IITL101L	Italian	2	0	0	2	NIL
IJAP101L	Japanese I	2	0	0	2	NIL
IGRE101L	Modern Greek	2	0	0	2	NIL
IESP101L	Spanish I	2	0	0	2	NIL
Non-graded Core Requirement						
IHUM101N	Ethics and Values	0	0	0	2	NIL
ISSC101N	Essence of Traditional Knowledge	0	0	0	2	NIL

(Annexure 10)

The Academic Council considered and approved the same.

Item 64/15

To consider and approve the course contents for the following four (4) Foundation Core Courses, the basket of eight (8) Foreign Language Courses under the Foreign Language Course and two (2) Non-graded Core Requirement courses offered in Bachelor of Technology in Chemical Engineering, Civil Engineering, Computer Science and Engineering and with Specializations, Electronics and Instrumentation, Electrical and Electronics, Electronics and Communication and with Specialization, Fashion Technology, Information Technology, Mechanical Engineering and with Specializations, Mechatronics and Automation. The curriculum was approved in the 62nd meeting of the Academic Council held on 15th July 2021 [from Item No.62/15 to Item No.62/25].

Foundation Core Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
BMAT102L	Differential Equations and Transforms	3	1	0	4	BMAT101L, BMAT101P
BMAT201L	Complex Variables and Linear Algebra	3	1	0	4	BMAT102L
BMAT202L	Probability and Statistics	3	0	0	3	BMAT101L, BMAT101P
BMAT202P	Probability and Statistics Lab	0	0	2	1	BMAT101L, BMAT101P
Foreign Language Courses						
BARB101L	Arabic	2	0	0	2	NIL
BCHI101L	Chinese I	2	0	0	2	NIL
BFRE101L	French I	2	0	0	2	NIL
BGER101L	German I	2	0	0	2	NIL
BITL101L	Italian	2	0	0	2	NIL
BJAP101L	Japanese I	2	0	0	2	NIL
BGRE101L	Modern Greek	2	0	0	2	NIL
BESP101L	Spanish I	2	0	0	2	NIL
Non-graded Core Requirement						
BHUM101N	Ethics and Values	0	0	0	2	NIL
BSSC101N	Essence of Traditional Knowledge	0	0	0	2	NIL

(Annexure 11)

The Academic Council considered and approved the same.

Signature

R.S. K. S. K.

Item 64/16	<p>To consider and approve the course contents for the following three (3) Foundation Core Courses, the basket of eight (8) Foreign Language Courses under the Foreign Language Course and two (2) Non-graded Core Requirement courses offered in Bachelor of Technology in Biotechnology. The curriculum was approved in the 62nd meeting of the Academic Council held on 15th July 2021 [Item No.62/14].</p> <table border="1" data-bbox="304 282 1430 864"> <thead> <tr> <th colspan="7">Foundation Core Courses</th> </tr> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> <th>Prerequisite</th> </tr> </thead> <tbody> <tr> <td>BMAT202L</td> <td>Probability and Statistics</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>BMAT101L, BMAT101P</td> </tr> <tr> <td>BMAT202P</td> <td>Probability and Statistics Lab</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>BMAT101L, BMAT101P</td> </tr> <tr> <td>BMAT203L</td> <td>Linear Algebra and Differential Equations</td> <td>3</td> <td>1</td> <td>0</td> <td>4</td> <td>BMAT101L, BMAT101P</td> </tr> <tr> <th colspan="7">Foreign Language Courses</th> </tr> <tr> <td>BARB101L</td> <td>Arabic</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>BCHI101L</td> <td>Chinese I</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>BFRE101L</td> <td>French I</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>BGER101L</td> <td>German I</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>BITL101L</td> <td>Italian</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>BJAP101L</td> <td>Japanese I</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>BGRE101L</td> <td>Modern Greek</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>BESP101L</td> <td>Spanish I</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <th colspan="7">Non-graded Core Requirement</th> </tr> <tr> <td>BHUM101N</td> <td>Ethics and Values</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <td>BSSC101N</td> <td>Essence of Traditional Knowledge</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> </tbody> </table> <p style="text-align: right;">(Annexure 12)</p> <p>The Academic Council considered and approved the same.</p>	Foundation Core Courses							Course Code	Course Title	L	T	P	C	Prerequisite	BMAT202L	Probability and Statistics	3	0	0	3	BMAT101L, BMAT101P	BMAT202P	Probability and Statistics Lab	0	0	2	1	BMAT101L, BMAT101P	BMAT203L	Linear Algebra and Differential Equations	3	1	0	4	BMAT101L, BMAT101P	Foreign Language Courses							BARB101L	Arabic	2	0	0	2	NIL	BCHI101L	Chinese I	2	0	0	2	NIL	BFRE101L	French I	2	0	0	2	NIL	BGER101L	German I	2	0	0	2	NIL	BITL101L	Italian	2	0	0	2	NIL	BJAP101L	Japanese I	2	0	0	2	NIL	BGRE101L	Modern Greek	2	0	0	2	NIL	BESP101L	Spanish I	2	0	0	2	NIL	Non-graded Core Requirement							BHUM101N	Ethics and Values	0	0	0	2	NIL	BSSC101N	Essence of Traditional Knowledge	0	0	0	2	NIL
Foundation Core Courses																																																																																																																								
Course Code	Course Title	L	T	P	C	Prerequisite																																																																																																																		
BMAT202L	Probability and Statistics	3	0	0	3	BMAT101L, BMAT101P																																																																																																																		
BMAT202P	Probability and Statistics Lab	0	0	2	1	BMAT101L, BMAT101P																																																																																																																		
BMAT203L	Linear Algebra and Differential Equations	3	1	0	4	BMAT101L, BMAT101P																																																																																																																		
Foreign Language Courses																																																																																																																								
BARB101L	Arabic	2	0	0	2	NIL																																																																																																																		
BCHI101L	Chinese I	2	0	0	2	NIL																																																																																																																		
BFRE101L	French I	2	0	0	2	NIL																																																																																																																		
BGER101L	German I	2	0	0	2	NIL																																																																																																																		
BITL101L	Italian	2	0	0	2	NIL																																																																																																																		
BJAP101L	Japanese I	2	0	0	2	NIL																																																																																																																		
BGRE101L	Modern Greek	2	0	0	2	NIL																																																																																																																		
BESP101L	Spanish I	2	0	0	2	NIL																																																																																																																		
Non-graded Core Requirement																																																																																																																								
BHUM101N	Ethics and Values	0	0	0	2	NIL																																																																																																																		
BSSC101N	Essence of Traditional Knowledge	0	0	0	2	NIL																																																																																																																		
Item 64/17	<p>To consider and approve the course contents for the following six (6) Foundation Core courses and one (1) Skill Enhancement course offered in Five Year Integrated Master of Science in Physics, Five Year Integrated Master of Science in Chemistry and Five Year Integrated Master of Science in Mathematics. The curriculum was approved in the 62nd meeting of the Academic Council held on 15th July 2021 [Item No. 62/9, 62/10 and 62/11].</p> <table border="1" data-bbox="304 1151 1430 1478"> <thead> <tr> <th colspan="7">Foundation Core Courses</th> </tr> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> <th>Prerequisite</th> </tr> </thead> <tbody> <tr> <td>TMAT104L</td> <td>Ordinary and Partial Differential Equations</td> <td>3</td> <td>1</td> <td>0</td> <td>4</td> <td>TMAT103L, TMAT103P</td> </tr> <tr> <td>TPHY103L</td> <td>Modern Physics</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>TPHY103P</td> <td>Modern Physics Lab</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>NIL</td> </tr> <tr> <td>TCHY103L</td> <td>Physical and Analytical Chemistry</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>TCHY103P</td> <td>Physical and Analytical Chemistry Lab</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>NIL</td> </tr> <tr> <td>THUM101L</td> <td>Ethics and Values</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>NIL</td> </tr> <tr> <th colspan="7">Skill Enhancement Course</th> </tr> <tr> <td>TCSE201E</td> <td>Programming in Java</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 13)</p> <p>The Academic Council considered and approved the same.</p>	Foundation Core Courses							Course Code	Course Title	L	T	P	C	Prerequisite	TMAT104L	Ordinary and Partial Differential Equations	3	1	0	4	TMAT103L, TMAT103P	TPHY103L	Modern Physics	3	0	0	3	NIL	TPHY103P	Modern Physics Lab	0	0	2	1	NIL	TCHY103L	Physical and Analytical Chemistry	3	0	0	3	NIL	TCHY103P	Physical and Analytical Chemistry Lab	0	0	2	1	NIL	THUM101L	Ethics and Values	2	0	0	2	NIL	Skill Enhancement Course							TCSE201E	Programming in Java	3	0	2	4	NIL																																																	
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Course Code	Course Title	L	T	P	C	Prerequisite																																																																																																																		
TMAT104L	Ordinary and Partial Differential Equations	3	1	0	4	TMAT103L, TMAT103P																																																																																																																		
TPHY103L	Modern Physics	3	0	0	3	NIL																																																																																																																		
TPHY103P	Modern Physics Lab	0	0	2	1	NIL																																																																																																																		
TCHY103L	Physical and Analytical Chemistry	3	0	0	3	NIL																																																																																																																		
TCHY103P	Physical and Analytical Chemistry Lab	0	0	2	1	NIL																																																																																																																		
THUM101L	Ethics and Values	2	0	0	2	NIL																																																																																																																		
Skill Enhancement Course																																																																																																																								
TCSE201E	Programming in Java	3	0	2	4	NIL																																																																																																																		
Item 64/18	<p>To consider and approve the course contents of the basket of eight (8) Foreign Language Courses under the Foreign Language Course and one (1) Non-graded Core Requirement course offered in Five Year Integrated Master of Science in Food Science and Technology, Five Year Integrated Master of Science in Physics, Five Year Integrated Master of Science in Chemistry, Five Year Integrated Master of Science in Mathematics, and Five Year Integrated Master of Science in Biotechnology. The curriculum was approved in the 62nd meeting of the Academic Council held on 15th July 2021 [Item No. 62/8 – 62/11, 62/26].</p>																																																																																																																							

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R B Kulkarni

Foreign Language Courses							Prerequisite
Course Code	Course Title	L	T	P	C		
TARB101L	Arabic	2	0	0	2		NIL
TCHI101L	Chinese I	2	0	0	2		NIL
TFRE101L	French I	2	0	0	2		NIL
TGER101L	German I	2	0	0	2		NIL
TITL101L	Italian	2	0	0	2		NIL
TJAP101L	Japanese	2	0	0	2		NIL
TGRE101L	Modern Greek	2	0	0	2		NIL
TESP101L	Spanish	2	0	0	2		NIL
Non-graded Core Requirement							
TSSC102N	Essence of Traditional Knowledge	0	0	0	2		NIL

(Annexure 14)

The Academic Council considered and approved the same.

Item 64/19

To consider and approve the removal of Prerequisite for the following one (1) Programme Core course offered in Bachelor of Technology in Computer Science and Engineering, Computer Science and Engineering with Specialization in Bioinformatics, Computer Science and Engineering with Specialization in Information Security, Computer Science and Engineering with Specialization in Internet of Things, Computer Science and Engineering with Specialization in Data Science, Electronics and Communication Engineering, Information Technology, Computer Science and Engineering with Specialization in Block Chain Technology, Computer Science and Engineering with Specialization in Artificial Intelligence and Machine Learning; Electronics and Communication Engineering with Specialization in Biomedical Engineering. The curriculum was approved in the 37th meeting of the Academic Council held on 16th June 2015 [Item. No 37.10], 13th June 2019 [Item. No 55.5.3], 24th September 2020 [Item No.59.13.1].

Programme Core		
Course Code	Course Title	Prerequisite to be removed
MAT3004	Applied Linear Algebra	MAT2002

The Academic Council considered and approved the same.

Item 64/20

To consider and approve the course contents for the following six (6) Programme Elective courses offered in Bachelor of Technology in Computer Science and Engineering with Specialization in Data Science. The curriculum was approved in the 55th meeting of the Academic Council held on 13th June 2019 [Item. No 55.5.3].

Programme Electives							
Course Code	Course Title	L	T	P	J	C	Prerequisite
BCD3005	Information Extraction and Retrieval	3	0	0	0	3	NIL
BCD3006	Intelligent Database System	3	0	0	4	4	NIL
BCD4001	Decision support systems and Intelligent systems	3	0	0	0	3	NIL
BCD4002	Knowledge Representation and Reasoning	3	0	0	4	4	NIL
BCD4003	Time series analysis and Forecasting	3	0	0	0	3	NIL
BCD4004	Nature Inspired computing for Data Science	3	0	0	4	4	NIL

(Annexure 15)

The Academic Council considered and approved the same.

R N / Udale

Item 64/21	<p>To consider and approve the introduction of the following two (2) Programme Elective Courses offered in Bachelor of Technology in Computer Science and Engineering and Business Systems. The curriculum was approved in the 55th meeting of the Academic Council held on 13th June 2019 [Item. No 55.5.4].</p> <table border="1" data-bbox="304 248 1428 371"> <thead> <tr> <th colspan="7">Programme Electives</th> </tr> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>J</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>CBS1011</td> <td>Programming in Python</td> <td>2</td> <td>0</td> <td>2</td> <td>0</td> <td>3</td> </tr> <tr> <td>CSE1007</td> <td>Java Programming</td> <td>3</td> <td>0</td> <td>2</td> <td>0</td> <td>4</td> </tr> </tbody> </table> <p style="text-align: right;">(Annexure 16)</p> <p>The Academic Council considered and approved the same.</p>	Programme Electives							Course Code	Course Title	L	T	P	J	C	CBS1011	Programming in Python	2	0	2	0	3	CSE1007	Java Programming	3	0	2	0	4																																																																																																																							
Programme Electives																																																																																																																																																				
Course Code	Course Title	L	T	P	J	C																																																																																																																																														
CBS1011	Programming in Python	2	0	2	0	3																																																																																																																																														
CSE1007	Java Programming	3	0	2	0	4																																																																																																																																														
Item 64/22	<p>To consider and approve the minor revision in the course content for the following one (1) Programme Core Course offered in Bachelor of Technology in Computer Science and Engineering and Business Systems. The curriculum was approved in the 55th meeting of the Academic Council held on 13th June 2019 [Item. No 55.5.4].</p> <table border="1" data-bbox="304 667 1428 763"> <thead> <tr> <th colspan="7">Programme Core Course</th> </tr> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>J</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>CBS1005</td> <td>Software Engineering Methodologies</td> <td>2</td> <td>0</td> <td>2</td> <td>0</td> <td>3</td> </tr> </tbody> </table> <p style="text-align: right;">(Annexure 17)</p> <p>The Academic Council considered and approved the same.</p>	Programme Core Course							Course Code	Course Title	L	T	P	J	C	CBS1005	Software Engineering Methodologies	2	0	2	0	3																																																																																																																														
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CBS1005	Software Engineering Methodologies	2	0	2	0	3																																																																																																																																														
Item 64/23	<p>To consider and approve the course contents for the following one (1) University Core course and seventeen (17) Programme Elective courses offered in Five Year Integrated Master of Technology in Computer Science and Engineering [In collaboration with Virtusa]. The curriculum was approved in the 55th meeting of the Academic Council held on 13th June 2019 [Item. No 55.5.5].</p> <table border="1" data-bbox="304 1081 1428 1731"> <thead> <tr> <th colspan="7">University Core Course</th> </tr> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>J</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>CSI1006</td> <td>Mini Project</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>4</td> </tr> <tr> <th colspan="7">Programme Electives</th> </tr> <tr> <td>CSI3030</td> <td>Internetworking with TCP/IP</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> </tr> <tr> <td>CSI3031</td> <td>Quantum Computing Techniques</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> </tr> <tr> <td>CSI3032</td> <td>Advances in Pervasive Computing</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> </tr> <tr> <td>CSI3033</td> <td>Web Mining and social Network Analysis</td> <td>3</td> <td>0</td> <td>0</td> <td>4</td> <td>4</td> </tr> <tr> <td>CSI4001</td> <td>Natural Language Processing and Computational Linguistics</td> <td>3</td> <td>0</td> <td>0</td> <td>4</td> <td>4</td> </tr> <tr> <td>CSI4002</td> <td>Logic and Combinatorics for Computer Science</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> </tr> <tr> <td>CSI4003</td> <td>Computer Oriented Numerical Methods</td> <td>3</td> <td>0</td> <td>2</td> <td>0</td> <td>4</td> </tr> <tr> <td>CSI4004</td> <td>Text Mining</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> </tr> <tr> <td>CSI4005</td> <td>Augmented Reality and Virtual Reality</td> <td>3</td> <td>0</td> <td>0</td> <td>4</td> <td>4</td> </tr> <tr> <td>CSI4006</td> <td>Game Theory</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> </tr> <tr> <td>CSI4007</td> <td>GPU Programming</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> </tr> <tr> <td>CSI4008</td> <td>Programming Paradigms</td> <td>3</td> <td>0</td> <td>2</td> <td>0</td> <td>4</td> </tr> <tr> <td>CSI4009</td> <td>Mathematical Modelling and Simulation</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> </tr> <tr> <td>CSI4010</td> <td>Cognitive Science and Decision Making</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> </tr> <tr> <td>MDI3003</td> <td>Advanced Predictive Analytics</td> <td>3</td> <td>0</td> <td>2</td> <td>0</td> <td>4</td> </tr> <tr> <td>MDI3007</td> <td>Fault Tolerant Computing System</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> </tr> <tr> <td>MDI4012</td> <td>Vision and Image Processing</td> <td>3</td> <td>0</td> <td>2</td> <td>0</td> <td>4</td> </tr> </tbody> </table> <p style="text-align: right;">(Annexure 18)</p> <p>The Academic Council considered and approved the same.</p>	University Core Course							Course Code	Course Title	L	T	P	J	C	CSI1006	Mini Project	0	0	0	0	4	Programme Electives							CSI3030	Internetworking with TCP/IP	3	0	0	0	3	CSI3031	Quantum Computing Techniques	3	0	0	0	3	CSI3032	Advances in Pervasive Computing	3	0	0	0	3	CSI3033	Web Mining and social Network Analysis	3	0	0	4	4	CSI4001	Natural Language Processing and Computational Linguistics	3	0	0	4	4	CSI4002	Logic and Combinatorics for Computer Science	3	0	0	0	3	CSI4003	Computer Oriented Numerical Methods	3	0	2	0	4	CSI4004	Text Mining	3	0	0	0	3	CSI4005	Augmented Reality and Virtual Reality	3	0	0	4	4	CSI4006	Game Theory	3	0	0	0	3	CSI4007	GPU Programming	3	0	0	0	3	CSI4008	Programming Paradigms	3	0	2	0	4	CSI4009	Mathematical Modelling and Simulation	3	0	0	0	3	CSI4010	Cognitive Science and Decision Making	3	0	0	0	3	MDI3003	Advanced Predictive Analytics	3	0	2	0	4	MDI3007	Fault Tolerant Computing System	3	0	0	0	3	MDI4012	Vision and Image Processing	3	0	2	0	4
University Core Course																																																																																																																																																				
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CSI1006	Mini Project	0	0	0	0	4																																																																																																																																														
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CSI3030	Internetworking with TCP/IP	3	0	0	0	3																																																																																																																																														
CSI3031	Quantum Computing Techniques	3	0	0	0	3																																																																																																																																														
CSI3032	Advances in Pervasive Computing	3	0	0	0	3																																																																																																																																														
CSI3033	Web Mining and social Network Analysis	3	0	0	4	4																																																																																																																																														
CSI4001	Natural Language Processing and Computational Linguistics	3	0	0	4	4																																																																																																																																														
CSI4002	Logic and Combinatorics for Computer Science	3	0	0	0	3																																																																																																																																														
CSI4003	Computer Oriented Numerical Methods	3	0	2	0	4																																																																																																																																														
CSI4004	Text Mining	3	0	0	0	3																																																																																																																																														
CSI4005	Augmented Reality and Virtual Reality	3	0	0	4	4																																																																																																																																														
CSI4006	Game Theory	3	0	0	0	3																																																																																																																																														
CSI4007	GPU Programming	3	0	0	0	3																																																																																																																																														
CSI4008	Programming Paradigms	3	0	2	0	4																																																																																																																																														
CSI4009	Mathematical Modelling and Simulation	3	0	0	0	3																																																																																																																																														
CSI4010	Cognitive Science and Decision Making	3	0	0	0	3																																																																																																																																														
MDI3003	Advanced Predictive Analytics	3	0	2	0	4																																																																																																																																														
MDI3007	Fault Tolerant Computing System	3	0	0	0	3																																																																																																																																														
MDI4012	Vision and Image Processing	3	0	2	0	4																																																																																																																																														

Signature

Signature

Item 64/24

To consider and approve the course contents for the following twenty seven (27) Programme Elective courses offered in Five Year Integrated Master of Technology in Computer Science and Engineering with Specialization in Data Science. The curriculum was approved in the 55th meeting of the Academic Council held on 13th June 2019 [Item. No 55.5.6].

Programme Electives							
Course Code	Course Title	L	T	P	J	C	Prerequisite
CSI3030	Internetworking with TCP/IP	3	0	0	0	3	NIL
CSI3031	Quantum Computing Techniques	3	0	0	0	3	NIL
CSI3032	Advances in Pervasive Computing	3	0	0	0	3	NIL
CSI3033	Web mining and Social Network Analysis	3	0	0	4	4	NIL
CSI4001	Natural Language Processing and Computational Linguistics	3	0	0	4	4	NIL
CSI4002	Logic and Combinatorics for Computer Science	3	0	0	0	3	NIL
CSI4003	Computer Oriented Numerical Methods	3	0	2	0	4	NIL
CSI4004	Text Mining	3	0	0	0	3	NIL
CSI4005	Augmented Reality and Virtual Reality	3	0	0	4	4	NIL
CSI4006	Game Theory	3	0	0	0	3	NIL
CSI4007	GPU Programming	3	0	0	0	3	NIL
CSI4008	Programming Paradigms	3	0	2	0	4	NIL
CSI4009	Mathematical Modelling and Simulation	3	0	0	0	3	NIL
CSI4010	Cognitive Science and Decision making	3	0	0	0	3	NIL
MDI3003	Advanced Predictive Analytics	3	0	2	0	4	NIL
MDI3004	Intelligent Database Systems	3	0	0	4	4	NIL
MDI3005	Advances in Data Engineering	3	0	0	4	4	NIL
MDI3006	Advanced Data Analytics	3	0	0	0	3	NIL
MDI4002	Medical Informatics	3	0	0	0	3	NIL
MDI4003	Statistical Inference and Modelling	3	0	2	0	4	NIL
MDI4004	Knowledge Engineering and Management	3	0	0	4	4	NIL
MDI4005	Image and Video Analytics	3	0	0	4	4	NIL
MDI4007	Advances in Database Administration and Security	3	0	0	0	3	NIL
MDI4008	Bayesian Statistical Methods	3	0	0	4	4	NIL
MDI4009	Neural Networks and Deep Learning	3	0	0	0	3	NIL
MDI4010	Nature Inspired Optimization Techniques	3	1	0	0	4	NIL
MDI4011	Statistics and Exploratory Analytics	3	0	0	0	3	NIL

(Annexure 19)

The Academic Council considered and approved the same.

Item 64/25

To consider and approve the course contents for the following three (3) Programme Core courses and seven (7) Programme Elective courses offered in Bachelor of Technology in Computer Science and Engineering with Specialization in Blockchain Technology. The curriculum was approved in the 59th meeting of the Academic Council held on 24th September 2020 [Item No.59.13.1].

Programme Core Courses							
Course Code	Course Title	L	T	P	J	C	
BKT1001	Blockchain and Distributed Ledger Technology	3	0	2	0	4	

	BKT2001	Cryptography and Information Security	3	0	2	0	4
	BKT3001	Design and Development of Blockchain Applications	3	0	2	0	4
	Programme Electives						
	BKT3002	Public Key Infrastructure and Trust Management	2	0	2	0	3
	BKT4001	Blockchain Ecosystem	3	0	0	0	3
	BKT4002	Bitcoin Mining	3	0	2	0	4
	BKT4003	Smart Contract Essentials	3	0	2	0	4
	BKT4004	Vulnerability Discovery and Exploit Development	2	0	2	0	3
	BKT4005	Blockchain Architecture Design and Use Cases	3	0	0	4	4
	BKT4006	Cryptocurrency Technologies	3	0	0	4	4
	<i>(Annexure 20)</i>						
	The Academic Council considered and approved the same.						
Item 64/26	To consider and approve the Re-structuring of credit structure and curriculum of Bachelor of Science in Agriculture (Honours). The curriculum was approved in the 49 th meeting of the Academic Council held on 15 th March 2018 [Item.No. 45.3.4].						
	<i>(Annexure 21)</i>						
	The Academic Council considered and approved the same.						
Item 64/27	To consider and approve the course contents for the following three (3) Discipline Linked Engineering Science courses offered in Bachelor of Technology in Electrical and Electronics Engineering. The curriculum was approved in the 62 nd meeting of the Academic Council held on 15 th July 2021 [Item. No.62/19].						
	Discipline Linked Engineering Science Courses						
	Course Code	Course Title	L	T	P	C	Prerequisite
	BEEE201L	Electronic Materials	3	0	0	3	NIL
	BEEE202L	Electromagnetic Theory	2	1	0	3	NIL
	BEEE203L	Circuit Theory	3	1	0	4	BEEE101L, BEEE101P
	<i>(Annexure 22)</i>						
	The Academic Council considered and approved the same.						
Item 64/28	To consider and approve the course contents for the following three (3) Discipline Linked Engineering Science Courses offered in Bachelor of Technology in Electronics and Communication Engineering. The curriculum was approved in the 62 nd meeting of the Academic Council held on 15 th July 2021 [Item. No.62/20].						
	Discipline Linked Engineering Science Courses						
	Course Code	Course Title	L	T	P	C	Prerequisite
	BECE201L	Electronic Materials and Devices	3	0	0	3	NIL
	BECE202L	Signals and Systems	2	1	0	3	BMAT102L
	BECE203L	Circuit Theory	3	1	0	4	BEEE101L, BEEE101P
	<i>(Annexure 23)</i>						
	The Academic Council considered and approved the same.						

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Item 64/29 To consider and approve the course contents for the following two (2) Discipline Linked Engineering Science courses offered in Bachelor of Technology in Electronics and Computer Engineering. The curriculum was approved in the 62nd meeting of the Academic Council held on 15th July 2021 [Item. No.62/21].

Discipline Linked Engineering Science Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
BECE201L	Electronic Materials and Devices	3	0	0	3	NIL
BECE203L	Circuit Theory	3	1	0	4	BEEE101L, BEEE101P

(Annexure 24)

The Academic Council considered and approved the same.

Item 64/30 To consider and approve the course contents for the following three (3) Discipline Linked Engineering Science courses offered in Bachelor of Technology in Information Technology. The curriculum was approved in the 62nd meeting of the Academic Council held on 15th July 2021 [Item. No.62/23].

Discipline Linked Engineering Science Courses						
Course Code	Course Title	L	T	P	C	Prerequisite
BITE202L	Digital Logic and Microprocessors	3	0	0	3	BECE101L, BECE101P
BITE202P	Digital Logic and Microprocessors Lab	0	0	2	1	BECE101L, BECE101P
BITE203L	Principles of Communication Systems	3	0	0	3	BECE101L, BECE101P

(Annexure 25)

The Academic Council considered and approved the same.

Item 64/31 To consider and ratify the following twenty three (23) new Extra Curricular Activity courses. Forty four (44) Extra-Curricular Activity courses have been already approved in the meeting of the 45th Academic Council held on 15th June 2017 [Item. No. 45.6].

Extra-Curricular Activity Courses	
Course Code	Course Title
EXC1201	Data Science Club (DSC)
EXC1202	ISHRAE (Indian Society of heating Refrigeration and Airconditioning Engineering)
EXC1203	IET Student's Chapter
EXC1204	Energy and fuel User's Association (ENFUSE)
EXC1205	ENACTUS
EXC1206	OWASP (Open Web Application Security Project)
EXC1207	Indian Concrete Institute Student Chapter
EXC1208	Game Development Club
EXC1209	Microsoft Innovation Club
EXC1210	Code Chef Campus Chapter
EXC1211	Socrates
EXC1212	Nutrition Club
EXC1213	The Comedy Club
EXC1214	The Red Ribbon Club
EXC1215	IEEE Photonics Society
EXC1216	Fraternity of Young Innovators (FYI)
EXC1217	VoiceIT-VIT Chennai's Radio
EXC1218	The Capsule - VIT Newsletter Club

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R. S. Kudali

EXC1219	VIT Finance and Management Club
EXC1220	Zero Bugs Club
EXC1221	The Hack Club
EXC1222	The White Helmets
EXC1223	Autonomous Unmanned Vehicle Club

(Annexure 26)

The Academic Council considered and approved the same.

Item 64/32

To consider and approve the course contents for the following eleven (11) Discipline Core courses, twelve (12) Discipline Elective courses, nine (9) Open Elective courses, seven (7) Skill Enhancement courses and three (3) Ability Enhancement courses offered in Bachelor of Commerce (Honours). The curriculum was approved in the 63rd meeting of the Academic Council held on 23rd September 2021 [Item. No 63/21].

Discipline Core Courses					
Course Code	Course Title	L	T	P	C
UCCA251L	Cost Accounting	3	1	0	4
UCCA252L	Financial Management	3	1	0	4
UCCA253L	Human Resource Management	3	1	0	4
UCCA254L	Accounting Software for Business	0	0	4	2
UCCA255L	Management Accounting	3	1	0	4
UCCA256E	Computer Applications in Business	3	0	2	4
UCCA351L	Business Research Methods	3	1	0	4
UCCA352L	Auditing and Corporate Governance	3	1	0	4
UCCA353L	Income Tax Law and Practice	3	1	0	4
UCCA354L	International Business	3	1	0	4
UCCA355L	Entrepreneurship Development	3	1	0	4
Discipline Electives					
UCCA257L	Indirect Taxation	3	1	0	4
UCCA258L	Insurance Management	3	1	0	4
UCCA259L	Financial Markets and Institutions	3	1	0	4
UCCA260L	Forensic Accounting and Fraud Investigation	3	1	0	4
UCCA261L	Investment Analysis and Portfolio Management	3	1	0	4
UCCA262L	Financial Risk Management	3	1	0	4
UCCA263L	Personal Finance and Planning	3	1	0	4
UCCA264L	Corporate Financial Reporting	3	1	0	4
UCCA265L	Financial Technology	3	1	0	4
UCCA266L	E-Commerce	3	1	0	4
UCCA267L	Organisational Behaviour	3	1	0	4
UCCA268L	Artificial Intelligence for Business	3	1	0	4
Open Electives					
UCCA356L	Principles of Integrated Marketing Communication	3	1	0	4
UCCA357L	Services Marketing	3	1	0	4
UCCA358L	Digital Marketing	3	1	0	4
UCCA359L	Labour laws and Industrial Relations	3	1	0	4
UCCA360L	Emotional Intelligence	3	1	0	4
UCCA361L	Strategic Management	3	1	0	4
UCCA362L	Operations Research Techniques	3	1	0	4
UCCA363L	Supply Chain Management	3	1	0	4
UCCA364L	Business Analytics	3	1	0	4
Skill Enhancement Courses					
UCCA171L	Collective Bargaining and Negotiation Skills	2	0	0	2
UHUM151L	Intra and Inter Personal Skills	2	0	0	2
UCCA172L	Office Management	2	0	0	2
UCCA173L	Cyber Security	2	0	0	2
UCCA174L	Event Management	2	0	0	2

Signature

R. K. Kodali

	UCCA175L	Stock Market Operations	2	0	0	2							
	UCCA176L	New Venture Planning and Development	2	0	0	2							
	Ability Enhancement Courses												
	UTAM101L	Tamil	3	0	0	3							
	UHIN101L	Hindi	3	0	0	3							
	UFRE101L	French	3	0	0	3							
	(Annexure 27)												
	The Academic Council considered and approved the same.												
Item 64/33	To consider and approve the change in component credit structure for the following two (2) Programme Elective courses offered in Bachelor of Technology in Computer Science and Engineering with Specialization in Cyber Physical Systems. The curriculum was approved in the 55 th meeting of the Academic Council held on 13 th June 2019 [Item.No.55.10.1].												
	Programme Electives												
	Course Code	Course Title	Existing Credit Structure					Proposed Credit Structure					Prerequisite
			L	T	P	J	C	L	T	P	J	C	
	CSE4073	Cyber Physical Systems for Internal and External Security	2	0	0	4	3	3	0	0	4	4	CSE3076
	CSE3075	Machine Vision	2	0	0	4	4	2	0	0	4	3	CSE3074
	(Annexure 28)												
	The Academic Council considered and approved the same.												
Item 64/34	To consider and approve the prerequisite for the following two (2) Programme Elective courses offered in Bachelor of Technology in Computer Science and Engineering with Specialization in Cyber Physical Systems. The curriculum was approved in the 55 th meeting of the Academic Council held on 13 th June 2019 [Item.No.55.10.1].												
	Programme Electives												
	Course Code	Course Title	L	T	P	J	C	Prerequisite					
	CSE3113	Telemedicine	2	0	2	0	3	CSE3064					
	CSE3095	Ambient Assisted Living	2	0	0	4	3	CSE3064					
	The Academic Council considered and approved the same.												
Item 64/35	To consider and ratify the course contents for the following four (4) Programme Core courses offered in Five Year Integrated Master of Technology in Computer Science and Engineering with Specialization in Business Analytics. The curriculum was approved in the 55 th meeting of the Academic Council held on 13 th June 2019 [Item.No.55.10.3].												
	Programme Core Courses												
	Course Code	Course Title	L	T	P	J	C	Prerequisite					
	CSE3036	Software Engineering	3	0	2	0	4	NIL					
	CSE3038	Theory of Computation & Compiler Design	3	0	0	0	3	NIL					
	CSE3120	Big Data Frameworks	2	0	2	4	4	NIL					
	CSE3121	Information Visualization	2	0	2	4	4	NIL					
	(Annexure 29)												
	The Academic Council considered and approved the same.												

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Item 64/36	<p>To consider and approve the change of existing course codes for the following two (2) Programme Core courses and thirteen (13) Programme Elective courses offered in Bachelor of Technology in Computer Science and Engineering with Specialization in Artificial Intelligence and Robotics. The curriculum was approved in the 59th meeting of the Academic Council held on 24th September 2020 [Item. No. 59.13.9].</p>																																																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">Programme Core Courses</th> </tr> <tr> <th style="width: 15%;">Existing Course Code</th> <th style="width: 55%;">Course Title</th> <th style="width: 15%;">Proposed Course Code</th> <th style="width: 15%;">Prerequisite</th> </tr> </thead> <tbody> <tr> <td>CSE3103</td> <td>Fundamentals of Autonomous Systems</td> <td>CSE2038</td> <td></td> </tr> <tr> <td>CSE3104</td> <td>Fundamentals of Artificial Intelligence</td> <td>CSE2039</td> <td></td> </tr> <tr> <th colspan="4" style="text-align: center;">Programme Electives</th> </tr> <tr> <td>CSE1023</td> <td>Robot vision</td> <td>CSE4082</td> <td></td> </tr> <tr> <td>CSE1026</td> <td>Humanoid Robotics</td> <td>CSE4083</td> <td>CSE2038</td> </tr> <tr> <td>CSE1025</td> <td>Robot Programming</td> <td>CSE3115</td> <td>CSE3102</td> </tr> <tr> <td>CSE1027</td> <td>Nano and Neuro-robotics</td> <td>CSE4084</td> <td></td> </tr> <tr> <td>CSE1028</td> <td>Drone Applications, Components and Assembly</td> <td>CSE2040</td> <td>CSE2038</td> </tr> <tr> <td>CSE2017</td> <td>Speech and Language Processing</td> <td>CSE3116</td> <td></td> </tr> <tr> <td>CSE2018</td> <td>Medical Robotics</td> <td>CSE4085</td> <td>CSE4082</td> </tr> <tr> <td>CSE2019</td> <td>Internet of Things</td> <td>CSE3117</td> <td></td> </tr> <tr> <td>CSE2022</td> <td>Cyber Physical Systems</td> <td>CSE3118</td> <td></td> </tr> <tr> <td>CSE2025</td> <td>Machine Diagnostics and Condition Monitoring</td> <td>CSE4086</td> <td></td> </tr> <tr> <td>CSE2023</td> <td>Robotic Process Automation</td> <td>CSE3119</td> <td></td> </tr> <tr> <td>CSE2024</td> <td>Advanced RPA developer</td> <td>CSE4087</td> <td></td> </tr> <tr> <td>CSE1016</td> <td>Deep Learning: Principles and Practices</td> <td>CSE4088</td> <td></td> </tr> </tbody> </table>		Programme Core Courses				Existing Course Code	Course Title	Proposed Course Code	Prerequisite	CSE3103	Fundamentals of Autonomous Systems	CSE2038		CSE3104	Fundamentals of Artificial Intelligence	CSE2039		Programme Electives				CSE1023	Robot vision	CSE4082		CSE1026	Humanoid Robotics	CSE4083	CSE2038	CSE1025	Robot Programming	CSE3115	CSE3102	CSE1027	Nano and Neuro-robotics	CSE4084		CSE1028	Drone Applications, Components and Assembly	CSE2040	CSE2038	CSE2017	Speech and Language Processing	CSE3116		CSE2018	Medical Robotics	CSE4085	CSE4082	CSE2019	Internet of Things	CSE3117		CSE2022	Cyber Physical Systems	CSE3118		CSE2025	Machine Diagnostics and Condition Monitoring	CSE4086		CSE2023	Robotic Process Automation	CSE3119		CSE2024	Advanced RPA developer	CSE4087		CSE1016	Deep Learning: Principles and Practices	CSE4088	
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<p>The Academic Council considered and approved the same.</p>																																																																									
Item 64/37	<p>To consider and approve the prerequisite for the following one (1) Programme Core course offered in Bachelor of Technology in Computer Science and Engineering with Specialization in Artificial Intelligence and Robotics. The curriculum was approved in the 59th meeting of the Academic Council held on 24th September 2020 [Item. No. 59.13.9].</p>																																																																								
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<p>The Academic Council considered and approved the same.</p>																																																																									
Item 64/38	<p>To consider and approve the change in course code for Extra-Curricular Activity basket offered in Bachelor of Business Administration (Honours). The curriculum was approved in the 58th meeting of the Academic Council held on 26th February 2020 [Item.58.6.1].</p>																																																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">University Core Course</th> </tr> <tr> <th style="width: 35%;">Course Title</th> <th style="width: 25%;">Existing Course Code</th> <th style="width: 40%;">Proposed Code</th> </tr> </thead> <tbody> <tr> <td>Extra-Curricular Activity</td> <td>EXC1001</td> <td>EXC3097</td> </tr> </tbody> </table>		University Core Course			Course Title	Existing Course Code	Proposed Code	Extra-Curricular Activity	EXC1001	EXC3097																																																															
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<p>The Academic Council considered and approved the same.</p>																																																																									
Item 64/39	<p>To consider and approve the revision of course content for the following one (1) University Core course offered in Bachelor of Business Administration (Honours). The curriculum was approved in the 58th meeting of the Academic Council held on 26th February 2020 [Item.58.6.1].</p>																																																																								

University Core Course							
Course Code	Course Title	L	T	P	J	C	Prerequisite
ENG1016	Writing Seminar	3	0	0	0	3	NIL

(Annexure 30)

The Academic Council considered and approved the same.

Item 64/40

To consider and approve the transfer of course "Foundation for Design" from Discipline Core course category to Engineering Sciences category and also to approve the contents of the course offered in Bachelor of Technology in Fashion Technology. The curriculum was approved in the 62nd meeting of the Academic Council held on 15th July 2021 [Item.No.62/22].

Engineering Sciences Course						
Course Code	Course Title	L	T	P	C	Prerequisite
BFST101E	Foundation for Design	2	0	2	3	NIL

(Annexure 31)

The Academic Council considered and approved the same.

Item 64/41

Reporting Item: VIT is accredited with A++ with a score of 3.66 in the IV Cycle of NAAC accreditation. Visit dates : 25 - 08 - 2021 to 27 - 08 - 2021, Criterion-wise Grade Point Averages are

No	Criteria	Weightage (W _i)	Criterion-wise weighted Grade Point (CrWGP _i)	Criterion-wise Grade Point Averages (CrWGP _i / W _i)
1	Curricular Aspects	150	570	3.8
2	Teaching-learning and Evaluation	200	715	3.58
3	Research, Innovations and Extension	250	862	3.45
4	Infrastructure and Learning Resources	100	400	4
5	Student Support and Progression	100	353	3.53
6	Governance, Leadership and Management	100	368	3.68
7	Institutional Values and Best Practices	100	387	3.87
Total		$\sum_{i=1}^7 (W_i) = 1000$	$\sum_{i=1}^7 (CrWGP_i) = 3655$	3.66

(Annexure 32)

Noted

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<p>Item 64/42</p> <p>Item 64/42.1</p>	<p>Any other item</p> <p>The following additional agenda items were placed:</p> <p>To consider and ratify the suggestions provided in the 62nd meeting of the Academic Council held on 15th July 2021 [Item No.62/13 to 25] regarding Workshop Practice and Engineering Design Visualization Lab in the revised programme credit structure and curriculum of Bachelor of Technology programmes and Five Year Integrated Master of Science in Biotechnology, Food Science and Technology and Five Year Integrated Master of Technology in Construction Technology and Management programmes from the year 2021-22 onwards.</p> <table border="1" data-bbox="304 472 1430 539"> <thead> <tr> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>Workshop Practice</td> <td>0</td> <td>0</td> <td>4</td> <td>2</td> </tr> </tbody> </table> <p>As suggested in the 62nd meeting of the Academic Council, it has been revisited and proposed to remove "Workshop Practice" from the "Foundation Core Courses" category of all the above programmes.</p> <table border="1" data-bbox="304 674 1430 741"> <thead> <tr> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>Engineering Design Visualization Lab</td> <td>0</td> <td>0</td> <td>4</td> <td>2</td> </tr> </tbody> </table> <p>As suggested in the 62nd meeting of the Academic Council held on 15th July 2021 [Item No.62/13 to 25], it has been revisited and proposed to retain "Engineering Design Visualization Lab" in the "Foundation Core Courses" category for the Bachelor of Technology in Mechanical Engineering and with Specializations, Civil Engineering, Chemical Engineering and Five Year Integrated M.Tech in Construction Technology and Management Programmes, whereas, this course is to be removed from all other programmes.</p> <p>The Academic Council considered and approved the same.</p>	Course Title	L	T	P	C	Workshop Practice	0	0	4	2	Course Title	L	T	P	C	Engineering Design Visualization Lab	0	0	4	2					
Course Title	L	T	P	C																						
Workshop Practice	0	0	4	2																						
Course Title	L	T	P	C																						
Engineering Design Visualization Lab	0	0	4	2																						
<p>Item 64/42.2</p>	<p>To consider and approve the revision of the programme credit structure and curriculum of Bachelor of Technology programmes and Five Year Integrated Master of Technology in Construction Technology and Management programme approved in 62nd Academic Council Meeting held on 15th July 2021 [Item No.62/13 to 25].</p> <table border="1" data-bbox="304 1178 1430 1245"> <thead> <tr> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>Engineering Mechanics</td> <td>2</td> <td>1</td> <td>0</td> <td>3</td> </tr> </tbody> </table> <p>The course "Engineering Mechanics" is proposed to be retained in the "Foundation Core Courses" category for the Bachelor of Technology in Mechanical Engineering and with Specializations, Civil Engineering, Chemical Engineering and Five Year Integrated Master of Technology in Construction Technology and Management programmes, whereas, for all the other programmes, this course will be offered under "Open Elective Courses" category. This will be effective from 2021 – 22 onwards.</p> <p>The Academic Council considered and approved the same.</p>	Course Title	L	T	P	C	Engineering Mechanics	2	1	0	3															
Course Title	L	T	P	C																						
Engineering Mechanics	2	1	0	3																						
<p>Item 64/42.3</p>	<p>To consider and approve the revision of the programme credit structure and curriculum of Bachelor of Technology and Five Year Integrated Master of Technology in Construction Technology and Management programmes approved in 62nd Academic Council Meeting held on 15th July 2021 [Item No.62/13 to 25]</p> <table border="1" data-bbox="304 1664 1430 1821"> <thead> <tr> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>Basic Electrical Engineering</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> </tr> <tr> <td>Basic Electrical Engineering Lab</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> </tr> <tr> <td>Basic Electronics</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> </tr> <tr> <td>Basic Electronics Lab</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> </tr> </tbody> </table>	Course Title	L	T	P	C	Basic Electrical Engineering	2	0	0	2	Basic Electrical Engineering Lab	0	0	2	1	Basic Electronics	2	0	0	2	Basic Electronics Lab	0	0	2	1
Course Title	L	T	P	C																						
Basic Electrical Engineering	2	0	0	2																						
Basic Electrical Engineering Lab	0	0	2	1																						
Basic Electronics	2	0	0	2																						
Basic Electronics Lab	0	0	2	1																						




	The above mentioned courses can be combined and offered as given below for Bachelor of Technology programmes and Five Year Integrated Master of Technology in Construction Technology and Management programme. This will be effective from 2022-23 onwards.				
	Course Title	L	T	P	C
	Basic Electrical and Electronics Engineering	3	0	0	3
	Basic Electrical and Electronics Engineering Lab	0	0	2	1
	The Academic Council considered and approved the same.				
Item 64/43	Vote of thanks				
	The Registrar appreciated and thanked the contribution of the former Deans and welcomed all the new Deans.				
	The meeting ended with vote of thanks by the Registrar.				

Sathyan

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

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

R.K. Kodali
23/12/21

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

Vice Chancellor
Vellore Institute of Technology (VIT)
Vellore - 632 014, Tamil Nadu, India