

ANNEXURE 1.2.1

S. No.	Details	Page No.
1	Excerpts of 18th Academic Council meeting minutes held on 24.02.2022	2
2	Excerpts of 19th Academic Council meeting minutes held on 29.09.2022	82
3	Excerpts of 20th Academic Council meeting minutes held on 13.04.2023	166

Excerpts of Minutes of 18th Academic Council Meeting



Minutes of the

Eighteenth meeting of the Academic Council

of

B.S. Abdur Rahman Crescent Institute of Science and Technology

held on

February 24, 2022

Online Meeting

- The Practical Examinations for all UG and PG Programmes were/ (are to be) conducted through physical mode in the Institution by following the COVID guidelines.
- The question paper patterns used for CAT-1 and CAT-2 in both Online Mode and Offline Mode (Physical Mode) are the same. The question paper pattern used for Semester End Examinations, in online mode and offline mode followed the formats as already approved in the 16th meeting of Academic Council. In Programmes viz. B.A Public Policy, MBA, have their own approved question paper pattern in some courses to meet the requirements and to maintain the uniqueness of their evaluation system.

The Academic Council may consider and note the same.

Resolution:

After deliberations, the agenda item was noted and approved.

ITEMS MOVED BY CHAIRMAN, BOARD OF STUDIES

SCHOOL OF INFRASTRUCTURE

DEPARTMENT OF CIVIL ENGINEERING

Item 18.6

To consider and approve the recommendations of the Board of Studies of the Department of Civil Engineering.

Item 18.6.1

To consider and approve the syllabi (III & IV semester) of B.Tech. Civil Engineering under Regulations 2021.

Note on Agenda:

The major revisions in curriculum of B.Tech. Civil Engineering under Regulations 2021 and syllabi of I & II Semester courses were approved in the 17th meeting of Academic Council and accordingly implemented from the year AY 2021-2022.

In the 16th meeting of Board of Studies of Civil Engineering Department, which was held on 05th January 2022, the syllabi of III & IV semester courses were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The Salient features of B.Tech. Civil Engineering curriculum under R-2021 with respect to “Introduction of New courses” and “Courses with Syllabus revisions” are as follows:

I. Semester I & II (AY 2021-2022)

a) New courses introduced.

Course Code	Course Title	Credits
PHD 1183	Mechanics of Solids	4
CED 1201	Building Construction and Practices	3
CED 1202	Surveying	4

b) Courses with Syllabus revisions:

Course Code	Course Title	Credits	Revision (%)
CED 1203	Civil Engineering Drawing	1	25 %

II. Semester III & IV (AY 2022-2023)

a) New courses proposed:

Course Code	Course Title	Credits
CED 2101	Mechanics of Structures	3
CED 2104	Water and Waste Water Engineering	4
CED 2105	Transportation Engineering	3
CED 2201	Mechanics of Soils	4
CED 2203	Structural Concrete Design	4
CED 2205	Water Resources Engineering	3
CEDX 31	Engineering Geology	3
CEDX 51	Water Distribution Systems	3
CEDX 71	GPS& Drone Surveying	3
CEDX 72	Principles of Architecture	3
CEDX 73	Vastu Sastra and Architectural Design	3

b) Courses with syllabus revisions (proposed):

Course Code	Course Title	Credits	Revision (%)
CED 2102	Mechanics of Fluids	3	20 %
CED 2103	Concrete Technology	3	25 %
CED 2202	Structural Analysis I	3	20 %
CED 2204	Estimation and Costing of Infrastructure	3	30 %

	Projects		
CEDX 16	Advanced Concrete Technology	3	25 %
CEDX 41	Air and Noise Pollution Control	3	20 %
CEDX 42	Solid Waste Management	3	20 %

The Curriculum and syllabi of the courses (III & IV Semester) of B.Tech., Civil Engineering under R 2021 are given in [Annexure 18.6.1](#). The Academic Council may consider and approve the same for implementation from the academic year 2022-2023.

Resolution:

After deliberations, the agenda item was approved.

Item 18.6.2

To consider and approve the revision in the curriculum and syllabi of B.Tech Civil Engineering under Regulations 2017.

Note on Agenda:

Based on the feedback from faculty members and students, the course 'CEC 4107 - Water Resources Engineering' is introduced as a core course in the VII Semester of B.Tech. Civil Engineering under Regulations 2017.

This was discussed in the 16th meeting of Board of Studies of the Department of Civil Engineering and the board has recommended the same for approval. The revised curriculum and syllabus of the course 'CEC 4107 - Water Resources Engineering' of B.Tech Civil Engineering under Regulations 2017 are given in [Annexure 18.6.2](#).

The Academic Council may consider and approve the same.

Resolution:

After deliberations, the agenda item was approved.

SCHOOL OF MECHANICAL SCIENCES

DEPARTMENT OF MECHANICAL ENGINEERING

Item 18.7

To consider and approve the recommendations of the Board of Studies of the Department of Mechanical Engineering

Item 18.7.1

To consider and approve the syllabi of (III & IV semester core courses and the elective courses) of B.Tech. Mechanical Engineering under Regulations 2021.

Note on Agenda:

The major revision in the curriculum of B.Tech. Mechanical Engineering under R 2021 & Syllabi of I & II Semester courses were approved in the 17th meeting of the Academic Council and accordingly implemented from the year AY 2021-2022.

In the 19th meeting of the Board of Studies of Mechanical Engineering Department which was held on 21.12.2021, the syllabi of III & IV Semester Core Courses and the elective courses were deliberated. After deliberations, the board has recommended the same for approval in the Academic Council.

The salient features of the B.Tech. Mechanical Engineering curriculum under R 2021 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I & II (AY 2021-22)

a) New Course introduced:

Course Code	Course Title	Credits
MED 1211	Engineering Materials	3

b) Courses with Syllabus revision:

Course Code	Course Title	Credits	Revision (%)
GED 1101	Engineering Graphics	3	25%
GED 1102	Engineering Design	2	25%
GED 1103	Manufacturing Practices Laboratory	1	20%
GED 1201	Engineering Mechanics	4	20%
MED 1212	Design Appreciation Laboratory	1	20%

II. Semester III and IV (AY 2022-23)

a) New Courses Proposed:

Course Code	Course Title	Credits
MED 2105	Machine Drawing Laboratory	1
MED 2214	Materials Engineering and Technology	3
MED 2215	Machine Tools and Metrology	4
MEDX61	Advanced Welding Processes	3
MEDX62	Advanced Casting and Forming Process	3
MEDX 81	Powder Metallurgy	3

MEDX 89	Materials for Energy Technologies	2
MEDX 92	Physical Metallurgy	1

b) Courses with syllabus revision (Proposed):

Course Code	Course Name	Credits	Revision (%)
MED 2101	Solid Mechanics	3	20%
MED 2102	Engineering Thermodynamics	3	20%
MED 2103	Theory of Machines	4	35%
MED 2104	Basic Manufacturing Processes	3	20%
MED 2106	Mechanics Laboratory	1	20%
MED 2211	Thermal Engineering	4	20%
MED 2212	Fluid Mechanics and Machinery	4	20%
MED2213	Design of Machine Elements	4	20%
MEDX 02	Design of Hydraulics and Pneumatics	3	20%
MEDX03	Noise, Vibration and Harshness	3	20%
MEDX 33	Nuclear Engineering	3	20%
MEDX 43	Combustion of Fuels	2	20%
MEDX 44	Alternate Fuels	1	20%

The curriculum and syllabi of III & IV semester core and elective courses of B.Tech. Mechanical Engineering under R 2021 are given in [Annexure 18.7.1](#). The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 18.7.2

To consider and approve the syllabi of Ph.D. courses offered to Ph.D. Scholars of Mechanical Engineering Department.

Note on Agenda:

In the 19th meeting of the Board of Studies of Mechanical Engineering Department, which was held on 21.12.2021, the syllabi of the following courses offered to Ph.D. scholars were deliberated. After deliberations, the board has recommended the same for approval in the Academic Council.

Course Code	Course Name	Credit
MEZ 931	Formulation and Characterization of Friction	3

	Materials	
MEZ 932	Surface Engineering and Coating Technology	4

The syllabi of the courses 'MEZ 931 - Formulation and Characterization of Friction Materials' and 'MEZ 932 - Surface Engineering and Coating Technology' are given in [Annexure 18.7.2.](#)

The Academic Council may consider and approve the same.

Resolution:

After deliberations, the agenda item was approved.

DEPARTMENT OF AEROSPACE ENGINEERING

Item 18.8

To consider and approve the recommendations of the Board of Studies of the Department of Aerospace Engineering.

Item 18.8.1

To consider and approve the syllabi (III & IV semester) of B.Tech Aeronautical Engineering under Regulations 2021.

Note on Agenda:

The major revision in curriculum of B.Tech. Aeronautical Engineering under R 2021 & Syllabi of I & II Semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the year AY 2021-2022.

In the 15th meeting of Board of Studies of Aerospace Engineering Department which was held on 11th December 2021, the syllabi of III and IV Semester Courses were deliberated. After deliberations, the board has recommended the same for approval in the Academic Council.

The salient features of the B.Tech. Aeronautical Engineering curriculum under R 2021 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I & II (AY 2021-22)

a) New Courses introduced:

Course Code	Course Title	Credits
AED 1211	Basics of Aeronautical Engineering	3

II. Semester III and IV (AY 2022-23)

a) New Courses Proposed:

Course Code	Course Title	Credits
AED 2014	Aircraft Material and Manufacturing Processes	3
AED 2213	Propulsion I	3
AED 2215	Experimental Aerodynamics	4
AEDX 08	Space Mechanics	3
AEDX 16	Machine Design	3
AEDX 25	Aviation Rules and Regulation	3

b) Courses with syllabus revision (Proposed):

Course Code	Course Name	Credits	Revision (%)
AED2102	Engineering Thermodynamics	4	25%
AED2103	Fluid Mechanics	4	25%
AED2105	Aircraft Component and Assembly Drawing Laboratory	1	30%
AED2214	Aircraft Systems and Instruments	4	25%

The curriculum and syllabi of the courses (III and IV Semester) of B.Tech Aeronautical Engineering under R 2021 are given in [Annexure 18.8.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

DEPARTMENT OF AUTOMOBILE ENGINEERING

Item 18.9

To consider and approve the recommendations of the Board of Studies of the Department of Automobile Engineering

Item 18.9.1

To consider and approve the syllabi (III & IV semester) of B.Tech (Automobile Engineering) under Regulations 2021.

Note on Agenda:

The major revision in curriculum of B.Tech. (Automobile Engineering) under R 2021 & Syllabi of I & II Semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the year AY 2021-2022.

In the 13th meeting of Board of Studies of Automobile Engineering Department, which was held on 15th December 2021 the syllabi of III & IV Semester courses were deliberated. After deliberations, the board has recommended the same for approval in the Academic Council.

The salient features of the B.Tech. (Automobile Engineering) curriculum under R 2021 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester III & IV (AY 2022-23)

a) New Courses Proposed:

Course Code	Course Name	Credits
AUD 2101	Engineering Thermodynamics	4
AUD 2103	Manufacturing Processes	3
AUD 2104	Automotive Engines	4
AUD 2211	Two and Three Wheelers Technology	3
AUD 2213	Automotive Transmission	4
AUDX01	Alternative Fuels and Energy Systems	3
AUDX03	Combustion Thermodynamics	3
AUDX05	Heat and Mass Transfer	3

b) Courses with syllabus revision (Proposed):

Course Code	Course Name	Credits	Revision (%)
AUD 2102	Strength of Materials	4	25%
AUD 2105	Automotive Component Modelling Laboratory	1	20%
AUD 2212	Automotive Materials and Metallurgy	3	25%
AUD 2214	Mechanics of Machinery	4	20%
AUD 2215	Automotive Chassis	3	30%

Course Code	Course Name	Credits	Revision (%)
AUD 2216	Automotive Chassis Lab	1	30%
AUDX02	Simulation of I.C. Engine Processes	3	20%
AUDX04	Power Plant Engineering	3	20%
AUDX06	Fuel Cell Technology	3	20%

The curriculum and syllabi of the courses (III and IV Semester) of B.Tech (Automobile Engineering) under R 2021 are given in [Annexure 18.9.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

DEPARTMENT OF POLYMER ENGINEERING

Item 18.10

To consider and approve the recommendations of the Board of Studies of the Department of Polymer Engineering.

Item 18.10.1

To consider and approve the syllabi (III and IV semester) of B.Tech (Polymer Engineering) under Regulations 2021.

Note on Agenda:

The major revision in curriculum of B.Tech (Polymer Engineering) under R 2021 and Syllabi of I & II Semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the year AY 2021-2022.

In the 14th meeting of Board of Studies of Polymer Engineering Department which was held on 15th December 2021, the syllabi of III and IV semester courses were deliberated. After deliberations, the board has recommended the same for approval in the Academic Council.

The salient features of the B.Tech (Polymer Engineering) curriculum under R 2021 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I & II (AY 2021-22)

a) New Courses introduced:

Course Code	Course Title	Credits
PED 1201	Basics of Machining	2
PED1202	Principles of Chemical Engineering	3

II. Semester III and IV (AY 2022-23)

a) New Courses (Proposed):

Course Code	Course Title	Credits
PED2103	Thermoset Materials Technology	3
PED2105	Biodegradable Polymers	3
PED2201	Thermoplastics	3
PED2203	Rubber Processing Technology	3
PEDX04	Nanoscience and Technology	3
PEDX07	Fibre Technology	3

b) Courses with syllabus revision (Proposed):

Course Code	Course Name	Credits	Revision (%)
PED2101	Polymer Chemistry	3	25%
PED2102	Polymer Physics	3	40%
PED2104	Science and Technology of Rubbers	3	25%
PED2202	Polymer Compounding Technology	3	25%
PED2203	Rubber Processing Technology	3	25%
PED2204	Analysis and Characterization of Polymers	3	40%

The syllabi of the courses (III and IV Semester) of B.Tech. (Polymer Engineering) under R 2021 are given in [Annexure 18.10.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

SCHOOL OF ELECTRICAL AND COMMUNICATION SCIENCES

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Item 18.11

To consider and approve the recommendations of the Board of Studies of the Department of Electrical and Electronics Engineering.

Item 18.11.1

To consider and approve the syllabi (III & IV semester) of B.Tech. EEE under Regulations 2021.

Note on Agenda:

The major revision in curriculum of B. Tech EEE under R 2021 & Syllabi of I & II Semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the year AY 2021-2022.

In the 16th meeting of Board of Studies of EEE Department, which was held on 13th December 2021 the syllabi of III and IV semester courses including the professional elective courses were deliberated. After deliberations the board has recommended the same for approval in the Academic Council.

The salient features of the B. Tech. EEE curriculum under R 2021 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I & II (AY 2021-22)

a) New Courses introduced:

Course Code	Course Title	Credits
GED 1202	Basic Electrical and Electronics Engineering	4
GED 1204	Basic Electrical and Instrumentation Engineering	4
GED 1203	Basic Electrical Engineering	4
EED 1202	Signals and Systems	3
EED 1201	Electric and Magnetic Circuits	3

b) Courses with Syllabus revision:

Course Code	Course Name	Credits	Revision (%)
GED 1103	Manufacturing Practices Laboratory	1	20%
EED 1203	Electric Circuits Laboratory	1	60%

II. Semester III and IV (AY 2022-23)

a) New Courses Proposed:

Course Code	Course Title	Credits
EED 2104	Transmission and Distribution	3
EED 2205	Python for Electrical Engineers	3
EEDX62	Solar Energy Technology	3

b) Courses with syllabus revision (Proposed):

Course Code	Course Name	Credits	Revision (%)
EED 2101	Electronic Devices	3	25%
EED 2102	Electro Magnetic Theory	3	25%
EED 2103	Electromechanical Energy Conversion	3	50%
EED 2105	Electronic Devices Laboratory	1	30%
EED 2106	Electromechanical Energy Conversion Laboratory	1	20%
EED 2201	AC Machines	3	25%
EED 2202	Digital Electronics	3	25%
EED 2203	Electrical Measurement and Instrumentation	3	40%
EED 2204	Power System Protection	3	25%
EED 2206	AC Machines Laboratory	1	20%
EED 2207	Digital Electronics Laboratory	1	20%
EEDX02	Electric Energy Generation, Utilization and Conservation	3	20%
EEDX 12	Network Analysis and Synthesis	3	20%

The curriculum and syllabi of the courses (III & IV semester) of B. Tech. EEE under R 2021 are given in [Annexure 18.11.1](#). The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 18.11.2

To consider and ratify the revision in the curriculum & syllabi of M.Tech Power Systems Engineering under R 2019.

Note on Agenda:

The course EEDY 040 - 'Electric Vehicle and Power Management' was included as an elective course in the curriculum of M.Tech. (Power Systems Engineering) under Regulations 2019. This revision was deliberated in the 16th Meeting of Board of Studies of the Department of Electrical and Electronics Engineering and the board has recommended the same for ratification with effect from AY 2021-22.

The ratified curriculum of M.Tech PSE under R 2019 & syllabus of the course EEDY 040 -'Electric Vehicle and Power Management' are given in [Annexure 18.11.2](#).

The Academic Council may consider and ratify the same for implementation from academic year 2021-22.

Resolution:

The agenda item was ratified with effect from the academic year 2021-22.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Item 18.12

To consider and approve the recommendations of the Board of Studies of the Department of Electronics and Communication Engineering.

Item 18.12.1

To consider and approve the syllabi of III & IV semester (Core and Professional elective courses) of B.Tech. ECE under Regulations 2021.

Note on Agenda:

The major revision in curriculum of B.Tech. ECE programme under R 2021 & Syllabi of I & II semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the year AY 2021-2022.

In the 22nd meeting of Board of Studies of B.Tech. ECE Department which was held on 14-12-2021, the syllabi of III & IV Semester Courses including professional elective courses of B.Tech. ECE programme under R 2021 were deliberated. After deliberations, the board has recommended the same for approval in the Academic Council.

The salient features of the B.Tech. ECE curriculum under R 2021 with respect to

'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I & II (AY 2021-22)

a) Courses with Syllabus revision:

Course Code	Course Title	Credits	Revision (%)
ECD1201	Electron Devices	3	30%
ECD1202	Circuit and Network Analysis	3	20%
ECD1203	Electron Devices Laboratory	1	20%

II. Semester III and IV (AY 2022-23)

a) New Courses Proposed:

Course Code	Course Title	Credits
ECDX 003	Data structure and its algorithms	3
ECDX 004	Sensors and Actuators	3

b) Courses with syllabus revision (Proposed):

Course Code	Course Title	Credits	Revision (%)
ECD 2101	Analog Electronic Circuits	3	20%
ECD 2102	Digital Electronics	3	20%
ECD 2103	Electromagnetics and Transmission Line Theory	3	20%
ECD 2202	Linear Integrated Circuits*	3	40%
ECD 2104	Signals and Systems*	4	20%
ECD 2105	Analog Electronic Circuits Laboratory	1	30%
ECD 2106	Digital Electronics Laboratory	1	20%
ECD 2203	VLSI Design	3	40%
ECD 2204	Digital Signal Processing	4	40%
ECD 2205	Microcontroller Architecture and Programming	3	30%
ECD 2206	Microcontroller Programming Laboratory	1	20%
ECD 2207	VLSI Design Laboratory	1	40%
ECD 2208	Digital Signal Processing Laboratory	1	20%
ECDX 001	Computer Architecture	3	30%
ECDX 002	Control Systems	3	20%

The curriculum and syllabi of the courses (III & IV Semester) of B.Tech ECE programme under R 2021 are given in [Annexure 18.12.1](#). The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 18.12.2

To consider and approve the syllabi of IV & V Semester professional elective courses offered by the ECE department to the B.Tech. EEE programme under Regulations 2021.

Note on Agenda:

The syllabi of the following professional electives which are offered to B.Tech EEE programme under Regulations 2021 by the ECE department were deliberated in the 22nd meeting of board of studies. After deliberations the board has recommended the same for approval in the Academic Council.

Course Code	Course Title	Credits
ECDX 011	ARM architecture and Programming	3
ECDX 081	Communication Engineering	3
ECDX 082	Digital Signal Processing	3
ECDX 086	Computer Communication Networks	3

The syllabi of the professional elective courses of B.Tech. EEE programme under R 2021 offered by the ECE are given in [Annexure 18.12.2](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 18.12.3

To consider and approve the syllabus of Vth Semester core course offered by the ECE department to the B.Tech. EIE programme under Regulations 2021.

Note on Agenda:

The syllabus of the core course “ECD3182 Communication Engineering” which is offered by the ECE department to the B.Tech EIE programme under Regulations 2021 was

deliberated. After deliberations the board has recommended the same for approval in the Academic Council.

Course Code	Course Title	Credits
ECD 3182	Communication Engineering	3

The syllabus of the course ECD 3182 - Communication Engineering is given in [Annexure 18.12.3](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Item 18.13

To consider and approve the recommendations of the Board of Studies of the Department of Electronics and Instrumentation Engineering.

Item 18.13.1

To consider and approve the syllabi (III & IV) of B.Tech. EIE programme Core and Elective courses under Regulations 2021.

Note on Agenda

The major revision in curriculum of B.Tech Electronics and Instrumentation Engineering under R 2021 & syllabi of I & II semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the year AY 2021-2022.

In the 17th meeting of Board of Studies of Electronics and Instrumentation Engineering Department, which was held on 16.12.2021, the syllabi of III and IV semester courses were deliberated. After the deliberations, the board has recommended the same for approval in the Academic Council.

The salient features of the B.Tech Electronics and Instrumentation Engineering under R2021 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I & II (AY 2021-22)

a) New courses Introduced:

Course Code	Course Name	Credits
EID 1201	Network analysis and synthesis	3

EID 1203	Electron Devices and Network synthesis Laboratory	1
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II. Semester III and IV (AY-2022-23)

a) New courses Proposed:

Course Code	Course Name	Credits
EID 2204	Python for Instrumentation Engineers	3
EID X41	MEMS and Nanoscience	3
EID X42	Applied Power Electronics	3
EID X62	R-Programming	3

b) Courses with syllabus Revision (proposed):

Course Code	Course Name	Credits	Revision (%)
EID2101	Digital Electronics	4	20%
EID 2102	Linear Integrated Circuits	4	20%
EID2103	Transducer Engineering	3	20%
EID 2203	Microprocessor and Microcontroller	3	20%
MED2281	Thermodynamics and Fluid Mechanics	3	20%

The curriculum and syllabi of the courses (III & IV Semester) of B.Tech Electronics and Instrumentation Engineering under R 2021 are given in [Annexure 18.13.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

SCHOOL OF COMPUTER, INFORMATION AND MATHEMATICAL SCIENCES

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Item 18.14

To consider and approve the recommendations of the Board of Studies of the Department of Computer Science and Engineering

Item 18.14.1

To consider and approve the syllabi (III & IV semester) courses of B.Tech. Computer Science and Engineering; B.Tech. CSE (Internet of Things); B.Tech. CSE (Cyber Security) and B.Tech. (Artificial Intelligence and Data Science) under Regulations 2021.

Note on Agenda:

The major revision in curriculum of B.Tech. Computer Science and Engineering; B.Tech. CSE (Internet of Things); B.Tech. CSE (Cyber Security) and B.Tech. (Artificial Intelligence and Data Science) under R 2021 and Syllabi of I & II Semester courses of these programmes was approved in the 17th meeting of Academic Council and accordingly implemented from the year AY 2021-2022.

In the 19th meeting of Board of Studies of Department of Computer Science & Engineering which was held on 28.12.2021, the syllabi of III & IV Semester Courses of B.Tech. Computer Science and Engineering; B.Tech. CSE (Internet of Things); B.Tech. CSE (Cyber Security) and B.Tech. (Artificial Intelligence and Data Science) were deliberated. After deliberations the board has recommended the same for approval in the Academic Council.

The salient features of the B.Tech. Computer Science and Engineering; B.Tech. CSE (Internet of Things); B.Tech. CSE (Cyber Security) and B.Tech. (Artificial Intelligence and Data Science) curriculum under R 2021 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. B.Tech. Computer Science and Engineering R 2021

a) Semester I & II (AY 2021-2022)

i) New Courses Introduced:

Sl. No.	Course Code	Course Title	Credits
1	CSD 1101	Programming for Problem Solving	2
2	CSD 1201	Object Oriented Programming	3

b) Semester III & IV (AY 2022-2023)

i) New Courses (Proposed)

Sl. No.	Course Code	Course Title	Credits
1.	CSD 2101	Python Programming	3
2.	CSD 2105	Python Programming Laboratory	1

3.	CSD 2201	Computer Communication and Networks	3
4.	CSD 2207	Database Management Systems Laboratory	1
(Professional Electives)			
5.	CSDX 210	Software Configuration and Risk Management	3

ii) Courses with Syllabus Revision

a. Core Courses

S. No.	Course Code	Course Name	Credits	Revision%
1.	CSC 1211	Digital Systems	4	20%
2.	CSC 2101	Data Structures	3	20%
3.	CSC 2103	Software Engineering	3	20%
4.	CSC 2105	Data structures Laboratory	1	20%
5.	CSC 2211	Computer architecture and Microprocessor	3	40%
6.	CSC 2212	Analysis of Algorithms	3	20%
7.	CSC 2214	Database Management Systems	3	50%
8.	CSC 2215	Database Management System Laboratory	1	20%
9.	CSC 3101	Operating Systems	4	20%

b. Professional Electives (IV Semester)

S.No	CourseCode	Course Name	Credits	Revision%
1.	CSDX 201	Digital Transmission	3	20%
2.	CSDX 202	Cellular and Wireless Networks	3	20%
3.	CSDX 203	Design of Computer Network services	3	20%
4.	CSDX 204	Scripting Languages	3	20%
5.	CSDX 205	Information Retrieval	3	20%
6.	CSDX 206	Multimedia Design program	3	20%
7.	CSDX 207	Sound Editing and processing	3	20%

8.	CSDX 208	Multimedia Application Development.	3	20%
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II. B.Tech. CSE (Internet of Things) under R2021

Semester III & IV (AY 2022-23)

a) Courses with Syllabus revision (Proposed):

Sl. No.	Course Code	Course Title	Credits	Revision (%)
1.	CSD 2241	Microprocessor and Embedded System Design	3	90%
2.	CSD 2242	Microprocessor and Embedded System Design Laboratory	1	50%

III. B.Tech. CSE (Cyber Security)

Semester III & IV (AY 2022-23)

a) New Courses (Proposed):

S. No	Course Code	Course Title	Credits
1.	CSD 2231	Computer and Information Security Fundamentals	3
2.	CSD2232	Information Security Laboratory	1

IV. B.Tech. Artificial Intelligence and Data Science) under R 2021

A. Semester I & II (AY 2021-22)

i) Courses with Syllabus revision (Proposed):

Sl. No.	Course Code	Course Title	Credits	Revision(%)
1.	CSD 1251	Artificial Intelligence	3	30

B. Semester III and IV (AY 2022-23)

i) Courses with Syllabus revision (Proposed):

Sl. No.	Course Code	Course Title	Credits	Revision(%)
1.	CSD 2152	Programming in Python Language	3	20
2.	CSD 2153	Principles of Software Engineering	3	25

3.	CSD 2154	Database Management and SQL	3	20
4.	CSD 2155	Foundations of Data Structures Laboratory	1	20
5.	CSD 2156	Database Management and SQL Laboratory	1	20
6.	CSD 2157	Python Programming Laboratory	1	20
7.	CSD 2251	Networking Methodologies	4	40
8.	CSD 2253	Knowledge Engineering	3	20
9.	CSD 2254	Data Warehousing and Data Mining	3	20
10.	CSD 2256	Fundamentals of Operating System	3	20
11.	CSD 2258	Data Mining Tools Laboratory	1	20

The curriculum and syllabi of the courses (III & IV Semester) of B.Tech. Computer Science and Engineering; B.Tech. CSE (Internet of Things); B.Tech. CSE (Cyber Security) and B.Tech. (Artificial Intelligence and Data Science) under R 2021 are given in [Annexure 18.14.1\(a\)](#), [18.14.1\(b\)](#), [18.14.1\(c\)](#) & [18.14.1\(d\)](#)

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 18.14.2

To consider and approve the syllabi of elective courses of B.Tech. (Artificial Intelligence and Data Science) and B.Tech. CSE (Cyber Security) under Regulations 2017.

Note on Agenda:

The syllabi of elective courses offered to of B.Tech. (Artificial Intelligence and Data Science) and B.Tech. CSE (Cyber Security) were deliberated in the 19th Board of Studies of Department of Computer Science & Engineering held on 28.12.2021. After deliberations,

the board has recommended the same for approval in the Academic Council.

i. B.Tech. (Artificial Intelligence and Data Science) – New Elective Courses

Course Code	Course Name	Credits
CSCX 501	IoT Architecture and Protocol	3
CSCX 502	Intelligent Information Retrieval	3
CSCX 503	Digital Image Processing	3
CSCX 504	Advanced Python for Data science	3
CSCX 505	Web and Social Media Mining	3
CSCX 506	Statistics for Business Analytics	3
CSCX 507	Automata Theory	3
CSCX 508	Web and Social Media Analytics	3
CSCX 509	Advanced Artificial Intelligence Systems	3
CSCX 510	Cognitive Analytics	3
CSCX 511	Secure Cloud Computing	3
CSCX 512	Security Risk Assessment and Management	3
CSCX 513	Information Security	3
CSCX 515	Cyber Crime and Computer Ethics	3
CSCX 516	Secure Web App	3

ii. B.Tech. CSE (Cyber Security) – New Elective Courses

Course Code	Course Name	Credits
CSC X 301	Agile Software Development	3
CSC X 303	Malware Analysis	3
CSC X 305	Secure Software Development Life Cycle	3
CSCX 302	Multimedia security	3
CSC X 407	Cyber Crime Investigation and Digital Forensics	3
CSC X 408	Information Security Intelligence and Compliance Analytics Using Big Data	3

CSC X 409	Penetration Testing and Vulnerability Assessment	3
CSC X 410	legal Issues in Information Assurance	3
CSC X 411	Secure Electronic Commerce	3
CSC X 412	Cloud Security	3
CSC X 306	Block Chain & Crypto currency Technology	3
CSC X 307	Security in Industry 4.0	3
CSC X 308	Security Governance, Risk and compliance	3
CSC X 309	Operating System Security	3
CSC X 310	Android Security	3
CSC X 311	Security in Smart devices	3
CSC X 312	Cognitive Psychology in Cyber Security	3

The syllabi of the elective courses of B.Tech. (Artificial Intelligence and Data Science) and B.Tech. CSE (Cyber Security) under R 2017 are given in [Annexure 18.14.2\(a\) & 18.14.2\(b\)](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 18.14.3

To consider and approve the syllabi (II semester) of M.Tech. (Artificial Intelligence and Data Science) under Regulations 2019.

Note on Agenda:

The curriculum and syllabi of I semester M.Tech. (Artificial Intelligence and Data Science) was approved in the 17th meeting of Academic Council and accordingly implemented from the year AY 2021-2022.

In the 19th meeting of Board of Studies of Department of Computer Science & Engineering which was held on 28-12-2021, the syllabi of II semester courses of M.Tech. (Artificial Intelligence and Data Science) were deliberated. After deliberations the board has recommended the same for approval in the Academic Council.

The salient features of the M.Tech. (Artificial Intelligence and Data Science) curriculum under R 2019 are as follows:

I. Semester I & II (AY 2021-22)

a) New Courses introduced:

S.No.	Course Code	CourseTitle	Credit
1.	CSD 6121	Advanced Data Structures	3
2.	CSD 6122	Artificial Intelligence in Data Mining	4
3.	CSD 6123	Essentials of Artificial Intelligence and Machine Learning	3
4.	CSD 6144	Data Science Foundations using R	4
5.	CSD 6221	Natural Language Processing	3
6.	CSD 6222	Deep Learning	4
7.	CSDY 301	SQL for Data Science	3
8.	CSDY 303	Exploratory Data Analytics	3
9.	CSDY 351	Business Intelligence	3
10.	CSDY 306	Soft Computing Techniques	3
11.	CSDY 307	Artificial Neural Networks	3
12.	CSDY 308	Knowledge Engineering and Expert Systems	3
13.	CSDY 309	Scripting languages	3
14.	CSDY 310	Distributed, Parallel and Spatial Databases	3
15.	CSDY 311	Data Visualization	3
16.	CSDY 353	Optimization methods for Analytics	3
17.	CSDY 354	Knowledge Representation and Reasoning	3
18.	CSDY 355	Data Science with Bio Informatics	3
19.	CSDY 359	Web Analytics	3

The curriculum and syllabi of M.Tech. (Artificial Intelligence and Data Science) under R 2019 are given in [Annexure 18.14.3](#).

The Academic Council may consider and approve the same for implementation from the academic year 2021-22.

Resolution:

After deliberations, the agenda item was approved.

Item 18.14.4

To consider and approve the syllabi of the elective courses offered to B.Tech. EEE under Regulations 2021.

Note on Agenda:

The syllabi of elective courses offered to B.Tech. EEE under R2021 were deliberated in the 19th meeting of Board of Studies of Department of Computer Science & Engineering held on 28-12-2021. After deliberations, the board has recommended the same for approval in the Academic Council.

B.Tech. EEE R2021 - Elective Courses

- i CSDX 81 – Introduction to Cloud Computing
- ii CSDX 82 – Computer Hardware and Interfacing
- iii CSDX 83 – Computer Networks
- iv CSDX 84 – Fundamentals of Data Structures
- v CSDX 85 – Java Programming

The syllabi of elective courses offered to B.Tech. EEE under R 2021 are given in [Annexure 18.14.4](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 18.14.5

To consider and approve the syllabi of the courses offered to B.Tech. EIE under Regulations 2021.

Note on Agenda:

The syllabi of courses offered to B.Tech. EIE under R2021 were deliberated in the 19th meeting of Board of Studies of Department of Computer Science & Engineering held on 28-12-2021. After deliberations, the board has recommended the same for approval in the Academic Council.

B.Tech. EIE R2021 - Elective Course

- i EID 2204 - Python for Instrumentation Engineers
- ii EID X62 - R Programming

The syllabi of elective courses offered to B.Tech. EIE under R 2021 are given in

Annexure 18.14.5

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

DEPARTMENT OF INFORMATION TECHNOLOGY

Item 18.15

To consider and approve the recommendations of the Board of Studies of the Department of Information Technology.

Item 18.15.1

To consider and approve the syllabi (III & IV semester) of B.Tech. Information Technology under Regulations 2021.

Note on Agenda:

The major revision in curriculum of B.Tech. Information Technology under R 2021 & Syllabi of I & II Semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the AY 2021-2022.

In the 15th meeting of Board of Studies of Department of Information Technology which was held on 16.12.2021, the syllabi of III & IV Semester Courses were deliberated. After deliberations the board has recommended the same for approval in the Academic Council.

The salient features of the B.Tech. Information Technology curriculum under R 2021 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I & II (AY 2021-22)

a) New Courses introduced:

Course Code	Course Title	Credits
ITD 1201	Programming in C++	3

II. Semester III & IV (AY 2022-23)

a) New Courses Proposed:

Course Code	Course Title	Credits
ITD 2104	Data Structures and Algorithms	3

ITD 2106	Data Structures and Algorithms Lab	1
ITD 2201	Programming in Java	3
ITDX 03	Principles of Programming Languages	3
ITDX 04	Graphics and Multimedia	3
ITDX 05	Human Computer Interaction	3

b) Courses with Syllabus Revision (Proposed):

Course Code	Course Title	Credits	Revision (%)
ITD 2102	Programming in Python	3	20%
ITD 2103	Computer Architecture	3	20%
ITD 2105	Fundamentals of Web Designing	3	40%
ITD 2202	Database Management System	4	20%
ITD 2203	Computer Networks	4	20%
ITD 2204	Software Engineering	3	24%
ITD 2205	Operating Systems	4	20%
ITDX 02	Android Application Development	3	40%
ITDX 26	Principles of Communication	3	20%

The curriculum and syllabi of the courses (III & IV Semester) of B.Tech. IT under R 2021 are given in [Annexure 18.15.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

DEPARTMENT OF COMPUTER APPLICATIONS

Item 18.16

To consider and approve the recommendations of the Board of Studies of the Department of Computer Applications.

Item 18.16.1

To consider and approve the revised curriculum and syllabi (III & IV semester) of BCA under Regulations 2021.

Note on Agenda:

The major revision in curriculum of BCA under Regulation 2021 and syllabi of I & II semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the academic year 2021-2022.

In the 16th meeting of Board of Studies of the Department of Computer Applications, which was held on 23rd December 2021, revision in curriculum and the syllabi of III and IV semester courses were deliberated. After deliberations, the board has recommended the same for approval in the Academic Council.

In the curriculum, under IV Semester technology elective courses, the course 'CADX 204 – Web Design and Development' was replaced by the course 'Web Technology'.

Based on industry needs, we are replacing the following course:

CADX 204 - Web Design and Development

CADX 208 - Web Design Laboratory in semester IV of BCA

As New Course:

CADX 204 - Web Technology

CADX 208 - Web Technology Laboratory in semester IV of BCA

The introduction of new specializations viz. (i) Cyber security and (ii) Artificial Intelligence in the BCA under R 2021 was also deliberated and approved by the board of studies.

The salient features of the BCA curriculum under R 2021 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I and II (AY 2021-2022)

a) Courses with Syllabus Revision:

Course Code	Course Title	Credits	Revision (%)
Core Courses			
CAD 1101	Computer Fundamentals and Organization	3	40%
CAD 1102	Programming in C	3	30%
CAD 1103	Data Structures	3	20%
CAD 1201	OOPS with C++	3	30%
CAD1202	Operating Systems	3	40%
Laboratory Courses			
CAD 1104	Programming in C Laboratory	2	30%

CAD 1105	Data Structures Laboratory	2	40%
CAD 1203	OOPS with C++ Laboratory	2	40%
CAD 1204	Linux Laboratory	2	40%

II. Semester III and IV (AY 2022-2023)

a) New courses Proposed:

Course Code	Course Title	Credits
CAD 2101	Design and Analysis of Algorithms	3
CADX 202	Business Intelligence	3
CADX 214	Exploratory Data Analytics	3
CADX 204	Web Technology	3
CADX 251	Information Retrieval	3
CADX 252	Social Media Analysis	3
CADX 253	Online Advertisement	3
CADX 254	PHP Programming	3
GEDX 311	Customer Relationship Management Analytics	3
CADX 208	Web Technology Laboratory	2

b) Courses with syllabus revision (Proposed):

Course Code	Course Title	Credits	Revision (%)
Core courses			
CAD 2102	Software Engineering	3	20%
CAD 2103	Relational Data base Management Systems	3	20%
CAD 2104	Computer Networks	3	30%
CAD 2105	Programming in Java	3	40%
CAD2201	Python Programming	3	40%
CADX103	Introduction to Data Science	3	30%
CADX101	Introduction to Cloud Technology	3	30%

CADX 201	Fundamentals of Data center	3	20%
CADX 203	Information Security Fundamentals	3	20%
Laboratory Courses			
CAD 2106	Relational Data base Management Systems Laboratory	2	20%
CAD2107	Programming in JAVA Laboratory	2	30%
CAD 2203	Python Programming Laboratory	2	70%
CADX 211	Big Data Analytics Laboratory	2	30%
CADX 209	Server Operating System Laboratory	2	10%

The revised curriculum and syllabi of the courses (III and IV Semester) of BCA under R 2021 are given in [Annexure 18.16.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 18.16.2

To consider and approve the Syllabi of (III and IV semester) of B.Sc. (Computer Science) under Regulations 2021.

Note on Agenda:

The major revision in curriculum of B.Sc. (Computer Science) under Regulation 2021 and syllabi of I and II semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the academic year 2021-2022.

In the 16th meeting of Board of Studies of Department of Computer Applications, which was held on 23rd December 2021, the syllabi of III and IV semester courses were deliberated. After deliberations, the board has recommended the same for approval in the Academic Council.

The salient features of the B.Sc. (Computer Science) curriculum under R 2021 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I & II (AY 2021- 2022)

a) Courses with Syllabus Revision

Course Code	Course Title	Credits	Revision (%)
Core Courses			
CAD1101	Computer Fundamentals and Organization	3	40%
CAD1102	Programming in C	3	30%
CAD1103	Data Structures	3	20%
CAD1201	OOPS with C++	3	30%
CAD1202	Operating Systems	3	40%
Laboratory Courses			
CAD1104	Programming in C Laboratory	2	30%
CAD1105	Data Structures Laboratory	2	40%
CAD1203	OOPS With C++ laboratory	2	40%
CAD1204	Linux Laboratory	2	40%

II. Semester III & IV (AY 2022- 2023)

a) New courses Proposed:

Course Code	Course Title	Credits
Core Courses		
CAD2103	Design and Analysis of Algorithms	3
CAD2108	Digital Marketing	3
Elective Courses		
CADX251	Information Retrieval	3
CADX252	Social Media Analysis	3
CAD253	Online Advertising	3
CAD254	PHP Programming	3
GEDX311	Customer Relationship Management Analytics	3

b) Courses with Syllabus Revision (Proposed):

Course Code	Course Title	Credits	Revision (%)
Core Courses			
CAD2102	Software Engineering	3	20%
CAD2103	Relational Data base Management Systems	3	20%
CAD2104	Computer Networks	3	30%

CAD2105	Programming in JAVA	3	40%
CAD2201	Python Programming	3	40%
CAD2204	Web Design and Development	3	30%
CAD2205	Data mining and Data Warehousing	3	30%
CAD2206	Object Oriented Analysis and Design	3	20%
Laboratory Courses			
CAD2106	Relational Data base Management Systems Laboratory	2	20%
CAD2107	Programming in JAVA Laboratory	2	30%
CAD2203	Python Programming Laboratory	2	70%
CAD2207	Web Design Laboratory	2	30%

The curriculum and syllabi of the courses (III and IV Semester) of B.Sc. (Computer Science) under R 2021 are given in [Annexure 18.16.2](#). The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 18.16.3

To consider and approve the revised curriculum and syllabi of elective courses in the MCA Programme under Regulations 2019.

Note on Agenda:

Based on the alumni, stakeholders, parents feedback, the courses 'Cyber Security' and 'Full Stack Development' are updated in the elective list of MCA curriculum framework under Regulations 2019 as follows:

Course Code	Course Title	Credits
CADY 255	Cyber Security	3
CADY 371	Full Stack Development	3

Based on feedback from faculty and students, the following elective courses were removed from the curriculum.

Course Code	Course Title	Credits
CADY 351	Mobile Commerce	3

CADY 354	Principles of Virtualization	3
CADY 355	Cloud Architectures	3
CADY 356	Cloud Storage Infrastructures	3
CADY 359	Semantic Web	3
CADY 362	Web Mining	3
CADY 363	Data Mining and Data Warehousing	3
CADY 365	Social Media Analytics	3
CADY 366	Health Care Analytics	3
CADY 368	Decision Support System	3
CADY 369	Predictive Analysis	3
CADY 370	Internet of Things	3

These revisions were discussed in the Board of Studies of the Department of Computer Applications and the board has recommended the same for approval. The revised curriculum framework and syllabi is enclosed in [Annexure 18.16.3](#).

The Academic Council may consider and approve the same with effect from academic year 2021-22.

Resolution:

After deliberations, the agenda item was approved.

DEPARTMENT OF MATHEMATICS AND ACTUARIAL SCIENCES

Item 18.17

To consider and approve the recommendations of the board of studies of the Department of Mathematics & Actuarial Sciences

Item No. 18.17.1

To consider and approve the introduction of new courses and revision of courses to be offered to Ph.D scholars of the Department of Mathematics & Actuarial Sciences

Note on Agenda:

In the 13th meeting of Board of Studies of Department of Mathematics & Actuarial Sciences the introduction of new courses and revision in courses as follows were deliberated in detail, in order to facilitate Ph.D scholars to pursue these courses. After deliberations, the board has recommended the same for approval in the Academic Council.

a) Details of new courses:

Course Code	Course Name	Credit
MADZ 01	Fundamentals of Chemical Graph Theory	4
MADZ 02	Mathematical Modeling: Analysis and Applications	4
MADZ 03	Fractional Calculus and Fractional Differential Equations	4

b) Details of Courses with syllabus revision:

Course Code	Course Name	Credits	Revision (%)
MADZ 04	Advanced Numerical Analysis	4	20%
MADZ 05	Bio Statistics	4	30%
MADZ 06	Mathematical Logic	4	20%
MADZ 07	Advanced Analysis	4	20%
MADZ 08	Geometric Function Theory	4	20%
MADZ 09	Graph Theory	4	20%
MADZ 10	Fuzzy Mathematics	4	30%
MADZ 11	Operations Research	4	30%
MADZ 12	Mathematical Elements for Computer Graphics	4	20%
MADZ 13	Mathematical Modeling and Simulation	4	20%
MADZ 14	Neural Networks	4	20%
MADZ 15	Financial Mathematics	4	20%
MADZ 16	Computer Algorithms	4	20%

The syllabi of the above courses are given in [Annexure 18.17.1](#).

The Academic Council may consider and approve the same.

Resolution:

After deliberations, the agenda item was approved.

SCHOOL OF LIFE SCIENCES

Item No. 18.18

To consider and approve the recommendations of the Board of Studies of the School of Life Sciences.

Item No. 18.18.1

To consider and approve the syllabi (III to VIII semester) of B.Tech. Biotechnology under Regulations 2021.

Note on Agenda:

The major revision in curriculum of B.Tech. Biotechnology under R 2021 & Syllabi of I & II Semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the year AY 2021-2022.

In the 8th meeting of Board of Studies of School of Life Sciences which was held on 05 July 2021, the syllabi of III to VIII Semester Courses were deliberated. After deliberations, the board has recommended the same for approval in the Academic Council.

The salient features of the B.Tech. Biotechnology curriculum under R 2021 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I & II (AY 2021-22)

a) New Courses introduced:

Course Code	Course Name	Credits
MAD 1182	Biomathematics	4
BTD 1204	Yoga and alternative medicine	1
GED 1203	Basic Electrical Engineering	4

b) Courses with Syllabus revision:

Course Code	Course Name	Credits	Revision (%)
BTD1203	Microbiology	3	20%

II. Semester III and IV (AY 2022-23)

a) New Courses Proposed:

Course Code	Course Name	Credits
BTD 2105	Technical Seminar	2
BTD 2202	Green Biotechnology and Pollution Abatement	2
BTD 2205	Bioinformatics and Chemoinformatics	4
BTD 2205	Project Based Learning and Comprehensive viva voice	1
BTDX 03	Big Data Analytics	3

b) Courses with syllabus revision (Proposed):

Course Code	Course Name	Credits	Revision (%)
BTD2103	Fundamentals of Chemical Engineering	4	20%
BTD2203	Immunotechnology	4	20%
BTD2201	Plant and Animal Biotechnology	4	20%
BTD 2204	Recombinant DNA Technology	3	20%
BTD2101	Biophysics	4	20%
BTD2104	Analytical Techniques	4	20%
BTDX01	Structural Biology	3	20%
BTDX02	Bio-Organic Chemistry	3	20%
BTDX04	Medical Biotechnology	3	20%

III. Semester V & VI (AY 2023-24)

a) New Courses Proposed:

Course Code	Course Name	Credits
BTD 3101	Good Manufacturing and Laboratory Practice	3
BTD 3203	Fermentation Technology and Bioreactor Design	4
BTDX 12	Genome Editing	3
BTDX 13	Biosimilars Technology	3
BTDX 14	Machine Learning	3
BTDX 33	Molecular and Cellular Diagnostics	3
BTDX 35	Artificial Intelligence for Biotechnology	3
BTDX 36	Waste Management and Upcycling	3
BTDX 38	Gene Expression and Transgenics	3

b) Courses with syllabus revision (Proposed):

Course Code	Course Name	Credits	Revision (%)
BTD3102	Bioprocess Engineering	4	20%
BTD 3201	Nanobiotechnology	3	20%
BTD3202	Food Biotechnology	3	20%
BTDX11	Cancer Biology	3	20%

BTDX15	Developmental Biology	3	20%
BTDX16	Tissue Engineering	3	20%
BTDX17	Drug Design and Development	3	20%
BTDX18	Biosafety and Bioethics	3	20%
BTDX31	Intellectual Property Rights	3	20%
BTDX32	Pharmaceutical Biotechnology	3	20%
BTDX33	Molecular & Cellular Diagnostics	3	20%
BTDX34	Molecular Pathology	3	20%
BTDX37	Stem Cells Technology	3	20%

IV. Semester VII & VIII (AY 2024-25)

a) New Courses Proposed:

Course Code	Course Name	Credits
BTD 4101	Data Analysis and Simulations	3
BTD 4102	Internship II	1
BTDX 60	Rational Drug Discovery	3
BTDX 61	State-of-the-art Imaging	3
BTDX 62	Precision Medicine and Wellness	3
BTDX 68	Material science	3
BTDX 73	Vaccine Technology	3
BTDX 74	Drug Formulation and Drug Delivery	3
BTDX 75	Regulatory Affairs for Biotechnology	3

b) Courses with syllabus revision (Proposed):

Course Code	Course Name	Credit	Revision (%)
BTDX63	Industrial Biotechnology	3	20%
BTDX64	Bioseparation Technology	3	20%
BTDX65	Proteomics & Genomics	3	20%
BTDX66	Biomedical Instrumentation	3	20%
BTDX68	Material science	3	20%
BTDX69	Biomedical Engineering	3	20%
BTDX70	Healthcare Biotechnology	3	20%
BTDX71	Molecular Farming	3	20%

BTDX72	Transport phenomena in Bioprocess	3	20%
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The curriculum and syllabi of the courses (III to VIII Semester) of B.Tech. Biotechnology under R 2021 are given in [Annexure 18.18.1](#)

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item No.18.18.2

To consider and approve the syllabi (III to VI semester) of B.Sc. Biotechnology under Regulations 2021.

Note on Agenda:

The major revision in curriculum of B.Sc. Biotechnology under R 2021 & Syllabi of I & II Semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the AY 2021-2022.

In the 8th meeting of Board of Studies of School of Life Sciences, which was held on 05 July 2021, the syllabi of III to VI Semester Courses were deliberated. After deliberations the board has recommended the same for approval in the Academic Council.

The salient features of the B.Sc. Biotechnology curriculum under R 2021 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I & II (AY 2021-22)

a) New Courses introduced:

Course Code	Course Name	Credits
LSD 1201	Biomolecules	4
LSD 1202	Biomolecules Laboratory	2
LSD 1204	Basics of Genetics Laboratory	2
LSDX 003	Environmental Biotechnology	4
LSDX 004	Environmental Biotechnology Laboratory	2
LSDX 005	Pharmacology	4
LSDX 006	Pharmacology Laboratory	2
LSDX 007	Biopharmaceutics and Pharmacokinetics	4
LSDX 008	Biopharmaceutics and Pharmacokinetics Laboratory	2

LSDX 009	Waste Management	4
LSDX 010	Waste Management Laboratory	2
LSDX 012	Herbal Technology Laboratory	2

b) Courses with syllabus revision:

Course Code	Course Name	Credits	Revision (%)
LSD 1101	Cell Biology	4	20%
LSD 1102	Cell Biology Laboratory	2	20%
LSD 1103	Microbiology	4	20%
LSD 1104	Microbiology Laboratory	2	20%
LSD 1203	Basics of Genetics	4	20%

II. Semester III and IV (AY 2022-23)

a) New Courses Proposed:

Course Code	Course Name	Credits
LSD 2106	Enzymology Laboratory	2
LSD 2104	Molecular Biology Laboratory	2
LSD 2204	Medical Biotechnology Laboratory	2
LSDX 014	Biostatistics and experimental designing Laboratory	2
LSDX 016	Bioinstrumentation Laboratory	2
LSDX 017	Phytochemistry	4
LSDX 018	Phytochemistry Laboratory	2
LSDX 019	Artificial Intelligence in Medicine	4
LSDX 020	Artificial Intelligence Laboratory	2
LSDX 021	Intellectual Property Rights	4
LSDX 022	Patent drafting and application Laboratory	2
LSDX 023	Bioentrepreneurship	4
LSDX 024	Bioentrepreneurship Laboratory	2

b) Courses with syllabus revision (Proposed):

Course Code	Course Name	Credits	Revision (%)
LSD 2101	Biochemistry	4	20%
LSD 2102	Biochemistry Laboratory	2	20%
LSD 2103	Molecular Biology	4	20%

LSD 2105	Enzymology	4	20%
LSD 2201	Bioprocess Technology	4	20%
LSD 2202	Bioprocess Technology Laboratory	2	20%
LSD 2203	Medical Biotechnology	4	20%
LSD 2205	Bioinformatics	4	20%
LSD 2206	Bioinformatics Laboratory	2	20%

III. Semester V & VI (AY 2023-24)

a) New Courses Proposed:

Course Code	Course Name	Credits
LSDX 052	Disease Management Laboratory	2
LSDX 054	Cytogenetics Laboratory	2
LSDX 056	Agricultural Biotechnology Laboratory	2
LSDX 058	Nanobiotechnology Laboratory	2
LSDX 059	Regenerative Medicine	4
LSDX 060	Regenerative Medicine Laboratory	2
LSDX 062	Cancer Biology Laboratory	2
LSDX 063	Developmental Biology	4
LSDX 064	Developmental Biology Laboratory	2
LSDX 066	Food Biotechnology Laboratory	2
LSDX 068	Biofertilizer Technology Laboratory	2
LSDX 069	Computer aided Drug Design	4
LSDX 070	Computer aided Drug Design Laboratory	2
LSDX 071	Biomass and Bioenergy	4
LSDX 072	Biomass and Bioenergy Laboratory	2
LSDX 074	rDNA Technology Laboratory	2
LSDX 076	Industrial Biotechnology Laboratory	2
LSDX 077	Molecular Farming	4
LSDX 078	Molecular Farming Laboratory	2
LSDX 080	Biophysics Laboratory	2
LSDX 081	Molecular Diagnostics	4
LSDX 082	Molecular Diagnostics Laboratory	2
LSDX 083	Downstream Process	4

LSDX 084	Downstream Process Laboratory	2
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b) Courses with syllabus revision (Proposed):

Course Code	Course Name	Credits	Revision (%)
LSD 3101	Plant Biotechnology	4	20%
LSD 3102	Plant Biotechnology Laboratory	2	20%
LSD 3103	Animal Biotechnology	4	20%
LSD 3104	Animal Biotechnology Laboratory	2	20%
LSD 3201	Immunotechnology	4	20%
LSD 3202	Immunotechnology Laboratory	2	20%
LSD 3203	Genomics and Proteomics	4	20%
LSD 3203	Genomics and Proteomics Laboratory	2	20%

The curriculum and syllabi of the courses (III to VI Semester) of B.Sc. Biotechnology under R 2021 are given in [Annexure 18.18.2](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item No. 18.18.3

To consider and approve the syllabi (III & IV semester) of M.Tech. Food Biotechnology under Regulations 2019.

Note on Agenda:

The major revision in curriculum of M.Tech. Food Biotechnology under R 2019 & Syllabi of I & II Semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the AY 2021-2022.

In the 8th meeting of Board of Studies of School of Life Sciences, which was held on 05 July 2021, the syllabi of III & IV Semester Courses were deliberated. After deliberations, the board has recommended the same for approval in the Academic Council.

The salient features of the M.Tech. Food Biotechnology curriculum under R 2019 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I & II (AY 2021-22)

a) New Courses introduced:

Course Code	Course Name	Credits
LTD 6111	Chemistry of Foods	4
LTD 6112	Modern Food Microbiology	4
LTD 6113	Advanced Nutritional Biochemistry	4
LTD 6114	Modern Food Processing Techniques	3
LTD 6101	Applied Biostatistics for Biotechnologists	3
LTD 6211	Technology in Food Packaging	4
LTD 6212	Applied Food Biotechnology	4
LTD 6213	Research Methodology	4
LTDY 051	Aromatic and Medicinal Plants	3
LTDY 052	Sanitation and Waste Management in Food Industries	3
LTDY 053	Functional Foods and Nutraceuticals	3
LTDY 054	Applications of Enzymes in Food Industry	3
LTDY 055	Quality Evaluation of Foods	3
LTDY 056	Food Standards & Quality Control	3
LTDY 057	Management of Halal Food	3
LTDY 081	Flavour Processing Technology	3
LTDY 082	Meat Process Technology	3
LTDY 083	Marine Food Process Technology	3
LTDY 084	Food Informatics	3
LTDY 085	Post - Harvest Technology of Fruits and Vegetables	3

II. Semester III & IV (AY 2022-23)

a) New Courses Proposed:

Course Code	Course Name	Credits
LTD 7111	Internship	1

LTD 7112	Project Work (Phase I)	6
LTD 7121	Project Work (Phase II)	18
LTDY 086	Dairy Technology	3
LTDY 087	Food Nutrigenomics	3
LTDY 088	Food Product Design and Development	3
LTDY 089	Food Regulatory Affairs and Food Certification	3
LTDY 090	Global Food Marketing Development & Aid Policy	3
LTDY 091	Food Safety Assessment	3

The curriculum and syllabi of the courses (III to IV Semester) of M.Tech. Food Biotechnology under R 2019 are given in [Annexure 18.18.3](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

CRESCENT SCHOOL OF BUSINESS
DEPARTMENT OF MANAGEMENT STUDIES

Item No. 18.19

To consider and approve the recommendations of the board of studies of the Crescent School of Business

Item No. 18.19.1

To consider and approve the syllabi of (III & IV semester) of MBA under Regulations 2021

Note on Agenda:

The major revision in the curriculum of MBA under R 2021 & syllabi of I & II semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the AY 2021-2022.

In the 12th meeting of Board of Studies of Crescent School of Business, which was held on 28th January 2022, the syllabi of III & IV semester courses were deliberated. After deliberations, the board has recommended the same for approval in the Academic Council.

The salient features of the MBA curriculum under R 2021 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I & II (AY 2021-22)

a) New Courses introduced:

Course Code	Course Name	Credit
MSE 6103	Statistics for Decision Making	4
MSE 6108	Computer Applications in Business Lab	1
MSE 6109	Business Communication Lab	1
MSE 6203	Corporate Finance	4
MSE 6204	Operations Management	4

b) Courses with Syllabus revision:

Course Code	Course Name	Credits	Revision (%)
MSE 6104	Accounting for Managers	4	80%
MSE 6204	Operations Management	4	80%

II. Semester III & IV (AY 2022-23)

a) New Courses (Proposed):

Course Code	Course Name	Credit
MSE 7101	Managing Disruptive Technologies	4
MSEY 016	Behavioural and Personal Finance	4
MSEY 018	Financial Management	4
MSEY 064	Materials Management	4
MSEY 069	Applied Operations Research	4
MSEY 086	Managing Family Business	4
MSEY 131	Fundamentals of Banking	4
MSEY 132	Legal Aspects of Banking	4
MSEY 133	Risk Management in Banks	4
MSEY 134	Retail Banking	4
MSEY 135	Treasury and Derivative Management	4
MSEY 136	International Banking and Forex Management	4
GEEY 127	Food and Agri Tech Business	4
GEEY 130	NGO Management	4

b) Courses with Syllabus revision (Proposed):

Course Code	Course Name	Credits	Revision (%)
MSEY 019	Financial Markets and Services	4	90%
MSEY 020	Financial Technology	4	70%
MSEY 036	Strategic Human Resource Management	4	60%
MSEY 061	Supply Chain Management	4	80%
MSEY 121	R Programming for Business Research Analytics	4	60%
MSEY 122	Python Programming	4	50%
MSEY 123	Data Visualization	4	90%
MSEY 141	Design Thinking and Innovation	2	90%
MSEY 142	Strategic Leadership and Governance	2	90%
MSEY 143	Sustainability Management	2	90%
MSEY 144	Balanced Score Card	2	90%
GEEY 128	Research Methodology and Data Analysis	4	70%
GEEY 129	Business Analytics	4	40%
GEEY 131	Management of Rural Business	4	60%

The curriculum and syllabi of the courses (III & IV Semester) of MBA under R 2021 are given in [Annexure 18.19.1](#)

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item No. 18.19.2

To consider and approve the syllabi (II semester) of MBA IEV under Regulations 2021

Note on Agenda:

The new curriculum of MBA IEV under R 2021 and syllabi of I semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the AY 2021-2022.

In the 12th meeting of Board of Studies of Crescent School of Business, which was held on 28th January 2022, the syllabi of II semester courses were deliberated. After deliberations, the board has recommended the same for approval in the Academic Council.

The salient features of the MBA curriculum (I & II Semesters) under R 2021 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I & II MBA IEV (AY 2021-22)

a) New Courses introduced:

Course Code	Course Name	Credit
IEV 6101	Entrepreneurial & Managerial Thinking	4
IEV 6102	Entrepreneurial Eco System	3
IEV 6103	Innovation Management & Design Thinking	4
IEV 6104	Economic Perspectives for entrepreneurs	3
IEV 6105	Research orientation	2
IEV 6106	Creating Business Values	2
IEV 6107	Skill Certification	3
IEV 6108	Idea Generation and Proof of concept	3
IEV 6201	Feasibility Analysis	4
IEV 6202	Essentials of Business Plan	2
IEV 6203	Business Plan validation	2
IEV 6204	Skill Certification	4
IEV 6205	Action Based Learning	14
IEV 6206	Formulation of business plan and development of proto type	3

The curriculum and syllabi of the courses (II Semester) of MBA IEV under R 2021 are given in [Annexure 18.19.2](#).

The Academic Council may consider and approve the same for implementation from the academic year 2021-22.

Resolution:

After deliberations, the agenda item was approved.

Item No. 18.19.3

To consider and approve the syllabus of the courses 'Advanced Statistical Techniques' and 'Electronic Human Resource Management' to offer to Ph.D Scholars.

Note on Agenda:

The syllabus of the courses 'Advanced Statistical Techniques' and 'Electronic Human Resource Management' were deliberated in the 12th meeting Board of Studies of Dept. of Management Studies to offer the same to Ph.D. Scholars. After deliberations, the board has recommended the same for approval in the Academic Council.

S. No.	Course Code	Course Name	Credit
1	GEEY 136	Advanced Statistical Techniques	4
2	MSEY 039	Electronic Human Resource Management	4

The syllabus of the course 'Advanced Statistical Techniques' and 'Electronic Human Resource Management' are given in [Annexure 18.19.3](#).

The Academic Council may consider and approve the same.

Resolution:

After deliberations, the agenda item was approved.

CRESCENT SCHOOL OF PHARMACY

Item No. 18.20

To consider and approve the recommendations of the Board of Studies of Crescent school of pharmacy.

Item No. 18.20.1

To consider and approve the revision in curriculum and syllabi of B.Pharm. under regulations 2014.

Note on Agenda:

The PCI facilitated students of B.Pharm. to pursue one elective course from the skill packs/modules of Life Sciences Sector and Skill Development Council vide notification Ref.No;14-260/2014-PCI/4486 dt.30/09/2020 aliter to elective courses prescribed by PCI under Regulations 2014.

The following are the details of new elective courses introduced in the B.Pharm. under Regulations 2014.

Course Code	Course Title	Credits
LFS/Q1201	Production/Manufacturing Chemist-Life Sciences	4
LFS/Q1301	Quality Control Chemist	4
LFS/Q0302	Quality Assurance Chemist	4

LFS/Q0401,v 1.0	Medical Sales Representative	4
LFS/Q0401,v 2.0	Medical Sales Representative_v2	4
LFS/Q0501	Drug Regulatory Affairs Chemist	4
LFS/Q0503	Clinical Research Associate	4

The syllabi of above courses were deliberated in the 8th meeting of Board of Studies of Crescent School of Pharmacy, held on 06.12.2021. After deliberations the Board has recommended the same for approval in the Academic council.

The revised curriculum of B.Pharm and syllabi of newly introduced elective courses are given in [Annexure 18.20.1](#).

The Academic Council may consider and approve the same.

Resolution:

After deliberations, the agenda item was approved.

Item No. 18.20.2

To consider and approve the syllabi of courses MPH101T - Modern Pharmaceutical Analytical Techniques and MPL202T-Pharmacological and Toxicological Screening Methods to offer Ph.D. Scholars of Crescent School of Pharmacy.

Note on Agenda:

Crescent School of Pharmacy is offering Ph.D. programme from the academic year 2020-2021 onwards. To cater the needs of the Ph.D. scholars the following courses are offered by Crescent School of Pharmacy.

Course code	Course Title	Credits
MPH101T	Modern Pharmaceutical Analytical Techniques	4
MPL202T	Pharmacological and Toxicological Screening Methods	4

The syllabi of these courses were deliberated in the Board of Studies and the same is recommended for approval in Academic Council. The syllabi of courses, MPH101T-Modern Pharmaceutical Analytical Techniques and MPL202T-Pharmacological and Toxicological Screening Methods are given in [Annexure 18.20.2](#).

The Academic Council may consider and approve the same.

Resolution:

After deliberations, the agenda item was approved.

CRESCENT SCHOOL OF LAW

Item No. 18.21

To consider and approve the recommendations of the Board of Studies of Crescent School of law.

Item No. 18.21.1

To consider and ratify the syllabi of IX and X Semester of B.B.A. LL.B. (Hons.) and B.Com LL.B. (Hons.) under Regulations 2017.

Note on Agenda:

In the 8th meeting of Board of Studies of Crescent School of Law, which was held on 08th January 2022, the syllabi of IX and X Semester courses were deliberated. After deliberations, the board has recommended the same for ratification in the Academic Council.

The salient features of the syllabi of B.B.A LL.B. (Hons.) and B.Com LL.B. (Hons.) are as follows:

I. Semester IX (AY 2021 – 2022)

a) New Courses Introduced

Course Code	Course title	Credits
BLC 5101	Interpretation of statutes – honours	5
BLC 5102	Child law – honours	5
BLC 5103	Land law – honours	5
BLC 5104	Alternative dispute resolution – cc4	4
BLCX021	Women and law – elective	4
BLCX 022	Criminology, penology and victimology- elective	4
BLCX 023	Private international law	4
BLCX 024	Humanitarian and refugee law	4

II. Semester X (AY 2021 – 2022)

a) New Courses introduced:

Course Code	Course title	Credits
BLC 5201	Taxation law	5
BLC 5202	Competition law – honours vii	5
BLC 5203	Insurance law – honours viii	5
BLC 5204	Cyber laws	5
BLC 5205	Moot court – clinical course 5	5

The curriculum and syllabi of IX and X Semester courses are given in [Annexure 18.21.1 \(a\)&18.21.1\(b\)](#).

The Academic Council may consider and ratify the same with effect from the Academic Year 2021-22.

Resolution:

After deliberations, the agenda item was ratified with effect from the Academic Year 2021-22.

Item No. 18.21.2

To consider and ratify the syllabi of V Semester of B.B.A LL.B. (Hons.) and B.A LL.B. (Hons.) courses under Regulations 2019.

Note on Agenda

In the 8th meeting of Board of Studies of Crescent School of Law, which was held on 08th January 2022, the syllabi of V Semester courses offered to B.B.A LL.B. (Hons.) and B.A LL.B. (Hons.) under Regulations 2019 were deliberated. After deliberations, the board has recommended the same for ratification in the Academic Council.

The salient features of the V Semester syllabi of B.B.A LL.B. (Hons.) and B.A LL.B. (Hons.) courses under Regulations 2019 are as follows:

I. Semester V – B.B.A LL.B. (Hons.) (AY 2021 – 2022)

a) New Courses Introduced

Course Code	Course title	Credits
BLD 3102	Human rights – honours i	5
BLD 3103	Property law	5
BLD 3104	Company law	5
BLD 3105	Financial management	5
BLD 3106	Production and material management	5

b) Courses with syllabus revision

Course Code	Course Title	Credits	Revision (%)
BLD 3101	Labour Law I	5	30%

II. Semester V – B.A LL.B. (Hons.) (AY 2021 – 2022)

a) New Courses introduced

Course Code	Course title	Credits
BLD 3102	Human rights – honours I	5
BLD 3103	Property law	5
BLD 3104	Company law	5
BLD 3107	Social welfare administration	5
BLD 3108	E – governance	4

b) Courses with syllabus revision

Course Code	Course Title	Credits	Revision (%)
BLD 3101	Labour Law I	5	30%

The curriculum and syllabi of the courses of V Semester of B.B.A LL.B. (Hons.) and B.A. LL.B. (Hons.) under Regulations 2019 are given in [Annexure 18.21.2 \(a\)&18.21.2\(b\)](#).

The Academic Council may consider and ratify the same with effect from the Academic Year 2021-22.

Resolution:

After deliberations, the agenda item was ratified with effect from the Academic Year 2021-22.

Item No. 18.21.3

To consider and approve the syllabi of VI to X Semester of B.B.A LL.B. (Hons.) and B.A. LL.B. (Hons.) courses under Regulations 2019.

Note on Agenda

In the 8th meeting of Board of Studies of Crescent School of Law, which was held on 08th January 2022, the syllabi of VI to X Semester courses of B.B.A LL.B. (Hons.) and B.A. LL.B. (Hons.) under Regulations 2019 were deliberated. After deliberations, the board has recommended the same for approval in the Academic Council.

The salient features of the syllabi of VI to X semester courses of B.B.A LL.B. (Hons.) and B.A LL.B. (Hons.) under Regulations 2019 with respect to ‘Introduction of New Courses’ and ‘Courses with Syllabus Revision’ are as follows:

I. Semester VI – B.B.A LL.B. (Hons.) – (AY 2021 – 2022)

a) New Courses Introduced

Course Code	Course title	Credits
BLD 3202	Public international law	5

BLD 3203	Law of evidence	5
BLD 3204	Interpretation of statutes	5
BLD 3205	Public finance	5
BLD 3206	Strategic management	4

b) Course with syllabus revision

Course Code	Course Title	Credits	Revision(%)
BLD 3201	Labour Law II	5	30%

II. Semester VI – B.A. LL.B. (Hons.) (AY 2021 – 2022)

a) New Courses Introduced

Course Code	Course Title	Credits
BLD 3202	Public international law	5
BLD 3203	Law of evidence	5
BLD 3204	Interpretation of statutes	5
BLD 3207	Government administration in Tamilnadu	4
BLD 3208	Police administration	4

b) Course with syllabus revision

Course Code	Course Title	Credits	Revision(%)
BLD 3201	Labour Law II	5	30%

III. SEMESTER VII – B.B.A LL.B. (Hons.) – (AY 2022 – 2023)

a) New Courses Proposed:

Course Code	Course title	Credits
BLD 4101	Criminal procedure code I	4
BLD 4102	Civil procedure code II	4
BLD 4103	Drafting, pleading and conveyancing – CC1	5
BLD 4104	Quality management	5
BLDX 001	Right to information	4
BLDX 002	Health law	4
BLDX 003	Local self-government including panchayat administration	4
BLDX 004	Law on education	4

IV. SEMESTER VII – B.A. LL.B. (Hons.) – (AY 2022 – 2023)

a) New Courses Proposed

Course Code	Course Title	Credits
BLD 4101	Criminal Procedure Code I	4
BLD 4102	Civil procedure code I	4
BLD 4103	Drafting, pleading and conveyancing – cc1	5
BLD 4105	Public policy	5
BLDX 001	Right to information	4
BLDX 002	Health law	4
BLDX 003	Local self-government including panchayat administration	4
BLDX 004	Law on education	4

V. Semester VIII – B.B.A LL.B. (Hons.) & B.A. LL.B. (Hons) – (AY 2022 – 2023)

a) New Courses Proposed

Course Code	Course Title	Credits
BLD 4201	Criminal procedure code II	4
BLD 4202	Civil procedure code II	4
BLD 4203	Professional ethics – cc II	5
BLD 4204	Research methodology	4
BLDX 011	Maritime laws	4
BLDX 012	Media law	4
BLDX 013	Local laws	4
BLDX 014	Forensic laws	4

VI. Semester IX – B.B.A LL.B. (Hons.) & B.A. LL.B. (Hons.) – (AY 2023 – 2024)

a) New Courses Proposed

Course Code	Course Title	Credits
BLC 5101	Interpretation of statutes – honours	5
BLC 5102	Child law – honours	5
BLC 5103	Land law – honours	5
BLC 5104	Alternative dispute resolution – cc4	4
BLCX021	Women and law – elective	4

BLCX 022	Criminology, penology and victimology- elective	4
BLCX 023	Private international law	4
BLCX 024	Humanitarian and refugee law	4

b) Courses with syllabus revision (Proposed):

Course Code	Course Title	Credits	Revision (%)
BLCX021	Women and law – elective	4	20%
BLCX 022	Criminology, penology and victimology- elective	4	20%

VII. Semester X – B.B.A LL.B. (Hons.) and B.A. LL.B. (Hons.) – (AY 2023 – 2024)

a) New Courses proposed:

Course Code	Course Title	Credits
BLC 5201	Taxation law	5
BLC 5202	Competition law – honours vii	5
BLC 5203	Insurance law – honours viii	5
BLC 5204	Cyber laws	5
BLC 5205	Moot court – clinical course 5	5

The curriculum and syllabi of the courses from VI to X semester of B.B.A LL.B. (Hons.) and B.A. LL.B. (Hons.) under Regulations 2019 are given in [Annexure 18.21.3\(a\) & 18.21.3\(b\)](#).

The Academic Council may consider and approve the same for implementation from the even semester of Academic Year 2021-22.

Resolution:

After deliberations, the agenda item was approved for implementation from the even semester of Academic Year 2021-22.

SCHOOL OF ARABIC AND ISLAMIC STUDIES

Item No. 18.22

To consider and approve the recommendations of the Board of Studies of School of Arabic and Islamic Studies.

Item No. 18.22.1

To consider and approve the revised curriculum and syllabi (III, IV, V & VI semesters) of B.A. Islamic Studies (offered in English and Arabic Medium) under Regulations 2021.

Note on Agenda:

The major revision in curriculum of B.A. Islamic Studies offered in English and Arabic Medium) under R 2021 and Syllabi of I & II Semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the AY 2021-2022.

In the 13th meeting of Board of Studies of School of Arabic and Islamic Studies, which was held on 16th February 2022, renaming of few courses in the curriculum and the syllabi of III, IV, V & VI semester courses were deliberated. After deliberations, the board has recommended the same for approval in the Academic Council.

The salient features of the B.A. Islamic Studies revised curriculum under R 2021 with respect to 'Change in course name', 'Introduction of New core and electives courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I & II (AY 2021-22)

a) Change of course name

- 1) 'ISD 1101 Basic Arabic' has been renamed as 'ISD 1101 Basic Arabic Language'.
- 2) 'ISD 1121 Functional Arabic' has been renamed as 'ISD 1121 Functional Arabic Language'.
- 3) 'ISD 1211 Basic Communicative Arabic' has been renamed as 'ISD 1211 Basic Communicative Arabic Language'.
- 4) 'ISD 1221 Communicative Arabic' has been renamed as 'ISD 1221 Communicative Arabic Language'.

Note: Change of course names had been done without any syllabus alterations

b) New Courses & Electives introduced:

Course Code	Course Title	Credits
ISD 1104	Guidance of Prophet – Moral & Ethics	4
ISD 1105	Fiqh al Madhahib-Ibadath	4

c) Courses with Syllabus revision:

Course Code	Course Name	Credits	Revision (%)
ISD 1103	Introduction to Quranic Studies	4	20

ISD 1213	Quran Exegesis: Al-Baqara-II	4	35
ISD 1214	Hadeeth - Teachings of Prophet	4	20
ISD 1215	Islamic Doctrine – Aqeedah	2	20

II. Semester III and IV (AY 2022-23)

a) Change of course name

1. ISD 2101 Advanced Communicative Arabic has been renamed as ISD 2101 Advanced Communicative Arabic Language.
2. ISD 2121 Progressive Communicative Arabic has been renamed as ISD 2121 Progressive Communicative Arabic Language.
3. ISD 2211 Arabic Prose & Poetry has been renamed as ISD 2211 Arabic Language: Prose & Poetry.
4. ISD 2221 Advanced Arabic Prose & Poetry has been renamed as ISD 2221 Advanced Arabic Language: Prose & Poetry.

Note: Change of course names had been done without any syllabus alterations

b) New Courses & electives Proposed:

Course Code	Course Title	Credits
ISD X07	Art of Quran recitation and Memorization	2
ISD X09	Arabic Morphology	2
ISD X10	Fundamentals of Islamic Finance	3
ISD X12	Islamic Philosophy	3
	Soft Skills	1
	Advanced Soft Skills	1

c) Courses with Syllabus revision:

Course Code	Course Name	Credits	Revision (%)
ISD 2102	Quran Exegesis: Ala Imran & Al Nisa	4	35
ISD 2103	A Study on Abu Dawood	4	30
ISD 2106	Islamic History: Umayyad & Abbasids Period	3	25
ISD 2212	Quran Exegesis: Muminoon, Noor and Hujurat	4	25

III. Semester V & VI (AY 2023-24)

a) New Courses (Proposed):

Course Code	Course Title	Credits
ISD 3126	Advanced Business Arabic and Translation	3
ISD X10	Fundamentals of Islamic Finance	3
ISD X14	Islamic Capital Market	3

b) Courses with Syllabus revision:

Course Code	Course Name	Credits	Revision (%)
ISD 3105	History of Islamic Thought	3	30
ISD 3107	Indian Constitution: Minority Rights	1	25
ISD 3215	History of Modern Arabic Literature	3	30
ISD X13	Islamic Insurance (Takaful)	3	27
ISD X17	Arabic Translation & SAP	3	70

The revised curriculum and syllabi of the courses (III, IV, V and VI Semester) of B.A. Islamic Studies under R 2021 are given in [Annexure 18.22.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

SCHOOL OF SOCIAL SCIENCE AND HUMANITIES

Item 18.23

To consider and approve the recommendations of the Board of Studies of the School of Social Sciences and Humanities.

Item 18.23.1

To Consider and approve the revised syllabi of Humanities Electives courses offered by School of Social Sciences and Humanities to B.Tech Programmes on under R 2021.

Note on Agenda:

In the 4th meeting of Board of Studies of School of Social Sciences and Humanities, it was recommended to offer the following Humanities Electives courses (as 2 credit course) to B.Tech. Programme under R 2021 and accordingly approved in the 17th meeting of Academic Council held on 15-07-2021.

I. Humanities Elective – I (III Semester of B.Tech)

S.No	Course Code	Course Title	Credits
1	SSDX 01	Engineering Economics and Management	2
2	SSDX 02	Sociology of Science and Technology	2
3	SSDX 03	Industrial Economics and Management	2
4	SSDX 04	Dynamics of Indian Social Structure	2

II. Humanities Elective – II (VI Semester of B.Tech)

S.No	Course Title	Credits
1	Economics of Sustainable Development	2
2	Sociology of Industrial Relation	2
3	Professional Ethics and Human Values	2
4	Gender, Technology and Development	2

In the 5th meeting of Board of Studies of School of Social Sciences and Humanities, which was held on 29-12-2021, was deliberated to revise the syllabi of III semester Humanities Electives courses to 3 credit courses in-line with curriculum of B.Tech Programme under R 2021. After deliberations, these revisions were recommended for approval in the Academic Council.

S.No	Course Code	Course Title	Credits	Revision (%)
1	SSDX 01	Engineering Economics and Management	3	20%
2	SSDX 02	Sociology of Science and Technology	3	20%
3	SSDX 03	Industrial Economics and Management	3	20%
4	SSDX 04	Dynamics of Indian Social Structure	3	20%

The revised syllabi of Humanities Elective are given in [Annexure18.23.1](#). The

Academic Council may consider and approve the same.

Resolution:

After deliberations, the agenda item was approved.

Item 18.23.2

To consider and ratify the course ‘SSDZ 003 Contemporary Sociological Perspectives’ to offer to Ph.D. scholars.

Note on Agenda:

The School of Social Sciences and Humanities is offering Ph.D. programme from the academic year 2021-22. The syllabi of course ‘SSDZ 003 Contemporary Sociological Perspectives’ is deliberated in the 5th Board of Studies held on 29, December, 2021 to offer to Ph.D. scholars.

The syllabus of the course is given in [Annexure 18.23.2](#).

The Academic Council may consider and ratify the same for implementation from the academic year 2021-22.

Resolution:

After deliberations, the agenda item was ratified with effect from the academic year 2021-22.

DEPARTMENT OF ENGLISH

Item 18.24

To consider and approve the recommendations of the Board of Studies of the Department of English.

Item 18.24.1

To consider and approve the syllabi (III, IV, V & VI semesters) of B.A. English (Hons.) under Regulations 2021.

Note on Agenda:

The major revision in curriculum of B.A. English (Hons.) under R 2021 & the syllabi of I and II Semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the AY 2021-2022.

In the 14th meeting of Board of Studies of the Department of English which was held on 7th December 2021, the few modification in the curriculum and the syllabi of III, IV, V & VI Semester Courses were deliberated. After deliberations, the board has recommended the

same for approval in the Academic Council.

The salient features of B.A. English (Hons.) curriculum under R 2021 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I & II (AY 2021-22)

a) New courses introduced:

Course Code	Course Title	Credits
ENDX 51	Professional Ethics	4

b) Courses with Syllabus revision:

Course Code	Course Name	Credits	Revision (%)
END 1131	Social History of England	6	20%
END 1132	Introduction to English Language	6	20%
END 1133	British Literature: 14 th to 16 th Centuries	6	20%
END 1231	British Literature: 17 th Century	6	40%
END 1232	Indian Writing in English	6	90%
END 1233	American Literature	5	90%
ENDX 52	English for Communication Purposes	4	20%

II. Semester III & IV (AY 2022-23)

a) New Courses Proposed:

Course Code	Course Title	Credits
END 2132	Literary Criticism	6
END 2133	Women's writing	6
END 2232	Literary Theory	6
END 2233	South Asian Literature	6
ENDX 11	Literature of Indian Diaspora	4
ENDX 12	Literature &Adaption	4
ENDX 56	Academic Writing & Composition	4
ENDX 57	Virtual Communication	4

b) Courses with syllabus revision (Proposed):

Course Code	Course Name	Credits	Revision (%)
END 2131	British Literature: 18 th and 19 th Centuries	6	40%
END 2231	British Literature: 20 th Century	6	50%
ENDX 01	Travel Writing	4	90%
ENDX 02	Cultural Studies	4	20%
ENDX 03	Green Literature	4	20%
ENDX 04	Children's Literature	4	40%
ENDX 13	Introduction to Discourse Analysis	4	20%
ENDX 14	Linguistics	4	30%

III. Semester V & VI (AY 2023-24)

a) New Courses Proposed:

Course Code	Course Title	Credits
ENDX 22	Research Methodology	4
ENDX 23	Partition Literature	4
ENDX 24	Science Fiction & Detective Literature	4
ENDX 61	Business Communication	4
ENDX 62	Literature & Reality	4
ENDX 31	British literature: Post World War II	4
ENDX 32	World Literature	4
ENDX 33	Autobiography	4
ENDX 34	Marginal Literature	4
ENDX 67	Content Writing	4

b) Courses with syllabus revision (Proposed):

Course Code	Course Name	Credits	Revision (%)
END 3131	Postcolonial Literatures	6	40%
END 3132	Shakespeare	6	90%
END 3133	Comparative Literature	6	50%
ENDX 21	Translation Studies	4	20%
ENDX 66	English for Research Purposes	4	20%

The revised curriculum and syllabi of courses (III, IV, V & VI Semesters) of B.A. English (Hons.) under R 2021 are given in [Annexure 18.24.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 18.24.2

To consider and approve revision in curriculum and the syllabi of the course 'ENCX 35 - English for Academic Purposes' offered to the VI semester B.A. English (Hons.) under Regulations 2016.

Note on Agenda:

The syllabus of the course 'ENCX 35 - English for Academic Purposes' was framed to enhance the employability opportunity of the students by honing their English language skills and included in the elective courses.

The revised curriculum and syllabus of the course is given in [Annexure 18.24.2](#). The Academic Council may consider and approve the same for implementation in the even semester of the academic year 2021-22.

Resolution:

After deliberations, the agenda item was approved for implementation from the even semester of the academic year 2021-22.

DEPARTMENT OF COMMERCE

Item 18.25

To consider and approve the recommendations of the Board of Studies of the Department of Commerce.

Item 18.25.1.

To consider and approve the syllabi (III, IV, V & VI semester) of B.Com. (General) under Regulations 2021.

Note on Agenda:

The major revision in curriculum of B.Com. (General) under R 2021 & Syllabi of I & II Semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the year AY 2021-2022.

In the 16th meeting of Board of Studies of Commerce Department, which was held on

11th and 13th December 2021, the syllabi of III, IV, V, VI Semester Courses were deliberated. After deliberations the board has recommended the same for approval in the Academic Council.

The salient features of the B.Com. (General) curriculum under R 2021 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I & II (AY 2021-22)

a) New Courses introduced:

Course Code	Course Title	Credits
COD 1104	Business Intelligence using Excel and Access	2
COD 1105	Introduction to Indian Constitution	1
COD 1204	Public Speaking and Presentation Skills	1

b) Courses with Syllabus revision:

Course Code	Course Name	Credits	Revision (%)
COD 1101	Financial Accounting	5	70%
COD 1102	Business Organisation and Management	4	30%
COD 1103	Environmental Studies	4	70%
COD 1201	Advanced Financial Accounting	5	30%
COD 1202	Business Law	4	25%
COD 1203	Business Economics	4	30%

II. Semester III and IV (AY 2022-23)

a) New Courses Proposed:

Course Code	Course Title	Credits
COD 2101	Corporate Accounting	5
COD 2102	Corporate Law	4
COD 2103	Business Mathematics and Statistics	4
COD 2104	Book Review	1
COD 2204	Blog Writing	1
CODX 01	Marketing Management	4
CODX 02	Corporate Governance	4
CODX 03	Financial Statement Analysis and Reporting	4

CODX 11	Human Resources Management	4
CODX 12	Business Incubation	4
CODX 13	Personal Finance and Planning	4
CODX41	Auditing	4
CODX42	Business Tax Procedures and Management	4
CODX43	Leadership and Team Development	4
CODX51	Business Research Methods	4
CODX52	Indian Economy	4
CODX53	Mind Management	4

b) Courses with syllabus revision (Proposed):

Course Code	Course Name	Credits	Revision (%)
COD 2202	Financial Management	4	50%
COD 2203	Entrepreneurship Development	4	30%
COD 2201	Cost Accounting	5	50%

III. Semester V & VI (AY 2023-24)

a) New Courses Proposed:

Course Code	Course Title	Credits
COD 3102	Goods and Services Tax	4
COD 3104	Case Study Analysis	1
COD 3201	Income Tax Law and Practice	5
COD 3202	Business Analytics using Python	2
COD 3203	Current Business Affairs	1
COD 3103	National Service Scheme	2
COD 3204	Project Work	6
CODX 21	Organisational Behaviour	4
CODX 22	Industrial Relations and Labour Laws	4
CODX 23	Consumer Affairs	4
CODX31	Business Ethics and Human Values	4

CODX32	E-Business	4
CODX33	Tax Planning and Management	4
CODX61	Banking and Insurance	4
CODX62	Event Management	4
CODX63	Good Governance	4
CODX71	Project Management	4
CODX72	Stock Market Operations	4
CODX73	New Venture Planning and Development	4
CODX81	Public Administration and Business	4
CODX82	Rural Development	4
CODX83	People Management	4
CODX91	Sustainable Development	4
CODX92	Rural Marketing	4
CODX93	Risk Management	4

b) Courses with syllabus revision (Proposed):

Course Code	Course Name	Credits	Revision (%)
COD 3101	Management Accounting	5	30%

The curriculum and syllabi of the courses (III, IV, V and VI Semester) of B.Com. (General) under R 2021 are given in [Annexure 18.25.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 18.25.2

To consider and approve the syllabi (III, IV, V & VI semester) of B.Com.. (Accounts & Finance) under Regulations 2021.

Note on Agenda:

The major revision in curriculum of B.Com. (Accounts & Finance) under R 2021 & Syllabi of I & II Semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the AY 2021-2022.

In the 16th meeting of Board of Studies of Commerce Department, which was held on 11th and 13th December 2021, the syllabi of III, IV, V, VI Semester Courses were deliberated. After deliberations the board has recommended the same for approval in the Academic Council.

The salient features of the B.Com. (Accounts & Finance) curriculum under R 2021 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I & II (AY 2021-22)

a) New Courses Introduced:

Course Code	Course Title	Credits
COD 1102	Business Organisation and Management	4
COD 1104	Business Intelligence using Excel and Access	2
COD 1211	Financial Services	4
COD 1105	Introduction to Indian Constitution	1
COD 1204	Public Speaking and Presentation Skills	1

b) Courses with Syllabus revision:

Course Code	Course Name	Credits	Revision (%)
COD 1101	Financial Accounting	5	70%
COD 1103	Environmental Studies	4	70%
COD 1201	Advanced Financial Accounting	5	30%
COD 1203	Business Economics	4	30%

II. Semester III and IV (AY 2022-23)

a) New Courses Proposed:

Course Code	Course Title	Credits
COD 2111	Corporate and Business Law	4
COD 2103	Business Mathematics and Statistics	4
COD 2104	Book Review	1

COD 2204	Blog Writing	1
CODX 101	Strategic Corporate Finance	4
CODX 102	Export-Import Procedures and Documentation	4
CODX 03	Financial Statement Analysis and Reporting	4
CODX 111	Investment Management	4
CODX 112	Financial Econometrics	4
CODX 113	Financial Derivatives	4
CODX 41	Auditing	4
CODX 141	Business Tax Planning	4
CODX 142	International Trade Blocks and Multilateral Agencies	4
CODX 51	Business Research Methods	4
CODX 151	Management of Financial Institutions	4
CODX 152	Forensic Analysis and Fraud Investigation	4

b) Courses with syllabus revision (Proposed):

Course Code	Course Name	Credits	Revision (%)
COD 2101	Corporate Accounting	5	60%
COD 2202	Financial Management	4	50%
COD 2203	Entrepreneurship Development	4	30%
COD 2201	Cost Accounting	5	50%

III. Semester V & VI (AY 2023-24)

a) New Courses Proposed:

Course Code	Course Title	Credits
COD 3102	Goods and Services Tax	4
COD 3104	Case Study Writing	1
COD 3201	Income Tax Law and Practice	5
COD 3202	Business Analytics using Python	2

COD 3203	Current Business Affairs	1
COD 3204	Project Work	6
COD 3103	National Service Scheme	2
COD 3101	Management Accounting	5
COD 3105	Summer Internship	2
CODX 122	Corporate Restructuring	4
CODX 123	International Business Environment	4
CODX 131	Investment Banking	4
CODX 133	Corporate Analysis and Valuation	4
CODX 61	Banking and Insurance	4
CODX 161	Financial Markets	4
CODX 162	Industrial Psychology	4
CODX 171	Derivatives Management	4
CODX 172	Merchant Banking	4
CODX 173	Business Finance	4
CODX 81	Public Administration and Business	4
CODX 82	Rural Development	4
CODX 83	People Management	4
CODX 91	Sustainable Development	4
CODX 92	Rural Marketing	4
CODX 93	Risk Management	4

b) Courses with syllabus revision (Proposed):

Course Code	Course Name	Credits	Revision (%)
CODX 132	Working Capital Management	4	20%
CODX 121	International Finance	4	50%

The curriculum and syllabi of the courses (III, IV, V and VI Semester) of B.Com. (Accounts & Finance) under R 2021 are given in [Annexure 18.25.2](#). The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 18.25.3

To consider and approve the syllabi (III, IV, V & VI semester) of B.Com. (Honours) under Regulations 2021.

Note on Agenda:

The major revision in curriculum of B.Com. (Honours) under R 2021 & Syllabi of I & II Semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the AY 2021-2022.

In the 16th meeting of Board of Studies of Commerce Department, which was held on 11th and 13th December 2021, the syllabi of III, IV, V, VI Semester Courses were deliberated. After deliberations, the board has recommended the same for approval in the Academic Council.

The salient features of the B.Com. (Honours) curriculum under R 2021 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I & II (AY 2021-22)

a) New Courses Introduced:

Course Code	Course Title	Credits
COD 1124	Fundamentals of Business Economics	3
COD 1103	Environmental Studies	4
COD 1104	Business Intelligence using Excel and Access	2
COD 1105	Introduction to Indian Constitution	1
COD 1225	Macro Economics	3
COD 1204	Public Speaking and Presentation Skills	1

II. Semester III & IV (AY 2022-23)

a) New Courses Introduced:

Course Code	Course Title	Credits
COD 2103	Business Mathematics and Statistics	4
COD 2125	Business Communication	2
CODX 201	Financial Markets and Institutions	4

CODX 01	Marketing Management	4
CODX 202	Modern Banking and Insurance	4
CODX 21	Organisational Behaviour	4
CODX 211	Corporate Legal Framework	4
CODX 212	Artificial Intelligence for Business	4
CODX 51	Business Research Methods	4
CODX 43	Leadership and Team Development	4
CODX 162	Industrial Psychology	4

III. Semester V & VI (AY 2023-24)

a) New Courses Introduced:

Course Code	Course Title	Credits
CODX 22	Industrial Relations and Labour Laws	4
CODX 221	Entrepreneurship Development	4
CODX 23	Consumer Affairs	4
CODX 232	Financial Technology and Analytics	4
CODX 32	E-Business	4
CODX 251	Digital Marketing	4
CODX 252	Micro Finance	4
CODX 73	New Venture Planning and Development	4

b) Courses with syllabus revision (Proposed):

Course Code	Course Name	Credits	Revision (%)
CODX 231	Logistics and Supply Chain Management	4	20%

The curriculum and syllabi of the courses (III, IV, V and VI Semester) of B.Com. (Honours) under R 2021 are given in [Annexure 18.25.3](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 18.25.4

To consider and approve the syllabi (III, IV, V & VI semester) of BBA (Financial Services) under Regulations 2021.

Note on Agenda:

The major revision in curriculum of BBA (Financial Services) under R 2021 & Syllabi of I & II Semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the AY 2021-2022.

In the 16th meeting of Board of Studies of Commerce Department, which was held on 11th and 13th December 2021, the syllabi of III, IV, V, VI Semester Courses were deliberated. After deliberations, the board has recommended the same for approval in the Academic Council.

The salient features of the BBA (Financial Services) curriculum under R 2021 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I & II (AY 2021-22)

a) New Courses introduced:

Course Code	Course Title	Credits
COD 1141	Fundamentals of Financial Accounting	5
COD 1102	Business Organisation and Management	4
COD 1103	Environmental Studies	4
COD 1104	Business Intelligence using Excel and Access	2
COD 1105	Introduction to Indian Constitution	1
COD 1245	Business Communication and Documentation	3
COD 1204	Public Speaking and Presentation Skills	1

II. Semester III and IV (AY 2022-23)

a) New Courses Proposed:

Course Code	Course Title	Credits
COD 2142	Managing Finance in Digital World	5
COD 2103	Business Mathematics and Statistics	4
COD 2104	Book Review	1

COD 2241	Financial Markets and Institutions	4
COD 2203	Entrepreneurship Development	4
COD 2204	Blog Writing	1
CODX 202	Modern Banking and Insurance	4
CODX 401	Introduction to Business Law	4
CODX 133	Corporate Analysis and Valuation	4
CODX 411	Business Environment	4
CODX 412	Retail Banking	4
CODX 62	Event Management	4
CODX 72	Stock Market Operations	4
CODX 441	Financial Advising	4
CODX 51	Business Research Methods	4
CODX 71	Project Management	4
CODX 451	Fundamental Analysis and Technical Analysis of Financial Market	4

b) Courses with syllabus revision (Proposed):

Course Code	Course Name	Credits	Revision (%)
CODX 11	Human Resource Management	4	35%

III. Semester V & VI (AY 2023-24)

a) New Courses Proposed:

Course Code	Course Title	Credits
COD 3141	Investment Analysis and Portfolio Management	4
COD 3142	Investment Banking and Financial Services	4
COD 3103	National Social Service	2
COD 3104	Case Study Analysis	1
COD 3241	International Finance	4
COD 3202	Business Analytics Using Python	2
COD 3203	Current Business Affairs	1

CODX 01	Marketing Management	4
CODX 421	Commodity and Derivatives Market	4
CODX 112	Financial Econometrics	4
CODX 232	Financial Technology and Analytics	4
CODX 431	Personal Finance and Planning	4
CODX 462	Goods and Services Tax	4
CODX 73	New Venture Planning and Development	4
CODX 471	Selling and Negotiation	4
CODX 151	Management of Financial Institutions	4
CODX 81	Public Administration and Business	4
CODX 82	Rural Development	4
CODX 83	People Management	4
CODX 91	Sustainable Development	4
CODX 92	Rural Marketing	4
CODX 93	Risk Management	4

b) Courses with syllabus revision (Proposed):

Course Code	Course Name	Credits	Revision (%)
CODX 251	Digital Marketing	4	40%
CODX 461	Behavioural Finance	4	20%
CODX 122	Corporate Restructuring	4	40%

The curriculum and syllabi of the courses (III, IV, V and VI Semester) of BBA (Financial Services) under R 2021 are given in [Annexure 18.25.4](#)

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 18.25.5

To consider and approve the syllabi (III, IV, V & VI semester) of BBA (General) under Regulations 2021.

Note on Agenda:

The major revision in curriculum of BBA (General) under R 2021 & Syllabi of I & II Semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the AY 2021-2022.

In the 16th meeting of Board of Studies of Commerce Department, which was held on 11th and 13th December 2021, the syllabi of III, IV, V, VI Semester Courses were deliberated. After deliberations, the board has recommended the same for approval in the Academic Council.

The salient features of the BBA (General) curriculum under R 2021 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I & II (AY 2021-22)

a) New Courses introduced:

Course Code	Course Title	Credits
COD 1102	Business Organisation and Management	4
COD 1104	Business Intelligence using Excel and Access	2
COD 1105	Introduction to Indian Constitution	1
COD 1231	Fundamentals of Human Resources Management	4
COD 1232	Principles of Marketing	4
COD 1233	Creativity and Innovation	4
COD 1204	Public Speaking and Presentation Skills	1

b) Courses with Syllabus revision:

Course Code	Course Name	Credits	Revision (%)
COD 1101	Financial Accounting	5	70%
COD 1103	Environmental Studies	4	70%
COD 1203	Business Economics	4	30%

II. Semester III and IV (AY 2022-23)

a) New Courses Proposed:

Course Code	Course Title	Credits
COD 2111	Corporate and Business Law	4
COD 2103	Business Mathematics and Statistics	4

COD 2104	Book Review	1
COD 2231	International Business	4
COD 2202	Financial Management	4
COD 2204	Blog Writing	1
CODX 301	Services Marketing	4
CODX 302	Operations Research	4
CODX 303	Integrated Marketing Communication	4
CODX 311	Industrial Relations and Legislations	4
CODX 312	Management of Financial Services	4
CODX 313	Social Entrepreneurship	4
CODX 341	Logistics and Supply Chain Management	4
CODX 342	IT for Business	4
CODX 43	Leadership and Team Development	4
CODX 51	Business Research Methods	4
CODX 351	Collective Bargaining and Negotiation Skills	4
CODX 352	Human Resources Development	4

b) Courses with syllabus revision (Proposed):

Course Code	Course Name	Credits	Revision (%)
COD 2131	Operations Management	4	40%
COD 2203	Entrepreneurship Development	4	30%

III. Semester V & VI (AY 2023-24)

a) New Courses Proposed:

Course Code	Course Title	Credits
COD 3102	Goods and Services Tax	4
COD 3103	National Service Scheme	2
COD 3104	Case Study Writing	1
COD 3202	Business Analytics Using Python	2
COD 3203	Current Business Affairs	1

CODX 21	Organisational Behaviour	4
CODX 322	Selling Skills and Application Process	4
CODX 31	Business Ethics and Human Values	4
CODX 331	Performance Management	4
CODX 332	Indian Financial System	4
CODX 61	Banking and Insurance	4
CODX 361	Mutual Fund Market Research and Sales	4
CODX 71	Project Management	4
CODX 371	E- Commerce	4
CODX 372	Organisational Development	4
CODX 81	Public Administration and Business	4
CODX 82	Rural Development	4
CODX 83	People Management	4
CODX 91	Sustainable Development	4
CODX 92	Rural Marketing	4
CODX 93	Risk Management	4

b) Courses with syllabus revision (Proposed):

Course Code	Course Name	Credits	Revision (%)
COD 3231	Cost and Management Accounting	5	40%
COD 3231	Strategic Management	4	30%
CODX 321	Customer Relationship Management	4	40%
CODX 62	Event Management	4	40%

The curriculum and syllabi of the courses (III, IV, V and VI Semester) of BBA (General) under R 2021 are given in [Annexure 18.25.5](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 18.25.6

To consider and ratify the evaluation pattern of one credit courses and the NSS course

Note on Agenda:

The evaluation procedure of one credit courses and NSS course for B.COM. (Accounts & Finance), B.Com (Honours), BBA (General), and BBA (FS) under Regulations 2021 was deliberated and approved by the Board of Studies members.

The following are the list of one credit courses and NSS (2 credit) course:

Course Code	Course Name
COD 1105	Introduction to Indian Constitution
COD 1204	Public Speaking and Presentation Skills
COD 2104	Book Review
COD 2204	Blog Writing
COD 3104	Case Study Analysis
COD 3203	Current Business Affairs
COD 3103	National Social Service (2 credits)

The evaluation procedure is given in [Annexure 18.25.6](#). The Academic Council may consider and ratify the same for implementation from the academic year 2021-22.

Resolution:

After deliberations, the agenda item was ratified with effect from the academic year 2021-22.

DEPARTMENT OF PUBLIC POLICY

Item 18.26

To consider and approve the recommendations of the Board of Studies of the Department of Public Policy.

Item 18.26.1

To consider and approve the syllabi (III & IV semester) of B.A. (Public Policy) under Regulations 2021.

Note on Agenda:

The proposal of curriculum of B.A (Public Policy) under R 2021 & Syllabi of I & II

Semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the AY 2021-2022.

In the 2nd meeting of Board of Studies of Public Policy Department which was held on 11th January 2022, the syllabi of III & IV Semester Courses were deliberated. After deliberations the board has recommended the same for approval in the Academic Council.

The salient features of the B.A. (Public Policy) curriculum under R 2021 with respect to 'Introduction of New Courses' are as follows:

I. Semester I & II (AY 2021-22)

a) New Courses introduced:

Course Code	Course Title	Credits
PPD1101	Introduction to Politics	3
PPD1102	Indian Constitutional Framework	4
PPD1103	World Physical Geography	4
PPD1104	Basic Numeracy	3
PPD1105	Project: Map Work	1
PPDX01	NCC: General Orientation & Drill	2
PPDX02	Understanding Youth	2
PPDX03	Human Rights and Social Legislation	2
PPD1201	Introduction to Sociology	4
PPD1202	Ancient Indian History	3
PPD1203	Political Economy	4
PPD1204	Analytical Reasoning	3
PPD1205	Field Study: Archaeological sites	1
PPDX04	NCC: Social Service, Community Development & Drill	2
PPDX05	Human Development: Theory, Policy and Practice	2
PPDX06	Corporate Social Responsibility	2

II. Semester III & IV (AY 2022-23)

a) New Courses Proposed:

Course Code	Course Title	Credits
PPD2101	Indian Polity and Governance	3
PPD2102	Indian Geography	3

PPD2103	Medieval and Early Modern Indian History	3
PPD2104	Introduction to Economics	3
PPD2105	Environmental Study	2
PPD2106	General Mental Ability	3
PPD2107	Field Study: Village Studies	1
PPDX07	NCC: Personality Development, Leadership & Obstacle training.	2
PPDX08	Right to Information Act	2
PPDX09	Local Self Government	2
PPDX51	Political Ideologies of the World	3
PPDX53	History of the Tamil Land	3
PPD2201	Public Administration: Theory and Practice	4
PPD2202	Indian National Movement	3
PPD2203	Indian Economic and Social Development	3
PPD2204	International Relations and Organisations	3
PPD2205	Logical Reasoning	3
PPD2206	Art of Public Speaking	1
PPDX10	NCC: Disaster Management & Weapon training	3
PPDX11	General Knowledge	3
PPDX12	General Science	3
PPDX54	Indian Society and Social Problems	3
PPDX56	Politics in India since Independence	3

The curriculum and syllabi of the courses (III & IV Semester) of B.A (Public Policy) under R 2021 are given in [Annexure 18.26.1](#).

Excerpts of Minutes of 19th Academic Council Meeting



Minutes of the

Nineteenth Meeting of the Academic Council

of

B.S. Abdur Rahman Crescent Institute of Science and Technology

held on

September 29, 2022

ITEMS MOVED BY CHAIRMAN, BOARD OF STUDIES

SCHOOL OF INFRASTRUCTURE
DEPARTMENT OF CIVIL ENGINEERING

Item 19.3

To consider and approve the recommendations of the Board of Studies of the Department of Civil Engineering.

Item 19.3.1

To consider and approve the Curriculum and Syllabi of M.Tech. Structural Engineering under Regulations 2022.

Note to Agenda:

The Institution follows the best practice of effecting major revision in curriculum and syllabi of M.Tech. Programmes once in three years considering the dynamic changes in the industry, introduction of new technology and techniques, emerging trends, employment opportunities and feedback from stakeholder's viz., students, parents, faculty, alumni and employers. This is in addition to the revision in curriculum and syllabi of programmes facilitated once in six months.

In the 17th meeting of Board of Studies of Civil Engineering Department, which was held on 10th August 2022, the curriculum and syllabi and Programme Specific Outcomes of M.Tech. Structural Engineering under R 2022 was deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The Salient features of M.Tech. Structural Engineering curriculum under R 2022 with respect to "Introduction of New courses" and "Courses with Syllabus revisions" are as follows:

I. Semester I - IV

a) New courses introduced: (Academic Year 2022-23)

Course Code	Course Name	Credit
CEE6104	Destructive and Non-Destructive Testing of Concrete	1
CEE6214	Structural Modeling and Analysis Laboratory	1
CEEY106	Ground Improvement Techniques	3
CEEY111	Subsurface Exploration Techniques	2
CEEY112	3D Printing Concrete Technology	1
CEEY202	Characterization of Construction Material	3

b) Courses with Syllabus revisions:(Academic Year 2022-23)

Course Code	Course Name	Credit	Revision (%)
CEE6101	Advanced Design of Concrete Structures	4	20
CEE6103	Condition Assessment and Rehabilitation of Structures	3	25
CEE6102	Dynamics of Structures	4	20
CEE6211	Finite Element Analysis in Structural Engineering	3	20
CEE6213	Advanced Design of Steel Structures	4	20
CEEY201	Advanced Concrete Technology	3	30
CEEY202	Corrosion prevention and control in RC Structures	3	20
CEEY109	Water Proofing of Concrete and Masonry Structures	3	60
CEEY211	Fire protection of Structures	1	50

The Curriculum, Syllabi of the courses and Programme Specific Outcomes of M.Tech. Structural Engineering under R 2022 are given in [Annexure 19.3.1](#).

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the above item was approved.

Item 19.3.2

To consider and approve the curriculum and syllabi of M.Tech. Construction Engineering and Project Management under Regulations 2022.

Note to Agenda:

In the 17th meeting of Board of Studies of Civil Engineering Department, which was held on 10th August 2022, the curriculum and syllabi and Programme Specific Outcomes of Construction Engineering and Project Management under R 2022 were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The Salient features of M.Tech. Construction Engineering and Project Management curriculum under R 2022 with respect to “Introduction of New courses” and “Courses with

syllabus revisions” are as follows:

I. Semester I - IV

a) New courses introduced:(Academic Year 2022-23)

Course Code	Course Name	Credit
CEE 6125	Statistics Laboratory	1
CEE6104	Destructive and Non-Destructive Testing of Concrete	3
CEEY 152	Port Planning and Management	3
CEEY 162	Planning Legislation and Administration	3
CEEY154	Building Acoustics	2
CEEY 165	Sustainable Construction	3
CEEY 156	Digital Technology in Construction	1

b) Courses with Syllabus revisions:(Academic Year 2022-23)

Course Code	Course Title	Credits	Revision (%)
CEE 6124	Construction Equipment Management	2	30
CEE 6222	Lean Construction Management	3	40
CEEY 151	Infrastructure Planning and Management	3	20
CEEY 153	Integrated Building Management Services	3	35
CEEY 167	Resource Management and Control in Construction	3	35
CEEY101	Advanced Concrete Technology	3	30

The Curriculum and syllabi of the courses and Programme Specific Outcomes of M.Tech. Construction Engineering and Project Management under Regulations 2022 are given in [Annexure 19.3.2.](#)

The Academic Council may consider and approve the same for implementation from the academic year 2022-2023.

Resolution:

After deliberations, the agenda item was approved.

Item 19.3.3

To consider and approve the revision in curriculum & syllabi of the course ‘CECX 64 Sustainable Design of Buildings’ in B.Tech. Civil Engineering under Regulations 2017.

Note to Agenda:

The course “CECX 64 Sustainable Design of Buildings” was introduced as professional elective course in the VII semester. This revision was deliberated in the 17th meeting of board of studies of Department of Civil Engineering and the board has recommended the same for approval in the Academic Council.

The revised curriculum & syllabus of the course “CECX 64 Sustainable Design of Buildings” is given in [Annexure 19.3.3](#).

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Discussions:

Dr. B. Suresh suggested rephrasing the name of the course “CECX 64 Sustainable Design of Buildings” to “CECX 64 Design of Sustainable Buildings” for more clarity.

Resolution:

After deliberations, the agenda item was approved.

SCHOOL OF MECHANICAL SCIENCES

DEPARTMENT OF MECHANICAL ENGINEERING

Item 19.4

To consider and approve the recommendations of the Board of Studies of the Department of Mechanical Engineering.

Item 19.4.1

To consider and approve the curriculum and syllabi of Program core courses and Professional elective courses (Semester I) of M.Tech. CAD-CAM under Regulations 2022

Note to Agenda:

The Institution follows the best practice of effecting major revision in curriculum and syllabi of M.Tech. Programmes once in three years considering the dynamic changes in the industry, introduction of new technology and techniques, emerging trends, employment

opportunities and feedback from stakeholder's viz., students, parents, faculty, alumni and employers. This is in addition to the revision in curriculum and syllabi of programmes facilitated once in six months.

In the 20th meeting of Board of Studies of Mechanical Engineering Department, which was held on 08th August 2022, the curriculum and syllabi of Program core courses and Professional elective courses (Semester I) of M.Tech. (CAD-CAM) under R 2022 were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The Salient features of M.Tech. (CAD-CAM) curriculum under R 2022 with respect to "Introduction of New courses" and "Courses with Syllabus revisions" are as follows:

I. Semester I & II

a) New courses introduced: (Academic Year 2022-23)

Course Code	Course Title	Credits
MEEY 013	Artificial Intelligence and Machine Learning	3

b) Courses with Syllabus revisions:(Academic Year 2022-23)

Course Code	Course Title	Credits	Revision (%)
MEE 6101	Applied Materials Engineering	3	20
MEE 6102	Computer Graphics and Geometric Modeling (Integrated lab)	4	25
MEE 6103	Mechatronics and Automation (Integrated lab)	4	25
MEE 6104	Additive Manufacturing	2	20
MEE 6201	Integrated Product Development (Integrated Lab)	3	30
MEE 6202	Advanced Finite Element Analysis (Integrated Lab)	4	25
MEE 6203	Digital Manufacturing	2	20
MEE 6204	Advanced Computing Lab	1	20
Professional elective courses identified for Semester I			
MEEY 006	Design of Hydraulic and Pneumatic systems	3	20
MEEY 009	Mechanical Vibrations	3	20

MEEY 011	Tribology	3	20
MEEY 012	Measurements and NDT (Integrated Lab)	3	25
MEEY 021	Advances in Manufacturing Technology	3	20
MEEY 022	CNC Machines and Computer Aided Manufacturing	3	20
MEEY 032	Industrial Safety Management	3	20
MEEY 034	Manufacturing Information Systems	3	20

The Curriculum and syllabi of Program core courses and Professional elective courses (Semester I) of M.Tech. CAD-CAM under R 2022 are given in [Annexure 19.4.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-2023.

Resolution:

After deliberations, the agenda item was approved.

Item 19.4.2

To consider and approve the syllabi of Program core courses and Professional elective courses (Semester V - VIII) of B.Tech. Mechanical engineering under Regulations 2021.

Note to Agenda:

The major revisions in curriculum of B.Tech. Mechanical Engineering under Regulations 2021 and syllabi of program core courses (I – IV sem.) was approved in the 17th & 18th meeting of Academic Council respectively. In the 20th meeting of Board of Studies of Mechanical Engineering Department, which was held on 08th August 2022, the syllabi of Program core courses and Professional elective courses (Semester V - VIII) were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The salient features of B.Tech. Mechanical Engineering curriculum under R-2021 with respect to “Introduction of New courses” and “Courses with Syllabus revisions” are as follows:

I. Semester V - VIII

a) New courses proposed: (AY 2023-24)

Course Code	Course Title	Credits
MED 3103	Automation in Manufacturing	3
MED 3212	Additive Manufacturing	3
MEDX 07	Design of Transmission Systems	3
MEDX 08	Mechanics of Composite Materials	3
MEDX 09	Design of Material Handling Equipment	3
MEDX 10	Tribology	3
MEDX 11	Design of Electric Vehicle Components	3
MEDX 12	Shipment Packaging Design and Development	3
MEDX 13	Design of Pressure Vessels and Piping Engineering	3
MEDX 17	Instrumentation and Control	2
MEDX 19	Product Design Using Value Engineering	1
MEDX 39	Design of Heat Transfer Equipments	3
MEDX 40	Electric and Hybrid Vehicles	3
MEDX 45	Design of Compact and Micro Heat Exchangers	1
MEDX 54	Project Management	3
MEDX 55	Advanced Machining Processes	3
MEDX 56	Surface Mounting Technology	3
MEDX 57	Operation Research Techniques	3
MEDX 58	Total Productive Maintenance	3
MEDX 59	Agile Manufacturing	3
MEDX 63	Industrial Engineering	3
MEDX 64	Green Manufacturing Design and Practices	3
MEDX 65	Rubber Product Manufacturing Technology	3
MEDX 66	Tyre Manufacture and Testing	3
MEDX 76	Aerospace Materials	3
MEDX 77	Thin Films, Coatings and Applications	3
MEDX 79	Fracture of Engineering Materials	3
MEDX 80	Design and Applications of Biomaterials	3
MEDX 82	Friction Materials: Formulation and Characterization	3
MEDX 83	Rubber Recycling and Waste Management	3
MEDX 84	Polymer Rheology	3
MEDX 85	Rubber Technology	3

MEDX 86	Characterization of Materials	3
MEDX 88	Materials for Modern Device Technology	2
MEDX 90	Materials for Extreme Environment	2
MEDX 91	Dynamic Behaviour of Materials	2
MEDX 93	Corrosion Engineering	1

New courses proposed: (AY 2024-25)

Course Code	Course Title	Credits
MED 4101	Automobile Engineering	3

b) Courses with syllabus revisions (proposed): (AY 2024-25)

Course Code	Course Title	Credits	Revision (%)
MED 3101	Heat and Mass Transfer	4	25
MED 3102	Mechatronics	4	25
MED 3104	Product Modelling Laboratory	1	20
MED 3211	Finite Element Analysis	4	30
MED 3213	Simulation Laboratory	1	20
MEDX 01	Advanced Strength of Materials	3	25
MEDX 04	Design of Jigs, Fixtures and Press Tools	3	25
MEDX 05	Industrial Problem Solving Techniques	3	20
MEDX 06	Product Design and Manufacturing	3	20
MEDX 14	Geometric Modelling	2	25
MEDX 15	Reliability Engineering	2	25
MEDX 16	Micro Electro Mechanical Systems (MEMS)	2	20
MEDX 18	Advanced System Simulation (1D Modeling)	1	25
MEDX 31	Refrigeration and Air Conditioning	3	20
MEDX 32	Advanced I.C. Engines	3	20
MEDX 34	Gas Dynamics and Jet Propulsion	3	20
MEDX 35	Energy Conversion Systems	3	25
MEDX 36	Computational Flow and Heat Transfer	3	25
MEDX 37	Renewable Sources of Energy	3	20

MEDX 38	Solar Engineering	3	20
MEDX 41	Energy Conservation and Management	2	25
MEDX 42	Automotive Pollution and Control	2	20
MEDX 51	Process Planning and Cost Estimation	3	20
MEDX 52	Production Planning and Control	3	20
MEDX 53	Statistics and Quality Control	3	20
MEDX 60	Composite Materials for Manufacture	3	20
MEDX 67	Plant Layout and Material Handling	2	20
MEDX 68	Production Management	2	20
MEDX 69	Internet of Things for Manufacturing	2	20
MEDX 70	Digital Manufacturing	1	25
MEDX 71	Geometric Dimensioning and Tolerancing	1	20
MEDX 72	Tool and Die Design	1	20
MEDX 78	Advanced Engineering Materials	3	20
MEDX 87	Science and Technology of Nano Materials	2	20

The syllabi of the program core courses and professional elective courses (semesters V - VIII) of B.Tech. Mechanical Engineering under R 2021 are given in [Annexure 19.4.2.](#)

The Academic Council may consider and approve the same for implementation from the academic year 2022-2023.

Discussions:

Dr. B. Suresh suggested introducing course emphasizing on “Circular Economy” in the list of elective courses in the future revisions.

Resolution:

After deliberations, the agenda item was approved.

Item 19.4.3

To consider and approve the syllabi of Open elective courses for B.Tech. Programmes under Regulations 2021.

Note to Agenda:

In the 20th meeting of Board of Studies of Mechanical Engineering Department, which was held on 08th August 2022, the syllabi of open elective courses offered to B.Tech. Programmes were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The following are the details of open elective courses and its salient features:

I. Semester VI, VII & VIII

a) New courses proposed: (Academic Year 2023-24)

Course Code	Course Title	Credits
GEDX 120	Industry 4.0	3

Courses with syllabus revisions (proposed): (Academic Year 2023-24)

Course Code	Course Title	Credits	Revision (%)
GEDX 119	Industrial Safety	3	20
GEDX 128	Value Analysis and Engineering	3	20
GEDX 213	Industrial Robotics	3	20
GEDX 227	Total Quality Management	3	20

The syllabi of the open elective courses under R 2021 are given in [Annexure 19.4.3](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-2023.

Resolution:

After deliberations, the agenda item was approved.

DEPARTMENT OF AEROSPACE ENGINEERING

Item 19.5

To consider and approve the recommendations of the Board of Studies of the Department of Aerospace Engineering.

Item 19.5.1

To consider and approve the curriculum and syllabi of M.Tech. Avionics under Regulations 2022.

Note to Agenda:

The Institution follows the best practice of effecting major revision in curriculum and syllabi of M.Tech. Programmes once in three years considering the dynamic changes in the industry, introduction of new technology and techniques, emerging trends, employment opportunities and feedback from stakeholder's viz., students, parents, faculty, alumni and

employers. This is in addition to the revision in curriculum and syllabi of programmes facilitated once in six months.

In the 16th meeting of Board of Studies of Aerospace Engineering Department, which was held on 03.08.2022, the curriculum and syllabi (I & II semester) M.Tech. Avionics under R2022 were deliberated. After deliberations, the Board has recommended the same for approval in the academic council.

The salient features of the M.Tech. Avionics curriculum under R 2022 concerning 'Introduction of New Courses' and 'Courses with Syllabus Revision' are as follows:

I. Semester I & II:

a) New Courses Introduced:(Academic Year 2022-23)

Course Code	Course Title	Credits
AEE6204	Programming in ADA Lab	1
AEE6205	UAV/MAV Design Lab	2
AEEY101	UAV System Design I	3
AEEY103	Payload and Sensors for UAV	3

b) Courses with Syllabus revision:(Academic Year 2022-23)

Course Code	Course Name	Credits	Revision (%)
AEE6102	Flight Instrumentation and Data Acquisition	3	23%
AEE6103	Mathematical Modelling and simulation lab	1	25%
AEE6202	Aircraft Navigation systems	3	25%
AEEY102	UAV system design II	3	30%
AEEY117	Flight Mechanics	3	22%
AEEY121	Satellite communications	3	20%

The Curriculum and syllabi of the courses (I & II Semester) of M.Tech. Avionics under R 2022 are given in [Annexure 19.5.1.](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-2023.

Resolution:

After deliberations, the agenda item was approved.

Item 19.5.2

To consider and approve the syllabi (V - VIII core courses and V semester elective courses) of B.Tech. Aeronautical Engineering under Regulations 2021

Note to Agenda:

The major revisions in curriculum of B.Tech. Aeronautical Engineering under Regulations 2021 and syllabi of I - IV Semester courses were approved in the 18th meeting of Academic Council. In the 16th meeting of Board of Studies of Aerospace Engineering Department, which was held on 03.08.2022, the syllabi of V - VIII semester core courses and V semester elective courses were deliberated. After deliberations, the board has recommended the same for approval in the Academic council.

The salient features of the B.Tech. Aeronautical Engineering curriculum under R 2021 with respect to 'Introduction of new courses' and 'Courses with syllabus revision' (V- VIII sem. & V sem. elective courses) are as follows:

I. Semester V – VIII

a) New Courses (proposed) : Academic Year 2023-24

Course Code	Course Title	Credits
AED 3104	Control Engineering (lab integrated)	3
AEDX 10	Micro Gas Turbine	1
AEDX 35	MEMS Devices and Fabrication	2

b) Courses with syllabus revision (proposed) : Academic Year 2023-24

Course Code	Course Name	Credits	Revision (%)
AED 3102	Aircraft Structural Design and Analysis	3	25%
AED 3212	Flight Dynamics	3	25%
AEDX 02	Helicopter Aerodynamics	3	30%
AEDX 09	Heat Transfer	3	20%
AEDX 17	Theory of Elasticity	3	22%

II. Semester VIII

Courses with Syllabus revision (proposed): Academic Year 2024-25

Course Code	Course Name	Credits	Revision (%)
AED 4103	Computational Mechanics Lab	1	30%

The Curriculum and syllabi of the courses (V - VIII semester and V semester elective courses) of B.Tech. Aeronautical Engineering under R 2021 are given in [Annexure 19.5.2](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-2023.

Resolution:

After deliberations, the agenda item was approved.

DEPARTMENT OF AUTOMOBILE ENGINEERING

Item 19.6

To consider and approve the recommendations of the Board of Studies of the Department of Automobile Engineering.

Item 19.6.1

To consider and approve the syllabi (V - VIII sem. core courses and professional elective courses) of B.Tech. Automobile Engineering under Regulations 2021.

Note on Agenda:

The major revisions in curriculum of B.Tech. Automobile Engineering under Regulations 2021 and syllabi of I - IV Semester courses were approved in the 17th & 18th meeting of Academic Council respectively. In the 14th meeting of Board of Studies of Automobile Engineering Department, which was held on 22nd August 2022, the syllabi of V - VIII semester core courses and professional electives were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The salient features of B.Tech. Automobile Engineering curriculum under R-2021 with respect to “Courses with syllabus revisions” are as follows:

I. Semester V - VIII

a) New courses (proposed): AY 2023- 24 & AY 2024-25

Course Code	Course Title	Credits
AUD3103	Vehicle Inspection & Maintenance (* PC)	3
AUD3212	Battery Technology for Electric Vehicles (* PBL)	3
AUD4101	Hybrid and Electric Vehicles (*PC) (* PBL)	3
AUDX21	Finite Element Analysis of Automotive Components	3

AUDX26	Automotive Suspension and Steering Systems	3
AUDX28	Electric Vehicle Charging Station	3
AUDX29	Electric Bike Design, Servicing & Maintenance	3
AUDX30	EV Technology and Business Management	3
AUDX31	Advanced Driver Assistance systems	3
AUDX32	Connected and Autonomous Vehicle Engineering	3
AUDX35	Vehicle Networking and Internet of things	3
AUDX37	Automotive Accident Investigation and Reconstruction Techniques	3

b) Courses with syllabus revisions (proposed): AY 2023-24 & AY 2024-25

1. Core Courses

Course Code	Course Title	Credits	Revision (%)
AUD3101	Design of Automotive Components (*PBL)	3	20
AUD3211	Automotive Emissions and Control (* PC)	3	20
AUD3213	Automotive Electrical and Electronics	3	20
AUD3102	Vehicle Dynamics	3	20
AUD3104	Vehicle Body Engineering	3	20

2. Professional Elective Courses

Course Code	Course Title	Credits	Revision (%)
AUDX11	Production Process of Automotive Components (*PC)	3	20
AUDX19	Automotive Aerodynamics	3	20
AUDX20	Computational Fluid Dynamics (*PC)	3	20
AUDX23	Design of Hydraulics & Pneumatics Systems for Auto motives	3	20

The syllabi of the courses (V - VIII sem. core courses and professional electives) of B.Tech. Automobile Engineering under R 2021 are given in [Annexure 19.6.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-2023.

Discussions:

The expert members suggested introducing courses related to “e-vehicles” as core courses instead of elective. It was also emphasized to introduce elective course on “Recycling of automobile waste”, since this area posses more opportunities in the near future. Dean, AA said that these suggestions will be deliberated in the upcoming BOS of Department of Automobile Engineering.

Resolution:

After deliberations, the agenda item was approved.

Item 19.6.2

To consider and approve the syllabi of general elective courses offered by the Department of Automobile Engineering under Regulations 2021.

Note on Agenda:

In the 14th meeting of Board of Studies of Automobile Engineering Department, which was held on 22nd August 2022, the syllabi of General Elective courses offered to B.Tech. programmes under R 2021 were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

I. New courses (proposed): AY 2023-24

Course Code	Course Title	Credits
GEDX103	Automotive Technology	3
GECX123	Motor Vehicle Act, Insurance and Policy	3

II. Course with syllabus revision (proposed): AY 2023-24

Course Code	Course Title	% Revision
GECX129	Vehicle Maintenance	20

The syllabi of the general elective courses offered by the Department of Automobile Engineering under R 2021 are given in [Annexure 19.6.2](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-2023.

Resolution:

After deliberations, the agenda item was approved.

SCHOOL OF ELECTRICAL AND COMMUNICATION SCIENCES
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Item 19.7

To consider and approve the recommendations of the Board of Studies of the Department of Electrical and Electronics Engineering.

Item 19.7.1

To consider and approve the revision in curriculum and syllabi (V to VIII Sem. core courses and professional elective courses) of B.Tech. Electrical and Electronics Engineering under Regulations 2021.

Note to Agenda:

The major revisions in the curriculum of B.Tech. Electrical and Electronics Engineering and syllabi (I - IV sem.) of courses under Regulations 2021 were approved in the 17th & 18th meeting of Academic Council respectively.

In the 17th meeting of Board of Studies of Electrical and Electronics Engineering Department, which was held on 15th July 2022, the syllabi of V to VIII semester core courses and professional elective courses were deliberated. Moreover, the elective course “EEDX05 IEEE and IEC standards” has been removed in the curriculum and these standards are included in the courses viz. EEDX05, Industrial Power System Analysis and Design, EEDX07, Power system Transients, EEDX09, High Voltage Engineering, EEDX22, Electric Power Quality and EEDX23, Electrical Machine Design at required places. After deliberations, the Board has recommended the revision in curriculum and syllabi of courses for approval in the Academic council.

The Salient features of B.Tech. Electrical and Electronics Engineering curriculum under R 2021 with respect to “Introduction of New courses” and “Courses with Syllabus revisions” are as follows:

I. Semester V & VI

a) New courses (proposed) : Academic Year 2023-24

Course Code	Course Title	Credits
EED3104	VLSI Design	3
EED3202	Electric Vehicle Technologies	3
ECDX 081	Communication Engineering	3
ECDX 011	ARM architecture and Programming	3

ECDX 086	Computer Communication Networks	3
EIDX 96	Transducers	3
EEDX 53	DC Micro grid	3
EEDX 57	Image and Video Processing	3
EEDX 58	Industrial IoT	3
EEDX 63	Machine Learning	3

b) Courses with Syllabus revisions (proposed) : Academic Year 2023-24

Course Code	Course Title	Credits	Revision (%)
EED 3101	Embedded System	3	40%
EED 3102	Power System Analysis	3	30%
EED 3103	Power Electronics	3	25%
EED 3105	Embedded System Laboratory	3	40%
EED 3107	Power Electronics Laboratory	3	20%
EED 3201	Control Systems	3	20%
EED 3203	Control Systems Laboratory	3	20%
EEDX 01	Distribution System Engineering	3	20%
EEDX 03	Energy Audit	3	20%
EEDX 04	Flexible AC Transmission Systems	3	20%
EEDX 51	Artificial Intelligence for Electrical Engineers	3	30%
EEDX 22	Electric Power Quality	3	20%
EEDX 24	Embedded Control of Electric Drives	3	20%
EEDX 25	HVDC Transmission	3	25%
EEDX 26	Power Electronics Application to Renewable Energy Systems	3	15%
EEDX 28	Special Electrical Machines	3	15%
EEDX 55	Grid Integration of Renewable Energy Systems	3	35%
EEDX 59	IoT for Electrical Engineers	3	20%
EEDX 61	Smart Grid	3	15%
EEDX 62	Solar Energy Technology	3	40%

II. Semester VII & VIII

b) Courses with Syllabus revisions (proposed) : Academic Year 2024-25

Course Code	Course Title	Credits	Revision (%)
EED 4101	PLC SCADA and DCS	4	30%

The revised curriculum and syllabi of courses (V to VIII sem. core courses and professional elective courses) of B.Tech. Electrical and Electronics Engineering under R2021 are given in [Annexure 19.7.1.](#)

The Academic Council may consider and approve the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.7.2

To consider and approve the revision of curriculum & syllabi of M.Tech. Power Systems Engineering under R2022.

Note to Agenda:

The Institution follows the best practice of effecting major revision in curriculum and syllabi of M.Tech. Programmes once in three years considering the dynamic changes in the industry, introduction of new technology and techniques, emerging trends, employment opportunities and feedback from stakeholder's viz., students, parents, faculty, alumni and employers. This is in addition to the revision in curriculum and syllabi of programmes facilitated once in six months.

The curriculum structure and the syllabi of M.Tech. Power Systems Engineering R 2022 were presented before all the stakeholders in the School Level Advisory Committee (SLAC) meeting held on 06.07.22. This was also deliberated in the 17th meeting of Board of Studies of Electrical and Electronics Engineering Department held on 15th July 2022. The Board has recommended the same for approval in the Academic Council.

The Salient features of M.Tech. Power Systems Engineering curriculum under R2022 with respect to "Introduction of new courses" and "Courses with syllabus revisions" are as follows:

I. Semester I and II

b) Courses with Syllabus revisions: Academic Year 2022-23

Course Code	Course Title	Credits	Revision (%)
EEE6211	Advanced power system operation and control	3	25%
EEE6212	Power System Dynamics	4	26%
EEE6103	Flexible AC Transmission Systems	3	22%
EEE 6104	Power System Protection	4	23%

II. Semester III and IV

a) New courses (proposed) : Academic Year 2023-24

Course Code	Course Title	Credits
EEEY025	Electric Vehicles	3

b) Courses with Syllabus revision (proposed) : Academic Year 2023-24

Course Code	Course Title	Credits	Revision (%)
EEEY014	Power Electronics Applications to Power Systems	3	24
EEEY 024	Simulation of Power Electronic Circuits	1	25
EEEY 003	Power Quality	3	22
EEEY 006	Industrial Power System Analysis and Design	3	23
EEEY007	High Voltage Direct Current Transmission	3	20
EEEY 012	Distributed Generation and Micro-grid	3	25
EEEY011	Smart Power Grid	3	20
EEDY 023	Power System Simulation Software	1	22
EEEY025	Electric Vehicles	3	24
EEDY 021	Energy Auditing	2	25

The curriculum & syllabi of M.Tech. Power Systems Engineering under R2022 is given in [Annexure 19.7.2](#).

The Academic Council may consider and approve the same.

Discussions:

The expert members suggested to explore introducing courses emphasizing on Geographical Information System (GIS), Energy storage & hybrid energy, Cost Economics of Renewable energy and Modern Building and Electric systems considering the industry requirements in the upcoming revision of curriculum and syllabi.

Resolution:

After deliberations, the agenda item was approved.

Item 19.7.3

To consider and approve the revision of curriculum & syllabus of the course “Solar Energy Engineering and Technology” in B.Tech. Electrical and Electronics Engineering under Regulations 2017.

Note to Agenda:

The course “Solar Energy Engineering and Technology” was introduced as professional elective course in the VII semester. This revision was deliberated in the 17th meeting of board of studies of Department of Electrical and Electronics Engineering and the board has recommended the same for approval in the Academic Council.

The revised curriculum & syllabus of the course “Solar Energy Engineering and Technology” is given in [Annexure 19.7.3](#).

The Academic Council may consider and approve the same.

Resolution:

After deliberations, the agenda item was approved.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Item 19.8

To consider and approve the recommendations of the Board of Studies of the Department of Electronics and Communication Engineering.

Item 19.8.1

To consider and approve the curriculum and syllabi of M.Tech. VLSI and Embedded Systems under Regulations 2022.

Note to Agenda:

The Institution follows the best practice of effecting major revision in curriculum and syllabi of M.Tech. Programmes once in three years considering the dynamic changes in the industry, introduction of new technology and techniques, emerging trends, employment opportunities and feedback from stakeholder's viz., students, parents, faculty, alumni and employers. This is in addition to the revision in curriculum and syllabi of programmes facilitated once in six months.

In the 23rd meeting of Board of Studies of Electronics and Communication Engineering Department, which was held on 13th July 2022, the PEO and PSO, the curriculum and syllabi of M.Tech. VLSI and Embedded Systems under R2022 were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The Salient features of M.Tech. (VLSI & Embedded Systems) curriculum under R 2022 with respect to "Introduction of New courses" and "Courses with Syllabus revisions" are as follows:

I. Semester I - IV

a) New courses introduced: Academic Year 2022-23

i) Programme Core Courses

Course Code	Course Title	Credits
ECE 6123	Low Power IC Design	3

ii) Professional Elective Courses

Course Code	Course Title	Credits
ECEY 025	Industry 4.0	3
ECEY 027	Machine Learning for Embedded Systems	3
ECEY 054	Nano Electronics and Technology	3
ECEY 063	Electromagnetic Interference and Compatibility	3

b) Courses with Syllabus revisions: (AY 2022-23)

i) Programme Core Courses

Course Code	Course Title	Credits	Revision (%)
ECE 6124	Embedded Processor Architectures & Programming	3	20
ECE 6125	Digital VLSI Design Lab	1	40

ECE 6201	Research Methodology and IPR	3	20
ECE 6222	Analog Integrated Circuit Design	4	40
ECE 6223	Embedded Linux	2	40
ECE 6224	Embedded Systems Lab	1	25

ii) Professional Elective Courses

Course Code	Course Title	Credits	Revision (%)
ECEY 024	Internet Of Things	3	20
ECEY 026	Artificial Intelligence	3	20
ECEY 052	ASIC Design	3	40
ECEY 053	Advanced Digital System Design	3	50
ECEY 056	Programming System Verilog	2	60
ECEY 057	Scripting Languages For VLSI Design Automation	3	60
ECEY 059	Network on Chip	3	80
ECEY 060	SoC Design And Verification	3	60
ECEY 061	Testing Of VLSI Circuits	3	60
ECEY 062	VLSI Digital Signal Processing	3	70
ECEY 081	Multicore Architecture	3	70
ECEY 082	Embedded System For Robotics	3	70

The Curriculum and syllabi of M.Tech. (VLSI & Embedded System) under R 2022 are given in [Annexure 19.8.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-2023.

Resolution:

After deliberations, the agenda item was approved.

Item 19.8.2

To consider and ratify the revised PEOs & PSOs of B.Tech. Electronics and Communication Engineering under Regulations 2021.

Note to Agenda:

In the 23rd meeting of Board of Studies of Electronics and Communication Engineering Department, which was held on 13th July 2022, the revision in PEOs and PSOs

of B.Tech. Electronics and Communication Engineering under Regulations 2021 were deliberated. After deliberations, the Board has recommended the same for ratification in the Academic council. The revised PEOs and PSOs are given in [Annexure 19.8.2](#)

The Academic Council may consider and ratify the same with effect from the Academic Year 2021-22.

Resolution:

After deliberations, the agenda item was approved.

Item 19.8.3

To consider and approve the syllabi (V - VIII sem. core courses and professional elective courses) of B.Tech. Electronics and Communication Engineering under Regulations 2021.

Note to Agenda:

The major revisions in curriculum of B.Tech. Electronics and Communication Engineering under Regulations 2021 and syllabi of (I- IV Semester) courses were approved in the 17th& 18th meeting of Academic Council respectively.

In the 23rd meeting of Board of Studies of Electronics and Communication Engineering Department, which was held on 13th July 2022, the PEOs and PSOs of B.Tech. ECE R2021 and syllabi of (V - VIII sem. core courses and professional elective courses) were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The salient features of B.Tech. Electronics and Communication Engineering curriculum under R2021 with respect to “New courses” and “Courses with Syllabus revisions” are as follows:

I. Semester V & VI

a) New courses (proposed): Academic Year 2023-24

i) Programme Core Courses

Course Code	Course Title	Credits
ECD3101	Python programming for Electronics Engineers*	2
ECD3202	High Frequency Communication Laboratory	1

ii) Professional Elective Courses

Course Code	Course Title	Credits
ECDX008	Multimedia Compression Techniques	3

ECDX014	Fundamentals of Automotive Electronics	3
ECDX019	Advanced Digital Signal Processing	3
ECDX023	Introduction to Embedded Linux	3
ECDX025	R Programming	3
ECDX027	Computer Vision	3
ECDX031	Programming for Robotics	3

II. Semester VII

a) Professional Elective Courses (proposed): Academic Year 2024-25

Course Code	Course Title	Credits
ECDX038	Cognitive Radio Network	3
ECDX040	5G Communication	3
ECDX043	Automotive Networking and protocols	3
ECDX044	Embedded Machine learning	3
ECDX045	CMOS Analog IC Design	3
ECDX047	Introduction to Cloud Computing and Edge Computing	3
ECDX050	Pattern Recognition	3
ECDX051	AI for IoT	3
ECDX053	Natural Language Processing	3
ECDX054	Autonomous Vehicle	3
ECDX055	Automotive Embedded Systems	3
ECDX056	Introduction to Robotic operating system	3
ECDX058	Industrial Robotics	3
ECDX059	AI for Robotics	3

b) i) Courses with syllabus revisions: Semester V & VI

Programme Core Courses (proposed): Academic Year 2023-24

Course Code	Course Title	Credits	Revision (%)
ECD 3102	Digital communication	4	40
ECD3104	Embedded systems design	3	20
ECD3106	Analog and Digital Communication Laboratory	1	20
ECD3107	Embedded Systems Design Laboratory	1	20
ECD 3201	Antennas and Wave propagation	3	20

ii) Courses with syllabus revisions: Semester VII

Programme Core Courses (proposed): Academic Year 2024-25

Course Code	Course Title	Credits	Revision (%)
ECD 4101	Wireless Communication	3	20

iii) Courses with syllabus revisions: Semester V & VI

Professional Elective Courses (proposed): Academic Year 2023-24

Course Code	Course Title	Credits	Revision (%)
ECDX010	Advanced Digital Logic System Design	3	20
ECDX012	Neural Networks and Fuzzy Logic	3	40
ECDX017	Introduction to PCB design	3	40
ECDX018	Radar and Navigational Aids	3	20
ECDX022	Introduction To Real Time Operating Systems	3	20
ECDX024	Mechatronics	3	40
ECDX026	Machine Learning	3	40

iv) Courses with syllabus revisions: Semester VII

Professional Elective Courses (proposed): Academic Year 2024-25

Course Code	Course Title	Credits	Revision (%)
ECDX034	MIMO Communication	3	40
ECDX041	Cyber Security	3	40
ECDX048	Nanoscale Devices and Circuit Design	3	40

The Curriculum and syllabi of the courses (V-VIII sem. core courses and professional elective courses) of B.Tech., Electronics and Communication Engineering under R 2021 are given in [Annexure 19.8.3](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.8.4

To consider and approve the syllabi of courses offered by the ECE department to the B.Tech. Information Technology under Regulations 2021.

Note to Agenda:

In the 23rd meeting of Board of Studies of Electronics and Communication Engineering Department, the syllabi of the following courses of B.Tech. IT programme under R 2021 were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

Course Code	Course Title	Credits	Semester
ECD3181	Signals and Systems	2	5
ECDX 084	Embedded System	3	6
ECDX 085	5G Technology	3	7

The syllabi for the above courses of B.Tech. IT under R 2021 is given in [Annexure 19.8.4](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.8.5

To consider and approve the syllabi of Open Electives courses offered from ECE department to other B.Tech. Programmes under Regulations 2021.

Note on Agenda:

Syllabi of the following open elective courses offered from ECE department to other B.Tech. Programmes under R 2021 were deliberated in the 23rd meeting of Board of Studies of Electronics and Communication Engineering Department. After deliberations, the Board has recommended the same for approval in the Academic council.

Course Code	Course Title	Credits	Semester
GEDX 205	Consumer Electronics	3	6
GEDX 214	Internet of Things and Its Applications	3	6
GEDX 113	Emerging Technologies in Mobile Networks	3	7
GEDX 117	Image Processing and Its Applications	3	7

The syllabi of the above courses offered from ECE department to other B.Tech Programmes under R 2021 is given in [Annexure 19.8.5](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.8.6

To consider and approve Open Electives courses offered from ECE department to Arts and Science Programmes under Regulations 2021.

Note on Agenda:

Syllabi of the following open elective courses offered from ECE department to Arts and Science programme under R 2021 were deliberated in the 23rd meeting of Board of Studies of Electronics and Communication Engineering Department. After deliberations, the Board has recommended the same for approval in the Academic council.

Course Code	Course Title	Credits
GEDX302	AI for e-Commerce	3
GEDX309	Consumer Electronics	3
GEDX321	Internet of Things and Its Applications	3

The syllabi of the courses offered from ECE department to Arts and Science programme under R 2021 is given in [Annexure 19.8.6](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.8.7

To consider and approve the syllabus of the course “Research Methodology and IPR” offered to M.Tech. programmes under Regulations 2022

Note on Agenda:

The course “Research Methodology and IPR” is offered to M.Tech. programmes under Regulations 2022 with 2 credits in line with the AICTE guidelines. The syllabus of the course was deliberated in the 23rd meeting of Board of Studies of Electronics and

Communication Engineering Department, which was held on 13th July 2022 and the board has recommended the same for approval in the Academic Council.

The syllabus for the course “Research Methodology and IPR” is given in [Annexure 19.8.7](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved for implementation from the Academic Year 2022-23 in all the M. Tech programmes offered under Regulations 2022.

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Item 19.9

To consider and approve the recommendations of the Board of Studies of the Department of Electronics and Instrumentation Engineering.

Item 19.9.1

To consider and approve the syllabi (V - VIII sem. core courses and professional elective courses) of B.Tech. Electronics and Instrumentation Engineering under Regulations 2021.

Note to Agenda:

The major revisions in curriculum of B.Tech. Electronics and Instrumentation Engineering under Regulations 2021 and syllabi of I & II, III & IV Semester courses were approved in the 16th & 17th meeting of Academic Council respectively. In the 18th meeting of Board of Studies of Electronics and Instrumentation Engineering Department, which was held on 12.07.22, the syllabi of (V - VIII sem. core courses and professional elective courses) were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The salient features of B.Tech. Electronics and Instrumentation Engineering curriculum under R 2021 with respect to introduction of “New courses” and “Courses with Syllabus revisions” are as follows:

I. Semester V and VI

a) New courses introduced

i) Core courses (proposed): Academic Year 2023-24

Course Code	Course Name	Credit
EID3201	Embedded System and RTOS	3

ii) Professional elective courses (proposed): Academic Year 2023-24

Course Code	Course Name	Credit
EID X23	Industry 4.0	3
EID X45	Mechatronics	3
EID X46	Design Technology and Innovation	3
EID X49	Electronics equipment integration and Prototype building	3
EID X63	3D Animation	3
EID X66	Introduction to Industry 4.0 and Industrial Internet of Things	3

b) Courses with syllabus revision

i) Core courses (proposed): Academic Year 2023-24

Course Code	Course Name	Credit	% Revision
ECD3182	Communication Engineering	3	60
EID3103	Digital signal processing	4	22

II. Semester VII & VIII

a) New courses introduced

i) Professional elective courses (proposed): Academic Year 2024-25

Course Code	Course Name	Credit
EIDX06	Advanced Instrumentation Systems	3
EIDX09	Space and Navigational instrumentation	3
EIDX10	Safety Instrumentation	3
EIDX11	Piping and Instrumentation Diagram	3
EIDX33	Instrumentation and control in Pharmaceutical Industries	3
EIDX34	Instrumentation and control in Chemical Industries	3
EIDX67	Deep Learning	3
EIDX68	Big data Analytics	3
EIDX69	Data science for Engineers	3
EIDX70	Practical Machine learning with tensor flow	3

b) Courses with syllabus revisions

i) Core courses (proposed): Academic Year 2024-25

Course Code	Course Name	Credit	% Revision
EID 4102	Biomedical Instrumentation	3	23

ii) Professional elective courses (proposed): Academic Year 2024-25

Course Code	Course Name	Credit	% Revision
EID X05	Instrumentation System Design	3	23
EID X22	Modern Control System	3	22

The Curriculum and syllabi of the courses (V to VIII sem. core courses and professional elective courses) of B.Tech. Electronics and Instrumentation Engineering under R 2021 is given in [Annexure 19.9.1](#).

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.9.2

To consider and approve the syllabi of professional elective courses offered by E&I department to B.Tech. Electrical and Electronic Engineering under regulations R 2021

Note to Agenda:

The following elective courses offered to B.Tech. Electrical and Electronic Engineering under regulations R 2021 were deliberated in the 18th meeting of board of studies of Department of Electronics and Instrumentation Engineering and the board has recommended the same for approval in the Academic Council

S. No.	Course Code	Course Name	Credits
1.	EIDX 91	Advanced Control System	3
2.	EIDX 92	Bio Instrumentation and Signal Analysis	3
3.	EIDX 93	Biomedical Signal Processing	3
4.	EIDX 94	Industrial Instrumentation	3

5.	EIDX 95	Sensors for Bio-Medical Application	3
6.	EIDX 96	Transducers	3

The syllabi of the above courses are given in [Annexure 19.9.2](#).

The Academic Council may consider and approve the same.

Discussions:

The expert members were suggested to explore introducing elective courses connecting Master Degree and Doctoral Research programmes in the upcoming revisions.

Resolution:

After deliberations, the agenda item was approved.

Item 19.9.3

To consider and approve the revision of curriculum & syllabi of B.Tech. Electronics and Instrumentation Engineering under Regulations 2017

Based on the suggestions from the stake holders, the course “EIC X66 Data science for Engineers” was introduced in the curriculum of B.Tech. Electronics and Instrumentation Engineering under Regulations 2017. This was deliberated in the 18th meeting of board of studies of Department of Electronics and Instrumentation Engineering and the board has recommended the same for approval in the Academic Council.

The revised curriculum and syllabi of the course “EIC X66 Data science for Engineers” are given in [Annexure 19.9.3](#).

The Academic Council may consider and approve the same.

Resolution:

After deliberations, the agenda item was approved for implementation from the Academic Year 2022-23.

SCHOOL OF COMPUTER, INFORMATION AND MATHEMATICAL SCIENCES
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Item 19.10

To consider and approve the recommendations of the Board of Studies of the Department of Computer Science and Engineering.

Item 19.10.1

To consider and approve the syllabi of (V - VIII sem. core courses and professional elective courses) B.Tech. programmes viz. B.Tech. CSE, B.Tech. (Artificial Intelligence and Data Science), B.Tech. CSE (IOT) and B. Tech CSE (Cyber Security) under Regulations R 2021

Note to Agenda:

The major revisions in curriculum of B.Tech. Computer Science and Engineering, B.Tech. (Artificial Intelligence and Data Science), B.Tech. CSE(IoT) and B.Tech. CSE (Cyber Security) under Regulations 2021 and syllabi of (I - IV sem.) courses were approved in the 17th& 18th meeting of Academic Council respectively. In the 20th meeting of Board of Studies of Computer Science and Engineering Department, which was held on 16th August 2022, the syllabi of (V - VIII sem. core courses and professional elective courses) of programmes viz. B.Tech. Computer Science and Engineering, B.Tech. (Artificial Intelligence and Data Science), B.Tech. CSE(IoT) and B.Tech. CSE (Cyber Security) under Regulations 2021 were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The salient features of the above programmes with respect to “Introduction of New Courses” and “Courses with Syllabus revisions” are as follows:

A. B.Tech. CSE

I. Semester V - VIII

a) New courses (proposed): Academic Year 2023-24 & Academic Year 2024-25

Course Code	Course Title	Credits
CSD3101	Internet and Web Programming	3
CSD 3102	Artificial Intelligence Techniques	3
CSD 3104	Data Mining and Data Warehousing	3
CSD 3105	Internet and Web programming Laboratory	1
CSD 3106	Artificial Intelligence and Machine Learning Laboratory	1
CSD 3106	Artificial Intelligence and Machine Learning Laboratory	1
CSD 3201	Big Data and Cloud Computing	4
CSD 4101	Blockchain Technology	3
CSDX 102	Distributed Computing	3
CSDX 109	Software metrics and testing	3

CSDX 113	Foundations of Data Science	3
CSDX 227	Cloud Security	3
CSDX 232	Software Integration and Maintenance	3
CSDX 235	High performance computer architecture	3
CSDX 236	Natural Language processing	3
CSDX 122	Quantum Computing	3
CSDX 127	Web hacking and Security	3
CSDX 136	Programming in Data Science with Python	3
CSDX 139	Micro services architecture (DevOps & Kubernetes)	3
CSDX 141	Dockers and Containers	3
CSDX 142	AI Chat bot application	3

b) Courses with syllabus revisions (proposed): Academic Year 2023-24 & Academic Year 2024-25

Course Code	Course Title	Credits	Revision (%)
CSC 2213	Network Security and Cryptography	4	20%
CSC 4102	Compiler Design	3	10%
CSC 4104	Compiler Laboratory	1	20%
CSC 3215	Mobile Application Development Laboratory	1	20%
CSDX 101	Queuing Theory	3	10%
CSDX 103	Cyber Laws and Ethics	3	10%
CSDX 104	Virtualization Techniques	3	10%
CSDX 105	XML and Web Services	3	8%
CSDX 106	Open-Source Technologies	3	10%
CSDX 107	Image processing	3	10%
CSDX 108	Computer Vision	3	9%
CSDX 110	Software Requirements and Modelling	3	10%
CSDX 111	Foundation on Robotics	3	8%
CSDX 112	Statistics and analytics using R programming	3	10%
CSDX 114	Theory of Computation	3	10%

CSDX 221	Routing Protocols	3	10%
CSDX 222	Intrusion Detection and Prevention	3	10%
CSDX 223	Internet of Things	3	20%
CSDX 224	Secure Interconnecting systems	3	10%
CSDX 225	Full Stack mobile application development I(Front end)	3	10%
CSDX 226	Web analytics and social media mining	3	10%
CSDX 228	Advanced Computer Graphics	3	6%
CSDX 229	Human Computer Interaction	3	10%
CSDX 230	User Interface Design	3	12%
CSDX 231	Software Quality Assurance	3	10%
CSDX 233	Gaming Technology	3	10%
CSDX 234	Cognitive Science	3	10%
CSDX 237	Multicore Architecture	3	12%
CSDX 238	Service Oriented Architecture	3	10%
CSDX 121	Graph Theory and its Application	3	40%
CSDX 123	Green Computing	3	10%
CSDX 124	Security Evaluation and Assessment Methodology	3	10%
CSDX 125	5G Wireless communication Techniques	3	10%
CSDX 126	Full Stack mobile application development II (Back end)	3	13%
CSDX 128	Social Media Security	3	10%
CSDX 129	Multimedia security	3	10%
CSDX 130	Multimedia Communication and Networking	3	10%
CSDX 131	API Design	3	10%
CSDX 132	AAIP – Animation with Portfolio Development	3	10%
CSDX 133	Mobile Multimedia Systems	3	10%
CSDX 134	Software Project Management	3	10%
CSDX 135	Enterprise Resource Planning	3	10%
CSDX 137	Genetic Algorithm	3	10%
CSDX 138	Advanced SAS: Macros & SQL	3	10%
CSDX 140	Advanced Game Design	3	10%

B. B.Tech. (Artificial Intelligence and Data Science)

I. Semester V - VIII

a) New Courses (proposed): Academic Year 2023-24 & Academic Year 2024-25

Course Code	Course Title	Credits
CSDX 523	Reinforcement Learning	3

b) Courses with syllabus revisions (proposed): Academic Year 2023-24 & 2024-25

Course Code	Course Title	Credits	Revision (%)
CSD 3151	Data and Network Security	3	40
CSD 3152	Artificial Neural Networks	3	100
CSD 3153	Cloud Computing Services	3	90
CSD 3154	Data Visualization	3	100
CSD 3155	Pattern Recognition	3	20
CSD 3156	Machine Learning Techniques	4	100
CSD 3157	Machine Learning Laboratory	1	20
CSD 3158	Data Visualization Laboratory	1	20
CSD 3251	Data Analytics	3	20
CSD 3252	IoT and Applications	3	100
CSD 3253	Exploratory Data Analysis	3	100
CSD 3254	Natural Language Processing	3	100
CSD 3255	Data Analytics Laboratory	1	20
CSD 3256	Mobile Application Laboratory	1	20
CSDX 502	Intelligent Information Retrieval	3	20
CSDX 503	Advanced Python for Data science	3	25
CSDX 508	Secure Cloud Computing	3	20
CSDX 509	Security Risk Assessment and Management	3	20
CSDX 511	Cyber Crime and Computer Ethics	3	20
CSDX 515	Applied Machine Learning	3	20
CSDX 519	Process Automation	3	20
CSDX 521	Advanced Artificial Intelligence Systems	3	20
CSDX 524	Web and Social media mining	3	20
CSDX 525	Digital Image Processing	3	25
CSDX 527	Automata Theory	3	20

CSDX 501	Graph Theory and its Applications in Data Science	3	5
CSDX 506	Business Intelligence	3	5
CSDX 513	Database Security and Auditing	3	5
CSDX 514	Computer Security	3	10
CSDX 516	Expert System	3	5
CSDX 517	Robotics and Intelligent Systems	3	5
CSDX 518	Agent Based Intelligent System	3	5
CSDX 520	Human and Intelligent Systems	3	5
CSDX 522	Block Chain	3	5
CSDX 526	Ethics in Data Science	3	5
CSDX 528	Biometric Systems	3	5

C. B.Tech. CSE (IOT)

I. Semester V - VIII

a) Courses with Syllabus revision (proposed): Academic Year 2023-24 & 2024-25

Course Code	Course Title	Credits	Revision (%)
CSD 3141	IoT architecture and protocols	4	20%
CSD 3241	Privacy and security in IoT	3	20%
CSD 3242	Mobile Application Development for IoT laboratory	1	100%
CSD X 351	IoT in health care	3	20%
CSD X 352	Wearable Computing	3	20%
CSD X 353	Smart sensor Technologies	3	20%
CSD X 354	Open Source Programming for IoT	3	100%
CSD X 355	Biometric Security and IoT	3	20%
CSD X 356	Block Chain Technology in IoT	3	30%
CSD X 357	Analytics for the Internet of Things	3	20%
CSD 4141	Industrial IoT	3	20%
CSD X 451	Edge and Fog computing in IoT	3	20%
CSD X 452	Wireless and Cellular IoT	3	20%
CSD X 453	Software Defined Networks for IoT	3	20%
CSD X 454	Quantum IoT	3	30%

D. B.Tech. CSE (Cyber Security)

I. Semester V- VIII

a) New Courses (Proposed): Academic Year 2023-24 & 2024-25

Course Code	Course Title	Credits
CSD 3133	Web and Mobile Application Security	3
CSD3134	Web and Mobile Application Security Laboratory	1
CSD 3235	Ethical Hacking	3
CSD 3236	Intrusion Detection and Internet Security	3
CSD 3237	Ethical Hacking Laboratory	1
CSD 3238	Intrusion Detection and Internet Security Laboratory	1
CSD 4139	Contingency Planning and Disaster Recovery	3

b) Courses with Syllabus revision (proposed): Academic Year 2023-24 & 2024-25

Course Code	Course Title	Credits	Revision (%)
CSD X 301	Agile Software Development	3	5%
CSD X 303	Malware Analysis	3	5%
CSD X 305	Secure Software Development Life Cycle	3	5%
CSD X 408	Information Security Intelligence and Compliance Analytics Using Big Data	3	5%
CSD X 409	Penetration Testing and Vulnerability Assessment	3	10%
CSD X 412	Cloud Security	3	5%
CSD X 307	Security in Industry 4.0	3	5%
CSD X 309	Operating System Security	3	5%

The Curriculum and syllabi of the courses (V -VIII sem. core courses and professional elective courses) of programmes viz. B.Tech. Computer Science and Engineering, B.Tech. (Artificial Intelligence and Data Science), B.Tech. CSE(IoT) and B.Tech. CSE (Cyber Security) under Regulations 2021 are given in Annexure [19.10.1 \(a\)](#), [19.10.1\(b\)](#), [19.10.1\(c\)](#) and [19.10.1\(d\)](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.10.2

To consider and approve the syllabi of VII semester core and elective courses of B.Tech. (Artificial Intelligence and Data Science) under R 2017.

Note to Agenda:

In the 20th meeting of Board of Studies of Computer Science and Engineering Department, which was held on 16th August 2022, the syllabi of the VII semester core and elective courses of B.Tech. (Artificial Intelligence and Data Science) under R 2017 were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The salient features with respect to “Introduction of New Courses” is as follows:

New courses (proposed): Academic Year 2023-24

Course Group	Course Code	Course Title	Credits
PE	CSCX 513	Database Security & Auditing	3
PE	CSCX 514	Block Chain	3
PE	CSCX 515	Ethics in Data Science	3
PE	CSCX 516	Computer Security	3
PE	CSCX 518	Expert System	3
PE	CSCX 519	Robotics & Intelligent Systems	3
PE	CSCX 520	Agent Based Intelligent System	3
PE	CSCX 522	Biometric Systems	3
PE	CSCX 523	Human and Intelligent Systems	3
PE	CSCX 524	Graph Theory and its Applications in Data Science	3
PE	CSCX 525	Business Intelligence	3
EC	CSC 4154	Model Deployment Lab	1
EC	CSC 4155	Internship	1

The syllabi of the VII semester core and elective courses of B.Tech. (Artificial Intelligence and Data Science) are enclosed in [Annexure 19.10.2](#).

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.10.3

To consider and approve the syllabi of the elective courses (III sem.) of M.Tech (AI & DS) under R 2019.

Note to Agenda:

In the 20th meeting of Board of Studies of Computer Science and Engineering Department, which was held on 16th August 2022, the elective courses (III sem.) offered to M.Tech. (AI & DS) under R 2019 were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The salient features of the elective courses of M.Tech. (AI & DS) under R 2019 with respect to “Introduction of New Courses” are as follows:

New courses introduced: Academic Year 2022-23

Course Code	Course Title	Credits
CSDY 313	Pattern Recognition for Machine Learning	3
CSDY 314	Advanced Machine Learning	3
CSDY 315	Risks and Decision Making for Data Science and Artificial Intelligence	3
CSDY 316	Robotics and Intelligent Systems	3
CSDY 317	Computer Vision using Machine Learning	3
CSDY 318	Artificial Intelligence for Medicine	3
CSDY413	Ethics for Data Science	3
CSDY414	Social Network Analysis and Mining	3

The syllabi of the elective courses (III sem) of M.Tech (AI & DS) are given in [Annexure 19.10.3](#).

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.10.4

To consider and approve the Curriculum and Syllabi of M.Tech (CSE) under Regulations 2022 and M.Tech (Artificial Intelligence and Data Science) under R 2022.

Note to Agenda:

The Institution follows the best practice of effecting major revision in curriculum and syllabi of M.Tech. Programmes once in three years considering the dynamic changes in the industry, introduction of new technology and techniques, emerging trends, employment opportunities and feedback from stakeholder's viz., students, parents, faculty, alumni and employers. This is in addition to the revision in curriculum and syllabi of programmes facilitated once in six months.

In the 20th meeting of Board of Studies of Computer Science and Engineering Department, which was held on 16th August 2022, the curriculum and syllabi M.Tech (CSE) and M.Tech (Artificial Intelligence and Data Science) under R2022 were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The Salient features of M.Tech (CSE) and M.Tech (Artificial Intelligence and Data Science) curriculum under R 2022 with respect to "Introduction of New courses" and "Courses with Syllabus revisions" are as follows:

A. M.Tech (CSE)

I. Semester I & II

a) New courses introduced: Academic Year 2022-23

Course Code	Course Title	Credits
MAE 6181	Applied Algebra and Discrete Algorithms	4
CSE 6101	Multicore Computer Architecture	3
CSE 6103	Advanced Computer Networks	3
CSE 6104	Operating System	3
CSE 6201	Machine Learning Techniques	3
CSE 6202	Optimization Algorithms & Applications	3
CSE 6203	Advanced Software Engineering & Agile Modelling	3

CSEY 004	Advanced Database Management	3
CSEY 009	Advanced Software Quality Assurance	3
CSEY 019	Distributed Systems	3
CSEY 020	Advanced Graph Theory	3

II. Semester III & IV

a) New courses (proposed): Academic Year 2023-24

Course Code	Course Title	Credits
CSEY 022	Computer Vision & Image Processing	3
CSEY 023	Foundations of Block Chain Technology	3
CSEY 024	Cyber laws and Intellectual Property Rights	3
CSEY 025	Security of E-Based Systems	3
CSEY 026	Advanced Software Project Management	3
CSEY 027	Statistical Natural Language Processing	3

B. M.Tech (AI&DS)

I. Semester I & II

a) New courses introduced: Academic Year 2022-23

CourseCode	Course Title	Credits
CSE 6223	Scalable Algorithms for Data Science	3

b) Courses with Syllabus revisions: Academic Year 2022-23

Course Code	Course Title	Credits	Revision (%)
CSD 6122	Artificial Intelligence in Data Mining	3	13%

The curriculum and syllabi of M.Tech (CSE) and M.Tech (Artificial Intelligence and Data Science) under R 2022 are enclosed in Annexure [19.10.4 \(a\)](#) and [19.10.4\(b\)](#).

The Academic Council may consider and approve the same for implementation from the

Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.10.5

To consider and ratify the revision in PEOs of B.Tech. (CSE), B.Tech. (Artificial Intelligence and Data Science), B.Tech CSE (IoT), B.Tech CSE (Cyber Security) under Regulations 2021

Note to Agenda:

The revised PEOs of programmes viz. B.Tech. (CSE), B.Tech. (Artificial Intelligence and Data Science), B.Tech CSE (IoT), B.Tech CSE (Cyber Security) under Regulations 2021 was deliberated in the 20th meeting of Board of Studies of Computer Science and Engineering Department, which was held on 16th August 2022. After deliberations, the Board has recommended the same for ratification in the Academic council.

The revised PEOs of programmes; B.Tech. (CSE), B.Tech. (Artificial Intelligence and Data Science), B.Tech CSE (IoT) and B.Tech CSE (Cyber Security) under Regulations 2021 are given in [Annexure 19.10.5](#).

The Academic Council may consider and ratify the same with effect from the Academic Year 2021-22.

Resolution:

After deliberations, the agenda item was ratified with effect from the Academic Year 2022-23.

DEPARTMENT OF INFORMATION TECHNOLOGY

Item 19.11

To consider and approve the recommendations of the Board of Studies of the Department of Information Technology.

Item 19.11.1

To consider and approve the curriculum and syllabi of M.Tech. Information Technology under Regulations 2022.

Note to Agenda:

The Institution follows the best practice of effecting major revision in curriculum and syllabi of M.Tech. Programmes once in three years considering the dynamic changes in the industry, introduction of new technology and techniques, emerging trends, employment opportunities and feedback from stakeholder's viz., students, parents, faculty, alumni and

employers. This is in addition to the revision in curriculum and syllabi of programmes facilitated once in six months.

In the 16th meeting of Board of Studies of Information Technology Department, which was held on 18th August 2022, the curriculum and syllabi of M.Tech. Information Technology, under R 2022 was deliberated. After deliberations, the Board has recommended the same for approval in the Academic Council.

The salient features of M.Tech. Information Technology under R 2022 with respect to “Introduction of New courses” and “Courses with Syllabus revisions” are as follows:

I. Semester I & II (AY 2022-2023)

a) New core courses introduced

Course Code	Course Title	Credits
CSE 610	Multicore Computer Architecture	3
ITE 6202	Machine Learning Algorithms	4
ITE 6203	Machine Learning Lab	1
ITE 6204	Cloud Middleware Tools	1

b) New Elective courses introduced

Course Code	Course Title	Credits
ITEY 205	Cloud Services	3
ITEY 206	Cloud Security	3
ITEY 207	Web Design & Management	3
ITEY 208	Information Visualization Techniques	3
ITEY 209	Agile Software Development	3
ITEY 210	DevOps	3
ITEY 211	Computer Vision	3
ITEY 212	Image and Video Analytics	3

c) Elective Courses with Syllabus revisions

Course Code	Course Title	Credits	Revision (%)
ITEY 101	Computer Forensics and Information Security	3	50%
ITEY 204	Applied Cryptography	3	20%

II. Semester III & IV

a) New courses (proposed): Academic Year 2023-24

Course Code	Course Title	Credits
ITEY 113	Text, Web and Social Media Analytics	3
ITEY 119	Analytics of Things	3

b) Elective Courses with syllabus revisions (proposed): Academic Year 2023-24

Course Code	Course Title	Credits	Revision (%)
ITEY 111	Deep Learning	3	20%
ITEY 115	Software Project Management	3	20 %
ITEY 117	Green Computing Technology	3	30%

The curriculum and syllabi of M.Tech. Information Technology under R 2022 are given in [Annexure 19.11.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2022-2023.

Discussions:

The expert members suggested to explore offering courses related to cloud services and cloud security as core courses after deliberations in the upcoming BOS of department of Information Technology.

Resolution:

After deliberations, the agenda item was approved.

Item 19.11.2

To consider and approve the syllabi (V - VIII sem. core courses and professional electives) of B.Tech. Information Technology under Regulations 2021.

Note on Agenda:

The major revisions in curriculum of B.Tech. Information Technology under Regulations 2021 and syllabi of (I – IV semester) courses were approved in the 17th & 18th meeting of Academic Council respectively. In the 16th meeting of Board of Studies of Information Technology Department, which was held on 18th August 2022, the syllabi of (V - VIII sem. core courses and professional electives) of B.Tech. Information Technology under Regulations 2021 was deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The salient features of B.Tech. Information Technology curriculum under R 2021 with respect to “Introduction of New courses” and “Courses with Syllabus revisions” are as follows:

I. Semester V & VI

a) New courses introduced:

i) Core courses (proposed): Academic Year 2023-24

Course Code	Course Title	Credits
ITD 3103	MEAN Stack Web Development	3

ii) Elective courses (proposed): Academic Year 2023-24

ITDX06	Swift Programming	3
ITDX07	Introduction to NoSQL Databases	3
ITDX08	Computational Intelligence	3
ITDX12	E-Commerce and Digital Marketing	3
ITDX32	GPU Architecture and Programming	3
ITDX52	Predictive Analytics	3
ITDX53	Mathematical Foundation for Data Sciences	3
ITDX54	Data Science Using Python	3
ITDX63	Virtualization Techniques	3
ITDX64	Fog Computing	3
ITDX65	Cloud Services and Platforms	3
ITDX11	Introduction to DevOps	3

b) Courses with syllabus revisions:

i) Core courses (proposed): Academic Year 2023-24

Course Code	Course Title	Credits	Revision (%)
ITD 3104	AI and Machine Learning	4	50%
ITD 3201	Software Testing	3	20%
ITD 3202	Cloud Computing Technologies	3	30%

ii) Elective Courses (proposed): Academic Year 2023-24

ITDX 09	Natural Language Processing	3	20%
ITDX 10	C# and .NET Framework	3	90%

ITDX 28	Wireless Network	3	50%
ITDX 42	Programming in R	3	60 %
ITDX 44	Data Mining Techniques and Tools	3	20%
ITDX 46	Soft Computing	3	40%
ITDX 62	Distributed Computing	3	30%
ITDX 72	Security Analyst Fundamentals	3	90%

II. Semester VII & VIII

a) New Elective courses (proposed): Academic Year 2024-25

ITDX 17	Agile Methodologies	3
ITDX 19	Functional Programming	3
ITDX 31	Python for IoT	3
ITDX 32	GPU Architecture and Programming	3
ITDX 33	Software Defined Networks	3
ITDX 47	Analytics of Things	3
ITDX 49	Scalable Data Science	3
ITDX 50	Deep Learning	3
ITDX 51	Computer Vision and Image Processing	3
ITDX 52	Predictive Analytics	3
ITD3106	Internship	1
GEDX 121	Introduction to Artificial Intelligence	3
GEDX 114	Fundamentals of Data Science and Machine Learning	3

b) Core Courses with syllabus revisions (proposed): Academic Year 2024-25

Course Code	Course Title	Credits	Revision (%)
ITD 4101	Internet of Things	3	50%

c) Elective Courses with syllabus revisions (proposed): Academic Year 2024-25

ITDX 14	Virtual Reality	3	90%
ITDX 18	Game Theory	3	80%
ITDX 62	Distributed Computing	3	30%
ITDX 76	Cyber Forensics	3	90%

The Curriculum and syllabi of the courses (V - VIII sem. core and professional elective courses) of B.Tech. Information Technology under R 2021 are given in [Annexure](#)

19.11.2.

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

DEPARTMENT OF COMPUTER APPLICATIONS

Item 19.12

To consider and approve the recommendations of Board of Studies of the Department of Computer Applications

Item 19.12.1

To consider and approve the revision in curriculum of BCA under Regulations 2021 with the introduction of specializations on “Cyber Security” and “Artificial Intelligence”.

Note to Agenda:

The introduction of courses pertaining to new specializations on “Cyber security” and “Artificial Intelligence” in the curriculum of BCA under Regulations 2021 was presented in the 17th meeting of Board of Studies of Department of Computer Applications held on 1st June 2022 by considering the needs of the Industry. This necessitates revision in curriculum of III – VI semester of BCA under Regulations 2021. After deliberations the BOS recommended the revision in curriculum and syllabi of new specialization courses on “Cyber security” and “Artificial Intelligence” in the curriculum of BCA under Regulations 2021 for approval in the Academic Council.

The salient features of the curriculum of BCA R 2021 due to the introduction of new specializations are:

I. Semester III & IV

a) Introduction of New courses (proposed): Academic Year 2023-24

Course Code	Course Title	Credits
CADX103	Introduction to Artificial Intelligence (AI)	3
CADX 122	Introduction to Cyber security(CS)	3
CADX 219	Introduction to Machine Learning Techniques (AI)	3
CADX 220	Digital Image Processing (AI)	3
CADX 221	Knowledge Engineering (AI)	3

CADX 224	Ethical Hacking (CS)	3
CADX 225	Web Application Security (CS)	3
CADX 226	Cryptography and Network Security (CS)	3
CADX 222	Digital Processing Laboratory(AI)	2
CADX 227	Ethical Hacking Lab (CS)	2

II. Semester V & VI

a) Introduction of New courses (proposed): Academic Year 2024-25

Course Code	Course Title	Credits
CAD 3102	Full Stack Development	3
CADX 123	Introduction to Deep Learning Techniques (AI)	3
CADX 124	Computer Vision (AI)	3
CADX 125	Natural Language Processing (AI)	3
CADX 129	Information Security Fundamentals (CS)	3
CADX 130	Block Chain Technology (CS)	3
CADX 126	Computer Vision Laboratory (AI)	2
CADX 127	Natural Language Processing Laboratory (AI)	2
CADX 131	Information Security Laboratory (CS)	2
CADX 223	Intelligent Systems (AI)	3
CADX228	Cyber Law (CS)	3

The revised curriculum and syllabi of new specialization courses on “Cyber Security “ and “Artificial Intelligence” under R 2021 are given in [Annexure 19.12.1](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.12.2

To consider and approve the curriculum and syllabi of MCA under Regulations 2022.

Note on Agenda:

The Institution facilitates changes in curriculum and syllabi of programmes once in six months. The MCA programme under Regulations 2019 went through many changes considering the dynamic changes in the industry, emerging trends, employment opportunities and feedback from stakeholder's viz., students, parents, faculty, alumni and employers. In this context, the curriculum and syllabi of MCA under Regulations 2022 was deliberated in the 17th meeting of BOS of Computer Application department. The board has approved the existing curriculum and syllabi by postponing the incorporation of changes or modifications in the near future.

The curriculum and syllabi of MCA (with new course codes) under R 2022 are given in [Annexure 19.12.2](#).

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

DEPARTMENT OF MATHEMATICS AND ACTUARIAL SCIENCE

Item 19.13

To consider and approve the recommendations of the Board of Studies of Department of Mathematics and Actuarial Science

Item 19.13.1

To consider and approve the syllabus of course “MAD 2183 Numerical Methods for Integration and Differential Equations” for B.Tech. Civil Engineering under R 2021.

Note on Agenda:

In the 14th meeting of Board of Studies of Department of Mathematics and Actuarial Science, which was held on 30th June 2022, the syllabus of the course “MAD 2183 Numerical Methods for Integration and Differential Equations” offered to III Semester B.Tech. Civil Engineering under R 2021 was deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The syllabus of the course “MAD 2183 Numerical Methods for Integration and Differential Equations” is given in [Annexure 19.13.1](#).

The Academic Council may consider and approve the same for implementation from

the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.13.2

To consider and approve the curriculum and syllabi of M.Sc. Actuarial Science under Regulations 2022.

Note on Agenda:

The Institution follows the best practice of effecting major revision in curriculum and syllabi of M.Sc. Programmes once in three years considering the dynamic changes in the industry, introduction of new technology and techniques, emerging trends, employment opportunities and feedback from stakeholder's viz., students, parents, faculty, alumni and employers. This is in addition to the revision in curriculum and syllabi of programmes facilitated once in six months.

In the 14th meeting of Board of Studies of Department of Mathematics and Actuarial Science, which was held on 30th June 2022, the curriculum and syllabi of M.Sc. Actuarial Science under R 2022 was deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The Salient features of M.Sc. Actuarial Science curriculum under R 2022 with respect to "Introduction of New courses" and "Courses with Syllabus revisions" are as follows:

I. Semester I & II

a) Courses with Syllabus revision: Academic Year 2022-23

Course Code	Course Title	Credits	Revision (%)
MAE 6101	Fundamentals of financial mathematics	4	25%
MAE 6102	Probability and distributions	4	25%
MAE 6103	Business economics	4	40%
MAE 6104	Financial reporting and accounting	4	30%
MAE 6105	Principles of insurance	2	30%
MAE 6106	Actuarial computational laboratory (ms-excel)	2	50%
MAE 6201	Applications of financial mathematics	4	30%
MAE 6202	Fundamentals of life contingencies	4	30%
MAE 6203	Descriptive statistical methods in actuarial science	4	40%
MAE 6204	Stochastic models	3	40%

MAE 6205	Mathematical statistics	4	25%
MAE 6206	R – programming	2	50%
	Value added course		-

II. Semester III & IV

a) **New courses (proposed): Academic Year 2024-25**

Course Code	Course Title	Credits
MAE 7105	Actuarial computational laboratory (python)	2
MAEY 04	Mortality projection & machine learning	3

b) **Courses with syllabus revisions (proposed): Academic Year 2024-25**

Course Code	Course Title	Credits	Revision (%)
MAE 7101	Applications of life contingencies	4	20%
MAE 7102	Financial economics	4	20%
MAE 7103	Applied statistical methods in actuarial science	4	30%
MAE 7104	Survival models	4	30%

The Curriculum and syllabi of the courses of M.Sc. Actuarial Science under R 2022 are given in [Annexure 19.13.2](#).

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the above item was approved.

Item 19.13.3

To consider and approve the change in title of course “MAD 1284 Statistics” to “MAD 1284 Probability and Statistics”.

Note on Agenda:

The change in title of the course from “MAD 1284 Statistics” to “MAD 1284 Probability and Statistics” which is offered to B. Tech Artificial Intelligence and Data Science under Regulations 2022 was deliberated in the 14th meeting of Board of Studies of Department of Mathematics and Actuarial Science, which was held on 30th June 2022. After deliberations the board has recommended the same for approval in the Academic council

considering the components in the syllabus.

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations the agenda item was approved.

Item 19.13.4

To consider and approve the courses offered by Department of Mathematics and Actuarial Science for M.Tech. and M.C.A. Programmes under Regulations 2022.

Note to Agenda:

The Department of Mathematics and Actuarial Science is offering various courses for M.Tech. and M.C.A. Programmes under Regulations 2022 to cater the needs. This was deliberated in the 14th meeting of Board of Studies of Department of Mathematics and Actuarial Science, which was held on 30th June 2022; and the board has recommended the same for approval in the Academic council.

The details of courses offered to M.Tech. and M.C.A. programmes under R 2022 are as follows:

I. M.Tech. Programmes

Semester I & II

i) Courses with Syllabus revisions: Academic Year 2022-23

Course Code	Course Title	Credits	Revision (%)
MAE 6181	Applied algebra and discrete algorithms	4	30%
MAE 6182	Differential equations and numerical methods	4	30%
MAE 6183	Probability and statistics	4	30%
MAE 6184	Probability and matrix theory	4	40%
MAE 6185	Advanced applied mathematics for avionics engineering	4	40%
MAE 6189	Statistical methods for data science	4	30%

II. M.C.A. Program

Semester I & II

i) Courses with Syllabus revisions: Academic Year 2022-23

Course Code	Course Title	Credits	Revision (%)
MAE 6188	Mathematical Foundation For Computer Applications	4	40%

The curriculum and syllabi of the courses offered to M.C.A. and M.Tech. programmes under R 2022 are given in [Annexure 19.13.4](#).

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

SCHOOL OF LIFE SCIENCES

Item 19.14

To consider and approve the recommendations of the Board of Studies of the School of Life Sciences.

Item 19.14.1

To consider and approve the curriculum and syllabi of M.Tech. Biotechnology under Regulations 2022.

Note on Agenda:

The Institution follows the best practice of effecting major revision in curriculum and syllabi of M.Tech. Programmes once in three years considering the dynamic changes in the industry, introduction of new technology and techniques, emerging trends, employment opportunities and feedback from stakeholder's viz., students, parents, faculty, alumni and employers. This is in addition to the revision in curriculum and syllabi of programmes facilitated once in six months.

In the 9th meeting of Board of Studies of School of Life Sciences, which was held on 20th August 2022, the curriculum and syllabi of M.Tech. Biotechnology under R 2022 was deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The Salient features of M.Tech. Biotechnology curriculum under R 2022 with respect to "Introduction of New courses" and "Courses with Syllabus revisions" are as follows:

I. Semester I & II

a) New courses introduced: Academic Year 2022-23

Course Code	Course Title	Credits
LTE 6102	Advanced Biochemistry and Metabolic Regulation	3

LTE 6202	Bioprocess and Fermentation Technology	3
LTEY022	Structural Biology	4
LTEY023	Bio-catalysis and Enzyme Reaction	3
LTEY025	Aromatic and Medicinal Plants	4
LTEY026	Functional Foods and Nutraceuticals	3
LTEY 027	Food Processing technology	3
LTEY 028	Industrial and Pharmaceutical Technology	3
LTEY 031	Dairy Technology	3
LTEY 032	Tissue Engineering and regenerative Medicine	3

b) Courses with Syllabus revisions: Academic Year 2022-23

Course Code	Course Title	Credits	Revision (%)
LTE 6104	Microbial Biotechnology	3	20
LTE 6105	Cell and Molecular Biology	3	20
LTE 6106	Lab I (Biochemistry/Immunotechnology / Microbial Biotechnology)	2	30
LTE 6201	Genomics and Proteomics	3	20
LTE 6203	Computational Biology	4	20
LTE 6204	Lab II (Fermentation Technology / Computational Biology)	2	30
LTEY024	Biomedical Instrumentation Technology	3	20

II. Semester III & IV

a) Introduction of New courses (proposed): Academic Year 2023-24

Course Code	Course Title	Credits
LTEY034	Regulatory Affairs in Biotechnology	3
LTEY035	Biosensors and Biochips	3
LTEY036	Ethical Issues in Biotechnology and Engineering	3

b) Course with syllabus revisions (proposed): Academic Year 2023-24

Course Code	Course Title	Credits	Revision (%)
LTE 7102	Lab III (Plant and Animal Biotechnology)	1	30

The curriculum and syllabi of M.Tech. Biotechnology under R 2022 are given in [Annexure 19.14.1.](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.14.2

To consider and approve the curriculum and syllabi of M.Tech. Food Biotechnology under Regulations 2022.

Note on Agenda:

The Institution follows the best practice of effecting major revision in curriculum and syllabi of M.Tech. Programmes once in three years considering the dynamic changes in the industry, introduction of new technology and techniques, emerging trends, employment opportunities and feedback from stakeholder's viz., students, parents, faculty, alumni and employers. This is in addition to the revision in curriculum and syllabi of programmes facilitated once in six months.

In the 9th meeting of Board of Studies of School of Life Sciences, which was held on 20th August 2022, the curriculum and syllabi of M.Tech. Food Biotechnology under R 2022 was deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The Salient features of M.Tech. Food Biotechnology curriculum under R 2022 with respect to "Introduction of New courses" and "Courses with Syllabus revisions" are as follows:

I. Semester I & II

b) Courses with Syllabus revisions: Academic Year 2022-23

Course Code	Course Title	Credits	Revision (%)
LTE 6111	Chemistry of Foods	4	20
LTE 6112	Advanced Nutritional Biochemistry	4	20
LTE 6113	Modern Food Microbiology	3	20
LTE 6101	Applied Biostatistics Biotechnologists	4	20
LTE 6114	Lab I (Nutritional Biochemistry/ Food Microbiology)	2	30

LTE 6212	Applied Food Biotechnology	4	20
LTE 6211	Technology in Food Packaging	4	20
LTE 6213	Lab II (Food Packaging/ Applied Food Biotechnology)	2	30

II. Semester III & IV

a) Courses with syllabus revisions (proposed): Academic Year 2023-24

Course Code	Course Title	Credits	Revision (%)
LTE 7112	Lab III (Enzymes in Food Industry)	1	30
LTE 7111	Applications of Enzymes in Food Industry	3	20

The curriculum and syllabi of M.Tech. Food Biotechnology under R 2022 is given in [Annexure 19.14.2](#).

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.14.3

To consider and approve the curriculum and syllabi of M.Sc. Biotechnology under Regulations 2022.

Note on Agenda:

The Institution follows the best practice of effecting major revision in curriculum and syllabi of M.Sc. Programmes once in three years considering the dynamic changes in the industry, introduction of new technology and techniques, emerging trends, employment opportunities and feedback from stakeholder's viz., students, parents, faculty, alumni and employers. This is in addition to the revision in curriculum and syllabi of programmes facilitated once in six months.

In the 9th meeting of Board of Studies of School of Life Sciences, which was held on 20th August 2022, the curriculum and syllabi of M.Sc. Biotechnology under R 2022 was deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The Salient features of M.Sc. Biotechnology curriculum under R 2022 with respect to "Introduction of New courses" and "Courses with Syllabus revisions" are as follows:

I. Semester I & II

a) Introduction of New courses: Academic Year 2022-23

Course Code	Course Title	Credits
LSE 6101	Plant and Animal Physiology	3
LSE 6102	Biochemistry	4
LSE 6103	Principles of Microbiology	4
LSE 6203	Genetics	3
LSEY101	Biostatistics	3
LSEY105	Food Biotechnology	3
LSEY104	Medical Biotechnology	3

b) Courses with Syllabus revisions: Academic Year 2022-23

Course Code	Course Title	Credits	Revision (%)
LSE 6104	Cellular and Molecular Biology	4	20
LSE 6105	Lab I (Biochemistry/ Microbiology/ Cell and Molecular Biology)	2	30
LSE 6201	Bioinformatics	4	20
LSE 6202	Immunotechnology	3	20
LSE 6204	Lab II (Bioinformatics/Immunology/ Genetics)	2	30

II. Semester III & IV

a) New courses (proposed): Academic Year 2023-24

Course Code	Course Title	Credits
LSE 7101	Developmental Biology and Stem Cell Technology	3
LSE 7102	Ecology and Environmental Biotechnology	3
LSE 7103	Advanced Instrumentation	3
LSEY112	Medical Coding	3
LSEY113	Gene Manipulation	3

b) Courses with syllabus revisions (proposed): Academic Year 2023-24

Course Code	Course Title	Credits	Revision (%)
LSE 7104	Lab III (Stem cell Technology/ Environmental Biotechnology/ Advanced Instrumentation)	2	30

The curriculum and syllabi of M.Sc. Biotechnology under R 2022 are given in [Annexure 19.14.3.](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.14.4

To consider and approve the curriculum and syllabi of M.Sc. Microbiology under Regulations 2022.

Note on Agenda:

The Institution follows the best practice of effecting major revision in curriculum and syllabi of M.Sc. Programmes once in three years considering the dynamic changes in the industry, introduction of new technology and techniques, emerging trends, employment opportunities and feedback from stakeholder's viz., students, parents, faculty, alumni and employers. This is in addition to the revision in curriculum and syllabi of programmes facilitated once in six months.

In the 9th meeting of Board of Studies of School of Life Sciences, which was held on 20th August 2022, the curriculum and syllabi of M.Sc. **Microbiology** under R 2022 was deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The Salient features of M.Sc. **Microbiology** curriculum under R 2022 with respect to "Introduction of New courses" and "Courses with Syllabus revisions" are as follows:

I. Semester I & II

a) New courses introduced: Academic Year 2022-23

Course Code	Course Title	Credits
LSE 6121	Microbial Genetics	4
LSE 6103	Principles of Microbiology	4

LSE 6222	Bioprocess and Fermentation Technology	3
LSEY101	Biostatistics	3
LSEY121	Microbial Diversity and Extremophiles	3
LSEY122	Microbial Physiology and Metabolism	3
LSEY123	Parasitology	3
LSEY213	Host-microbe Interactions	3

b) Courses with Syllabus revisions: Academic Year 2022-23

Course Code	Course Title	Credits	Revision (%)
LSE 6104	Cell and Molecular Biology	4	20
LSE 6122	Lab I (Genetics/ Microbiology/ Cell and Molecular Biology)	2	30
LSE 6221	Environmental and Medical Microbiology	3	20
LSE 6202	Bioinformatics	4	20
LSE 6223	Lab II (Bioinformatics/ Medical Microbiology/ Fermentation Technology)	2	30

II. Semester III & IV

a) New courses (proposed): Academic Year 2023-24

Course Code	Course Title	Credits
LSEY132	Microbial Systems Biology	3
LSEY113	Gene Manipulation	3

b) Courses with syllabus revisions (proposed): Academic Year 2023-24

Course Code	Course Title	Credits	Revision (%)
LSE 7121	Industrial, Food and Agricultural Microbiology	4	20
LSE 7122	Immunology	4	20
LSE 7123	Lab III (Food and Agricultural Microbiology/Immunology)	2	30

The curriculum and syllabi of M.Sc. **Microbiology** under R 2022 are given in

[Annexure 19.14.4.](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.14.5

To consider and approve the curriculum and syllabi of M.Sc. Biochemistry and Molecular Biology under Regulations 2022.

Note on Agenda:

The Institution follows the best practice of effecting major revision in curriculum and syllabi of M.Sc. Programmes once in three years considering the dynamic changes in the industry, introduction of new technology and techniques, emerging trends, employment opportunities and feedback from stakeholder's viz., students, parents, faculty, alumni and employers. This is in addition to the revision in curriculum and syllabi of programmes facilitated once in six months.

In the 9th meeting of Board of Studies of School of Life Sciences, which was held on 20th August 2022, the curriculum and syllabi of M.Sc. **Biochemistry and Molecular Biology** under R 2022 was deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The Salient features of M.Sc. **Biochemistry and Molecular Biology Curriculum** under R 2022 with respect to "Introduction of New courses" and "Courses with Syllabus revisions" are as follows:

I. Semester I & II

a) New courses introduced: Academic Year 2022-23

Course Code	Course Title	Credits
LSE 6141	Biomolecules and Bioenergetics	4
LSE 6103	Principles of Microbiology	3
LSE 6201	Enzymes and Intermediary Metabolism	3
LSE 6202	Molecular Endocrinology	3
LSEY141	Plant Biochemistry	3
LSEY142	Nutritional Biochemistry	3
LSEY143	Molecular Physiology	3
LSEY221	Biochemistry of Signal Transduction and Regulation	3

b) Courses with Syllabus revisions: Academic Year 2022-23

Course Code	Course Title	Credits	Revision (%)
LSE 6104	Cell and Molecular Biology	4	20
LSE 6142	Lab I (Biomolecules/ Microbiology /Cell and Molecular Biology)	2	30
LSE 6241	Bioinformatics	4	20
LSE 6242	Lab II (Enzymes/ Bioinformatics)	2	30

II. Semester III & IV

a) New courses (proposed): Academic Year 2023-24

Course Code	Course Title	Credits
LSEY118	Forensic Science	3
LSEY119	Biology of Cancer and Stem Cells	4
LSEY112	Medical Coding	3

b) Courses with syllabus revisions (proposed): Academic Year 2023-24

Course Code	Course Title	Credits	Revision (%)
LSE 7141	Advanced Clinical Biochemistry	4	20
LSE 7122	Immunology	4	20
LSE 7143	Lab III (Clinical Biochemistry/ Immunology)	2	30

The Curriculum and syllabi of M.Sc. **Biochemistry and Molecular Biology** under R 2022 are given in [Annexure 19.14.5](#).

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

CRESCENT SCHOOL OF ARCHITECTURE

Item 19.15

To consider and approve the recommendations of the Board of Studies of Crescent School of Architecture.

Item 19.15.1

To consider and approve the curriculum and syllabi (III – X sem. Courses) of B.Arch. under Regulations 2021.

Note on Agenda:

The Institution follows the best practice of effecting major revision in curriculum and syllabi of B.Arch. Programme once in five years considering the dynamic changes in the industry, introduction of new technology and techniques, emerging trends, employment opportunities and feedback from stakeholder's viz., students, parents, faculty, alumni and employers. This is in addition to the revision in curriculum and syllabi of programmes facilitated once in six months.

In the 13th meeting of Board of Studies of B.Arch which was held on 23rd July and 10th September 2022, the syllabi of courses (III - X sem.) of B.Arch under R 2021 were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

I. Semester III & IV

a) New courses introduced: Academic Year 2022-23

Course Code	Course Title	Credits
AR D 2102	Surveying and Site Planning	3
AR D 2203	Building services- II	3

b) Courses with syllabus revisions: Academic Year 2022-23

Course Code	Course Title	Credits	Revision (%)
AR D 2104	Building Techniques & Technology – III	6	45 %
AR D 2204	Building Techniques & Technology - IV	6	45 %

The syllabi of the courses (III & X Semester) of B.Arch under Regulations 2021 are given in [Annexure 19.15.1](#).

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-2023.

Resolution:

After deliberations, the agenda item was approved.

Item 19.15.2

To consider and approve the syllabi of courses (III & IV sem.) of B.Des (Interior Architecture) under Regulations 2021.

Note to Agenda:

In the 7th meeting of Board of Studies of B. Des. which was held on 23rd July and 10th September 2022, the syllabi of courses (III & IV sem.) of B. Des. (Interior Architecture) under R 2021 were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

I. Semester III

a) New courses introduced: Academic Year 2022-23

Course Code	Course Title	Credits
IAD 2102	Design Medium III	5
IAD 2103	Design Product III	5

b) Courses with syllabus revisions: Academic Year 2022-23

Course Code	Course Title	Credits	Revision (%)
IAD 2101	Estimation & Costing	3	45%
IAD xxx	Strategies for Innovation Landscape in Interiors	3	45%

The syllabi of the courses (III & IV sem.) of B.Des. (Interior Architecture) under Regulations 2021 are given in [Annexure 19.15.2](#).

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

SCHOOL OF PHYSICAL AND CHEMICAL SCIENCES
DEPARTMENT OF PHYSICS

Item 19.16

To consider and approve the recommendations of Board of Studies of the Department of Physics.

Item 19.16.1

To consider and approve the curriculum and syllabi of M.Sc.(Physics) under Regulations 2022.

Note on Agenda:

The Institution follows the best practice of effecting major revision in curriculum and syllabi of M.Sc. Physics Programme once in three years considering the dynamic changes in the industry, introduction of new technology and techniques, emerging trends, employment opportunities and feedback from stakeholder's viz., students, parents, faculty, alumni and employers. This is in addition to the revision in curriculum and syllabi of programmes facilitated once in six months.

In the 12th meeting of Board of Studies of Physics Department, which was held on 30th June 2022, the curriculum and syllabi of M.Sc. under R 2022 was deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The Salient features of M.Sc. Physics curriculum under R 2022 with respect to "Introduction of New courses" and "Courses with Syllabus revisions" are as follows:

I. Semester I & II

a) New courses introduced: Academic Year 2022-23

Course Code	Course Title	Credits
PHE 6104	Analog, Digital Electronics and Instrumentation	4
PHE6105	Advanced Electronics Laboratory	2
PHE 6204	Materials Science Lab – I	2
PHE 6205	Optics and Thermal Lab	2

b) Courses with Syllabus revisions: Academic Year 2022-23

Course Code	Course Title	Credits	Revision (%)
PHE 6101	Classical Mechanics	4	80%

PHE 6201	Quantum Mechanics	4	50%
PHE 6202	Solid State Physics	3	70%
PHEY101	Crystal Growth Techniques	3	10%
PHEY102	Materials processing	3	10%
PHEY103	Materials Characterization	3	10%
PHEY104	Smart materials and structures	3	10%
PHEY105	Advanced Optics & Laser Technology	3	10%
PHEY106	Nonlinearoptics	3	10%
PHEY107	Optical Fiber communication	3	10%
PHEY 107	Nanoscience and Technology	3	10%
PHEY 108	Laser spectroscopy and its applications	3	10%
PHEY 201	Electro-Opticmaterials and devices	3	10%
PHEY 202	Ferroelectric materials and evices	3	10%
PHEY 203	Structure and properties of alloys	3	10%
PHEY 204	Photonic materials and devices	3	10%
PHEY 205	Numerical methods and programming	3	10%
PHEY 206	Ultrasonics and Non-Destructive Testing	3	10%
PHEY 207	Optoelectronic devices	3	10%
PHEY 208	Biophotonics	3	10%
PHEY 209	Chaos, Solitons and Fractals	3	10%

II. Semester III & IV

a) **New courses (proposed): Academic Year 2023-24**

Course Code	Course Title	Credits
PHE 7101	Laser and Non Linear Optics	3
ENE 6181	English for Career Development	3
PHE 7105	Materials Science Lab – II	2

b) Courses with syllabus revisions (proposed): Academic Year 2023-24

Course Code	Course Title	Credits	Revision (%)
PHE7102	Thermodynamics and Statistical Physics	3	80%
PHE 7103	Nuclear and Particle Physics	3	30%
PHEY 301	Mathematical methods for nonlinear science	3	10%
PHEY 302	Measurements and Instrumentation	3	10%
PHEY 303	Biomedical Instrumentation	3	10%
PHEY 304	Radiation Physics	3	10%
PHEY305	Density Functional Theory	3	10%
PHEY 306	Nanophotonics	3	10%
PHEY307	Optical computing	3	10%
PHEY 308	Thin film science and technology	3	10%
PHEY 309	Corrosion science and technology	3	10%
PHEY 310	Biomaterials	3	10%
PHEY 311	Advanced Materials for Energy Applications	3	10%

The curriculum and syllabi of M.Sc. Physics under Regulations 2022 are given in [Annexure 19.16.1](#).

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

DEPARTMENT OF CHEMISTRY

Item 19.17

To consider and approve the recommendations of Board of Studies of the Department of Chemistry.

Item 19.17.1

To consider and approve the curriculum and syllabi of M.Sc. Chemistry under Regulations 2022.

Note on Agenda:

The Institution follows the best practice of effecting major revision in curriculum and syllabi of M.Sc. Programmes once in three years considering the dynamic changes in the industry, introduction of new technology and techniques, emerging trends, employment opportunities and feedback from stakeholder's viz., students, parents, faculty, alumni and employers. This is in addition to the revision in curriculum and syllabi of programmes facilitated once in six months.

In the 12th meeting of Board of Studies of Chemistry Department, which was held on 17th July 2022, the curriculum and syllabi of M.Sc. Chemistry under R 2022 was deliberated. After deliberations, the Board has recommended the same for the approval in the Academic council.

The Salient features of M.Sc. Chemistry curriculum under R2022 with respect to "Introduction of New courses" and "Courses with Syllabus revisions" are as follows:

I. Semester I & II

a) New courses introduced: Academic Year 2022-23

Course Code	Course Title	Credits
CHE6102	Thermodynamics and Chemical Equilibria	3
CHE6104	Laboratory Techniques in Organic Synthesis	2
CHE6105	Experiments on the determination of Thermodynamics and Chemical Equilibria parameters	2
CHE6202	Kinetics and Electrochemistry	3
CHE6203	Multistep Synthesis and Characterization of Organic Compounds	2
CHE6204	Experiments on Kinetics and Electrochemical Parameters	2
CHEY021	Green and Sustainable Chemistry	3
CHEY013	Nanotechnology and Catalysis	3

b) Courses with Syllabus revisions: Academic Year 2022-23

Course Code	Course Title	Credits	Revision (%)
Core Courses			
CHE6101	Stereochemistry and Reaction Mechanisms	3	25
CHE6103	Fundamentals of Inorganic Chemistry	3	25

CHE6106	Inorganic Chemistry Practical	2	10
GEE62XX	Research Methodology and IPR	3	25
CHE6201	Synthetic and Spectroscopic Organic Chemistry	3	60
CHE6205	Inorganic Chemistry Practical	2	10
CHEY001	Analytical Techniques	3	25
CHEY002	Transition and Inner Transition Elements Chemistry	3	20
CHEY003	Molecular Spectroscopy	3	20
CHEY004	Photophysics and photochemistry	3	20
CHEY014	Protective Coatings	3	10
CHEY015	Corrosion and Corrosion Control	3	10
CHEY016	Polymer Technology	3	10

II. Semester III & IV

a) New courses (proposed): Academic Year 2023-24

Course Code	Course Title	Credits	Revision (%)
CHE7101	Retrosynthetic Analysis and Heterocyclic Compounds	3	70
CHEY023	Alternative Energy Resources	3	60

b) Courses with syllabus revisions (proposed): Academic Year 2023-24

Course Code	Course Title	Credits	Revision (%)
Core Courses			
CHE7102	Quantum Chemistry and Group Theory	3	10
CHE7103	Organometallic Chemistry	4	20
CHE7104	Structural Interpretation of Materials	3	10
Elective Courses			
CHEY005	Bioorganic Chemistry	3	30
CHEY006	Chemistry of heterocyclic compounds and Natural Products	3	30
CHEY007	Biochemistry	3	10
CHEY008	Medicinal and Pharmaceutical chemistry	3	50
CHEY009	Chemistry of carbohydrates	3	10

CHEY010	Advanced concepts in organic synthesis	3	10
CHEY011	Pharmaceutical Technology	3	10
CHEY012	Elemental Forensic Chemistry	3	10
CHEY017	Polymer Structure and Property Relationship	3	50
CHEY018	Electrochemical Energy Conversion and Storage	3	10
CHEY019	Industrial Electrochemistry	3	10
CHEY020	Surface Coating Technology	3	10
CHEY022	Industrial Pollution Control	3	30
CHEY024	Solar Energy	3	10
CHEY025	Fuel Cells For Sustainable Energy Production	3	15
CHEY026	Biomass for Energy Applications	3	10
CHEY027	Environmental Chemistry	3	10

The curriculum and syllabi of M.Sc. Chemistry under Regulations 2022 are given in [Annexure 19.17.1.](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

SCHOOL OF SOCIAL SCIENCES AND HUMANITIES
DEPARTMENT OF ENGLISH

Item 19.18

To consider and approve the recommendations of Board of Studies of the Department of English.

Item 19.18.1

To consider and approve the curriculum and syllabi of the new programme B.A. English under Regulations 2021.

Note on Agenda:

The starting of the new programme B.A. English from the AY 2022-23 was already approved in the 18th meeting of the Academic Council held on 24.02.2022.

The curriculum of B.A. English under Regulation 2021 was framed in alignment with

the UGC model curriculum with the structure of the programme consisting of Ability Enhancement courses, Core courses, Discipline Specific Electives, Skill Enhancement Electives, Generic Electives and Soft Skill courses. The curriculum & syllabi of B.A. English was deliberated in the 15th meeting of the Board of Studies of the Department of English held on 14.06.2022. After deliberations, the BoS has recommended the same for approval in the Academic Council.

The salient features of B.A. English curriculum under R 2021 with respect to “Introduction of New courses” are as follows:

I. Semester I & II

a) New courses introduced: Academic Year 2022-23

Course Code	Course Title	Credits
END 1111	Social History of England	4
END 1112	Introduction to English Language	4
END 1113	British Literature: 14 th to 16 th Centuries	4
END 1211	British Literature: 17 th Century	4
END 1212	Introduction to Literary Forms	4
END 1213	American Literature	4
ENDX 51	Professional Ethics	4
ENDX 52	English for Communicative Purposes	4

II. Semester III & IV

a) New courses (proposed): Academic Year 2023-24

Course Code	Course Title	Credits
END 2111	British Literature: 18 th and 19 th Centuries	4
END 2112	Indian Writing in English	4
END 2113	Women's Writing	4
END 2211	British Literature: 20 th Century	4
END 2212	Literary Theory & Criticism	4
END 2213	South Asian Literature	4
ENDX 01	Travel Writing	4
ENDX 03	Green Literature	4

ENDX 04	Children's Literature	4
ENDX 11	Literature of Indian Diaspora	4
ENDX 12	Literature & Adaptation	4
ENDX 13	Introduction to Discourse Analysis	4
ENDX 14	Introduction to Linguistics	4
ENDX 56	Academic Writing and Composition	4
ENDX 57	Virtual Communication	4

III. Semester V & VI

a) New courses (proposed): Academic Year 2024-25

Course Code	Course Title	Credits
END 3111	Postcolonial Literatures	4
END 3112	Shakespeare Studies	4
END 3113	Comparative Literature	4
END 3211	Culture Studies	4
END 3212	Value Education	4
ENDX 35	Dissertation	4
ENDX 21	Translation Studies	4
ENDX 22	Research Methodology	4
ENDX 23	Partition Literature	4
ENDX 24	Popular Literature	4
ENDX 61	Business Communication	4
ENDX 62	Literature and Reality	4
ENDX 31	British Literature: Post World War II	4
ENDX 32	World Literature	4
ENDX 33	Autobiography	4
ENDX 34	Marginal Literature	4
ENDX 66	English for Research Purposes	4
ENDX 67	Content Writing	4

ENDX 41	Creative Writing	4
ENDX 42	Computer Assisted Language Learning	4
ENDX 43	Public Speaking and Rhetoric	4
ENDX 44	English for Career Examinations	4
ENDX 45	English Language Teaching	4

The curriculum and syllabi of B.A. English under R 2021 are given in [Annexure 19.18.1.](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.18.2

To consider and approve the syllabus of the course “END 3212 Value Education” offered to B.A. English (Hons.) under Regulations 2021.

Note on Agenda:

In the 15th meeting of the Board of Studies of the Department of English held on 14th June 2022, the syllabus of the course “END 3212 Value Education” to be offered in the VI semester B.A. English (Hons.) under Regulations 2021 was deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The syllabus of the course is given in [Annexure 19.18.2.](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.18.3

To consider and approve the syllabus of the course “ENE 6181 English for Career Development” offered to M.Tech. programmes under Regulations 2022.

Note on Agenda:

In the 15th meeting of the Board of Studies of the Department of English held on 14th June 2022, the syllabus of the course “ENE 6181 English for Career Development” to be offered to M.Tech. programmes under Regulations 2022 was deliberated. The board has

recommended the same for approval in the Academic Council.

The syllabus of the course “ENE 6181 English for Career Development” is given in [Annexure 19.18.3](#).

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.18.4

To consider and approve the syllabus of the course “ENE 6181 English for Career Development” offered to M.Sc. / M.A. / M.Com. programmes under Regulations 2022.

Note to Agenda:

In the 15th meeting of the Board of Studies of the Department of English held on 14th June 2022, the syllabus of the course “ENE 6181 English for Career Development” offered to M.Sc., M.A., and M.Com programmes under Regulations 2022 was deliberated. The board has recommended the same for approval in the Academic Council.

The syllabus of the course “ENE 6181 English for Career Development” is given in [Annexure 19.18.4](#).

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

DEPARTMENT OF COMMERCE

Item 19.19

To consider and approve the recommendations of Board of Studies of the Department of Commerce.

Item 19.19.1

To consider and approve the curriculum and syllabi (I & II sem.) of B.COM. (Professional Accounting) under Regulations 2021

Note on Agenda:

The curriculum B.Com. (Professional Accounting) under the regulation 2021 was

framed in alignment with the UGC model curriculum with the structure of the programme consisting Ability Enhancement courses, Core courses, Discipline Specific Electives, Skill Enhancement Electives, Generic Electives and Soft Skill courses. The curriculum and syllabi of courses (I & II semester) of B.Com. (Professional Accounting) under the regulation 2021 was deliberated in the 17th meeting of Board of Studies of the Department of Commerce which was held on 24.05.2022. After deliberations the board has recommended the same for approval in the Academic Council.

The salient features of curriculum of B.Com. (Professional Accounting) R 2021 with respect to introduction of new courses are as follows:

Semester I & II:

Introduction of new courses: Academic Year 2022-23

Course Code	Course Title	Credits
COD 1152	International Finance-I	3
COD 1151	Business Communication	4
COD 1251	Corporate Legal Framework	4
COD 1252	International Finance-II	4
COD 1253	International Auditing-I	4

The curriculum and syllabi of courses (I & II sem.) of B.Com. (Professional Accounting) under Regulations 2021 are given in [Annexure 19.19.1.](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.19.2

To consider and approve the curriculum and syllabi of M.Com. General under Regulations 2022

Note on Agenda:

The curriculum and syllabi of M.Com. (General) under Regulations 2022 was deliberated in the 17th meeting of Board of Studies of the Department of Commerce which was held on 24.05.2022. After deliberations the board has decided to retain the existing curriculum and syllabi except for the course “COE 6203 Global Business Strategy”. Minor modification was carried out in the course “COE 6203 Global Business Strategy” to suit industry needs.

The curriculum and syllabi (with revised course codes) of M.Com. General under Regulations 2022 incorporating revision in the course COE 6203 Global Business Strategy” is given in [Annexure 19.19.2](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.19.3

To ratify the guidelines of the course "Internship COC 6205" offered for M.Com. under Regulations 2019.

Note on Agenda:

As per the M.Tech. / MCA / M.Sc. / M.Com. Regulations 2019, Clause 3.3.5, Internship courses shall assign credits as “one credit for four weeks of industrial internship or 160 hours per semester”. From the Academic Year 2021-22 the Department of Commerce is offering this course “COC 6205 Internship” as four credit course for 160 hours of industry internship. This was deliberated in the 17th meeting of Board of Studies of the Department of Commerce which was held on 24.05.2022. After deliberations, the board has recommended the same for ratification from the Academic Year 2021-22 by bringing necessary amendment in the curriculum as guidelines.

The Academic Council may ratify the same for with effect from the Academic Year 2021-22.

Resolution:

After deliberations, the agenda item was ratified with effect from the Academic Year 2022-23.

Item 19.19.4

To consider and approve the title of the course “COD 2123 Income Tax” from “COD 2123 Income Tax Law and Practice” offered to B.Com. Honours under the Regulations 2021.

Note on Agenda:

The Department of Commerce is offering an ACCA integrated paper "COD 2123 Income Tax Law and Practice" in semester III for B.Com. Honours under Regulations 2021. To maintain the nomenclature of the course in line with ACCA Accreditation board, the change in title of the course from “**Income Tax Law & Practice**” to “**Income Tax**” was

deliberated in the 17th meeting of Board of Studies of the Department of Commerce which was held on 24.05.2022. After deliberations the board has recommended the same for approval in the Academic Council.

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

SCHOOL OF ARABIC AND ISLAMIC STUDIES

Item 19.20

To consider and approve the recommendations of Board of Studies of the School of Arabic and Islamic Studies.

Item 19.20.1

To consider and approve the revised curriculum and syllabi of M.A. Islamic Studies under Regulations 2022.

Note on Agenda:

The Institution follows the best practice of effecting major revision in curriculum and syllabi of M.A. Islamic Studies once in four years considering the dynamic changes in the industry, introduction of new technology and techniques, emerging trends, employment opportunities and feedback from stakeholder's viz., students, parents, faculty, alumni and employers. This is in addition to the revision in curriculum and syllabi of programmes facilitated once in six months.

In the 14th meeting of Board of Studies of school of Arabic & Islamic studies which was held on 10.09.2022, curriculum and syllabi of M.A. Islamic studies under Regulations 2022 was deliberated. After deliberation, the board has recommended the same for approval in the Academic council.

The salient features of the M.A. curriculum under R 2022 with respect to "introduction of new courses" and courses with syllabus revision are as follows:

I Semester I & II:

a) New Courses introduced: Academic Year 2022-23

Course Code	Course Name	Credits
ISD 6103	Sufism and its Development	3

b) Courses with syllabus revisions: Academic Year 2022-23

Course Code	Course Name	Credits
ISD 6101	Advanced Thematic Commentary of Qur'an	4
ISD 6104	Arabic Communicative Skill	4
ISD 6105	Early Prominent Muslim Personalities	3

II. Semester III & IV:

a) New courses (proposed): Academic Year 2023-24

Course Code	Course Name	Credits
ISD 7103	Muslim Civilization in Andalusia - Spain	4
ISD 7211	Development of Ahkamul Qur'an	4
ISD 7213	Research Article Writing	3
ISD 7214	History of Muslim Civilization	4
ISD X64	Indian History – Mughal Period	3
ISD X65	Islamic Ethics	3

b) Courses with syllabus revisions (proposed): Academic Year 2023-24

Course Code	Course Name	Credits
ISD 7102	Law of Governance: Siyasa Shariyah	4
ISD 7104	Muslim Thinkers & Movements	3
ISD 7212	Methodology of Imams - Comparative study	4

The curriculum and syllabi of M.A. Islamic Studies under Regulations 2022 are given in [Annexure 19.20.1](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

CRESCENT SCHOOL OF PHARMACY

Item 19.21

To consider and approve the recommendations of Board of Studies of the Crescent School of Pharmacy.

Item 19.21.1

To consider and approve the curriculum and syllabi of M. Pharm.

(Pharmaceutics) under Regulations 2014.

Note on Agenda:

The curriculum of the M.Pharm. (Pharmaceutics) under THE MASTER OF PHARMACY (M.PHARM.) COURSE REGULATIONS 2014 was framed and circulated by the Pharmacy Council of India. It is in alignment with UGC model curriculum with the structure of the programme consisting of Ability Enhancement courses, Core courses, Discipline Specific Specializations, Journal Club activities, Discussion and proposal of presentations and Research work. The curriculum and syllabi of M.Pharm. (Pharmaceutics) were deliberated in the meeting of Board of Studies of Crescent School of Pharmacy which was held on 18.08.2022. After deliberations, the board has recommended the same for approval in the Academic Council.

The salient features of the M.Pharm. (Pharmaceutics) under R 2014 with respect to "introduction of new courses" are as follows:

Course Code	Course Title	Credits
Semester I (AY 2022-23)		
MPH101T	Modern Pharmaceutical Analytical Techniques	4
MPH102T	Drug Delivery System	4
MPH103T	Modern Pharmaceutics	4
MPH104T	Regulatory Affair	4
MPH105P	Pharmaceutics Practical I	6
--	Seminar/Assignment	4
Semester II (AY 2022-23)		
MPH201T	Molecular Pharmaceutics (Nano Tech and Targeted DDS)	4
MPH202T	Advanced Biopharmaceutics & Pharmacokinetics	4
MPH203T	Computer Aided Drug Delivery System	4
MPH204T	Cosmetic and Cosmeceuticals	4
MPH205P	Pharmaceutics Practical II	6
--	Seminar/Assignment	4
Semester III (AY 2023-24)		
MRM301T	Research Methodology and Biostatistics*	4
--	Journal club	1
--	Discussion/Presentation (Proposal Presentation)	2
--	Research work*	14

Semester IV (AY 2023-24)		
--	Journal club	1
--	Discussion / Final Presentation	16
--	Research work*	3

* Non University Examination

Semester wise credits distribution

S. No.	Semester	Credits
1	Semester I	26
2	Semester II	26
3	Semester III	21
4	Semester IV	20
Co-curricular Activities (Attending Conference, Scientific Presentations and Other Scholarly Activities)		Minimum=02 Maximum=07*
Total Credit Points		Minimum=95 Maximum=100*

The Curriculum and syllabi of M. Pharm. (Pharmaceutics) Programme under Regulations 2014 are given in [Annexure 19.21.1](#).

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

CRESCENT SCHOOL OF LAW **CENTRE FOR POST GRADUATE LEGAL STUDIES**

Item 19.22

To consider and approve the recommendations of the Board of Studies of the Centre for Post Graduate Legal Studies, Crescent School of Law.

Item 19.22.1

To consider and approve the curriculum and syllabi of LL.M (Criminal Law) under Regulations 2022.

Note to Agenda:

In considering the requirement of student community at large, the School of Law has proposed to start a Two-year Post Graduate course in Law. The PG centre is named as Centre for Post Graduate Legal Studies, which will be a constituent of Crescent School of Law. Accordingly, an exclusive Board of Studies for PG Centre has been constituted vide PROC. No. 761: c1:2022 dated 12.07.2022 with eminent members.

In the 1st meeting of Board of Studies of Centre for Post Graduate Legal Studies, Crescent School of Law, which was held on 24th August 2022, the curriculum and syllabi of LL.M under Regulations 2022 was deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The Salient features of LL.M., Criminal Law, curriculum under R 2022 with respect to “Introduction of New courses” are as follows:

I. Semester I & II

a) New courses introduced: Academic Year 2022-23

Course Code	Course Title	Credits
MLE 6101	Law and Justice in a Globalising World	4
MLE 6102	Criminal Justice Administration	4
MLE 6103	Criminology, Penology & Victimology	4
MLE 6104	Research Methodology	4
	Elective - I (Discipline Specific)	4
MLE 6201	Comparative Public Law	4
MLE 6202	Judicial Process	4
MLE 6203	Sentencing Process & Comparative Practices	4
MLE 6204	Drug Abuse & Criminal Justice System	4
	Elective - II (Discipline Specific)	4

b) Elective courses introduced: Academic Year 2022-23

SEMESTER - I			
1	MLEY011	Criminal Law relating to Women and Children	Elective - I (Discipline Specific)
2	MLEY012	Hate Crimes and Criminal Law Policy	
SEMESTER - II			
1	MLEY021	Criminal Justice Research	Elective - II

2	MLEY022	Criminalistics and Scientific Investigation	(Discipline Specific)
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II. Semester III & IV

a) Introduction of New courses (proposed): Academic Year 2023-24

Course Code	Course Title	Credits
MLE 7101	Cyber Crime & Digital Forensics	4
MLE 7102	International Criminal Law & Justice	4
MLE 7103	Corporate & White Collar Crimes	4
MLE 7104	Criminal Psychology	4
	Elective - III (Generic)	4
MLE 7201	Dissertation	8
	Elective - IV (Generic)	4
MLE 7202	Internship	2

b) Introduction of Elective courses (proposed): Academic Year 2023-24

SEMESTER - III			
1	MLEY031	Teaching and Learning Pedagogy	Elective - III (Generic)
2	MLEY032	Scientific Tools for Social Science Research	
SEMESTER - IV			
1	MLE Y041	Massive Open Online Course	Elective - III (Generic)
8	MLE Y042	Law Startups and Entrepreneurial Skills	

The Curriculum and syllabi of LL.M (Criminal Law) under R 2022 are given in [Annexure 19.22.1](#).

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

CRESCENT SCHOOL OF BUSINESS
DEPARTMENT OF MANAGEMENT STUDIES

Item 19.23

To consider and approve the recommendations of Board of studies of the Crescent School of Business

Item 19.23.1

To consider and approve the revision in curriculum and syllabi of MBA under Regulations 2021.

Note on Agenda:

Based on the feedback from students and faculty the course “MSE 6106 - Legal Aspects of Business” has been revised (10%). Moreover the credits for the course “MSE 7102 Summer Internship” is reduced from 4 to 3 credits. These revisions were deliberated in the 13th meeting of Board of Studies of Crescent School of Business which was held on 23rd September 2022 and the board has recommended the same for approval in the Academic council.

The revised curriculum and revised syllabus of the course “MSE 6106 - Legal Aspects of Business” are given in [Annexure 19.23.1](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.23.2

To consider and approve the syllabi (III and IV Semester) of MBA IEV under Regulations 2021

Note on Agenda:

The curriculum of MBA IEV under Regulations 2021 and syllabi of I & II Semester courses were approved in the 17th and 18th meeting of Academic Council respectively. In the 13th meeting of Board of Studies of Crescent School of Business, which was held on 23.09.2022, the syllabi of courses (III & IV sem.) of MBA IEV under R 2021 was deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The salient features of MBA IEV curriculum under R2021 with respect to “New Courses introduced” are as follows:

I. Semester III & IV

a) New courses introduced: Academic Year 2022-23

Course Code	Course Title	Credits
SEMESTER III		
IEV 6301	Entrepreneurial Leadership	2
IEV 6302	Venture Growth & Technology	2
IEV 6303	People Management	2
IEV 6304	Entrepreneurial Marketing & Sales Strategy	4
IEV 6305	Business Structure	2
IEV 6306	Entrepreneurial Finance and Venture Funding	4
IEV 6307	Project Specific Course	2
IEV 6309	Validation of Business Model	6
SEMESTER IV		
IEV 6402	Action Based Learning	20

The syllabi of the courses (III & IV sem.) of MBA IEV under Regulations 2021 are given in [Annexure 19.23.2.](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was approved.

Item 19.23.3

To consider and approve the revision in syllabi of the courses “GEDX 219 Advanced Entrepreneurship” and “MSD 3281 Entrepreneurship” offered to B.Tech. under Regulations 2021

Note on Agenda:

The courses “GEDX 219 Advanced Entrepreneurship” and “MSD 3281 Entrepreneurship” offered to B.Tech. under R2021 were revised. These revisions were deliberated in the 13th meeting of board of studies of Department of Management Studies and the board has recommended the same for approval in the Academic Council.

Excerpts of Minutes of 20th Academic Council Meeting



Minutes of

Twentieth Meeting of Academic Council

of

B.S. Abdur Rahman Crescent Institute of Science and Technology

held on

April 13, 2023

The Academic Council may consider and ratify the above list of personality and character development club / activities from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was ratified for implementation from the Academic year 2022 – 23.

SCHOOL OF INFRASTRUCTURE
DEPARTMENT OF CIVIL ENGINEERING

Item 20.7.1

To consider and approve the syllabi (V & VI semester) of B.Tech. Civil Engineering under Regulations 2021.

Note on Agenda:

The major revisions in curriculum of B.Tech. Civil Engineering under R 2021 and syllabi of I & II Semester courses was approved in the 17th meeting of Academic Council and accordingly implemented from the year AY 2021-2022. The syllabi of III & IV semester courses were approved in the 18th meeting of Academic Council and accordingly implemented from the year AY 2022-2023.

In the 18th meeting of Board of Studies of Civil Engineering Department, the syllabi of **V and VI** Semester courses, including relevant professional elective courses, were deliberated. After deliberations, the Board has recommended the same for approval in the Academic Council

The Salient features of the B.Tech. Civil Engineering curriculum (V & VI sem.) under R 2021 with respect to “Introduction of New courses” and “Courses with Syllabus revisions” are as follows:

I. Semester V & VI (AY 2023-2024)

a) New courses proposed:

Course Code	Course Title	Credits
CEDX 17	Waterproofing of Concrete and Masonry Structures	3
CEDX 18	Corrosion Prevention and Control in RC Structures	3
CEDX 20	Intelligent Building Management System	3
CEDX 21	Automation in construction and management	3
CEDX 33	Subsurface Investigation and Report Writing	3
CEDX 56	Water Distribution Systems	3

CEDX 65	Railway Engineering	1
CEDX 66	Airport planning & Engineering	3
CEDX 67	Docks and Harbour Engineering	3
CEDX 75	Islamic Architecture	3

b) Courses with Syllabus revisions:

Course Code	Course Title	Credits	Revision (%)
CED 3101	Structural Analysis II	3	25
CED 3103	Hydraulic and Hydraulic Machinery	4	20
CED 3104	Repair and Rehabilitation of RC Elements	3	25
CED 3105	GIS and its Applications	3	10
CED 3201	Design of Structural Steel Elements	3	20
CED 3202	Construction Management	3	25
CEDX 04	Earthquake Resistant Design of Structures	3	25
CEDX 08	Prefabricated Structures	3	20
CEDX 09	Introduction to Steel-Concrete Composite Structures	3	20
CEDX 23	Housing Planning and byelaws	3	20
CEDX 35	Geo-Environmental Engineering	3	30
CEDX 37	Geo Synthetics	3	30
CEDX 43	Industrial Waste Water Treatment	3	20
CEDX 44	Hazardous Waste Management	3	60
CEDX 45	Environmental Risk Assessment	3	30
CEDX 46	Environmental Impact Assessment	3	20
CEDX 47	Sustainable Water and Sanitation for Smart cities	3	20
CEDX 51	Hydrology	3	20
CEDX 52	Ground Water Engineering	3	20
CEDX 53	Storm Water and Flood Management	3	25
CEDX 62	Urban Planning and Design	2	40
CEDX 64	Pavement Design	2	20
CEDX 72	Remote Sensing	3	10

The syllabi of the courses (V & VI Semester) of B.Tech. Civil Engineering under R 2021 (including syllabi of relevant professional elective courses) is given in [Annexure](#)

20.7.1.

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

After deliberations, the above item was approved for implementation from the academic year 2023-24.

Item 20.7.2

To consider and approve the syllabi of open elective courses offered by the Department of Civil Engineering for B.Tech. programmes under Regulations 2021

Note on Agenda:

The Department of Civil Engineering offering open elective courses, for the benefit of other department students' in the VI & VII semester of B.Tech. Programmes under R 2021 were deliberated in the 18th Board of Studies of Civil Engineering Department held on 05.04.2023. After deliberations, the Board has recommended the same for approval in the Academic Council.

The following are the salient details of open elective courses offered by the Department:

I. Semester VI & VII (AY 2023-2024)

a) New courses proposed:

Course Code	Course Title	Credits
GEDX 105	Building Repair Solutions	3
GEDX 229	Waste Water Management	3

b) Courses with Syllabus revisions:

Course Code	Course Title	Credits	Revision (%)
GEDX 209	Disaster Management	3	20
GEDX116	Green Design and Sustainability	3	40

The syllabi of the open elective courses offered by the Department of Civil Engineering for B.Tech. programmes under R 2021 are given in [Annexure 20.7.2](#).

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

After deliberations, the agenda item was approved for the implementation from the academic year 2023-24.

Item 20.7.3

To consider and approve the syllabus of the open elective course “Green Building and Energy Management’ offered by the Department of Civil Engineering for M.Tech. programmes under Regulations 2022.

Note on Agenda:

The Department of Civil Engineering offering the open elective course “Green Building and Energy Management” for the benefit of other department students of M.Tech. Programmes under Regulations 2022. The syllabus of this course was deliberated in the 17th Board of Studies of Civil Engineering Department held on 10.08.2022. After deliberations, the Board has recommended the same for approval in the Academic Council.

The following are the salient details of open elective course offered by the Department:

I. Semester III (AY 2023-2024)

a) New course proposed:

Course Code	Course Title	Credits
OEEY	Green Building and Energy Management	3

The syllabus of the open elective course “Green Building and Energy Management” offered by the Department of Civil Engineering to M.Tech. programmes under Regulations 2022 is given in [Annexure 20.7.3](#).

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

After deliberations, the above agenda item was approved for implementation from the academic year 2023-24.

Item 20.7.4

To consider and ratify the revised Programme Educational Objectives of B.Tech. Civil Engineering under R 2021

Note on Agenda:

The Programme Educational Objectives of B.Tech. Civil Engineering under R 2021 were revised by following the guidelines of NBA. The expected attributes of the graduate engineers after 3-5 years of their graduation was measured as a scale for framing PEOs.

These PEOs were deliberated in the 18th Board of Studies of Civil Engineering Department held on 05.04.2023. After deliberations, the Board has recommended the same for ratification in the Academic Council.

The revised PEOs of B.Tech. Civil Engineering under R 2021 is given in [Annexure 20.7.4.](#)

The Academic Council may consider and ratify the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the above item was ratified and considered for the implementation from the academic year 2022-23.

SCHOOL OF MECHANICAL SCIENCES
DEPARTMENT OF MECHANICAL ENGINEERING

Item 20.8

To consider and approve the recommendations of the Board of Studies of the Department of Mechanical Engineering.

Item 20.8.1

To consider and approve the revised curriculum and syllabus of elective courses (II & III semester) of M.Tech. (CAD-CAM) programme under Regulations R2022.

Note on Agenda:

The major revision in the curriculum of M.Tech. (CAD CAM) programme under R 2022 and syllabi of core courses and professional elective courses (Semester I) were approved in the 19th meeting of the Academic Council held on 29.09.2022. In the 21st meeting of the Board of Studies of the Mechanical Engineering Department, which was held on 10.02.2023, an amendment was proposed in the curriculum by introducing a new elective course based on the suggestion from 19th meeting of the Academic Council and syllabus of the professional elective courses (II & III semester) were deliberated. After deliberations, the Board has recommended the same for approval in the Academic Council.

The details of new elective course introduced and courses with syllabus revisions in the M.Tech. (CAD CAM) under R 2022 is given below.

a) New courses proposed:

Sl. No.	Course Code	Category	Course Title	Credits
1.	MEEY 039	PE	Circular Economy *	2
2.	MEEY 015	PE	Design for Sustainability	2
3.	MEEY 038	PE	Industry 4.0	1
4.	MEEY 037	PE	Augmented Reality / Virtual Reality	1

* New elective course added in the curriculum as suggested by 19th Academic Council

b) Courses with syllabus revisions:

Sl. No.	Course Code	Course Title	Credits	Revision (%)
1	MEEY 001	Advanced Mechanisms Design and Simulation	3	22
2	MEEY 002	Advanced Strength of Materials	3	20
3	MEEY 003	Advanced Tool Design	3	20
4	MEEY 004	Computational Fluid Dynamics	3	25
5	MEEY 005	Computer-Aided Process Planning	3	27
6	MEEY 007	Design of Material Handling Equipment	3	25
7	MEEY 008	Industrial Robotics and Flexible Automation	3	20
8	MEEY 010	Optimization Techniques in Design	3	25
9	MEEY 014	Mechanics of Composite Materials	2	30
10	MEEY 016	Geometric Dimensioning and Tolerance	1	20
11	MEEY 017	Topology Optimization	1	20
12	MEEY 023	Processing of Polymers and Composites	3	20
13	MEEY 024	Precision Engineering and Nano Technology	3	24
14	MEEY 025	Newer Materials	2	23
15	MEEY 026	Automotive Manufacturing	1	23
16	MEEY 027	Virtual Manufacturing	1	20
17	MEEY 031	Data Communication in CAD/CAM	3	20
18	MEEY 033	Integrated Manufacturing Systems and management	3	20

Sl. No.	Course Code	Course Title	Credits	Revision (%)
19	MEEY 035	Reliability and Total Productive Maintenance	3	25
20	MEEY 036	Product Life Cycle Management	1	20

The revised curriculum and syllabus of elective courses (II & III semester) of M.Tech. (CAD-CAM) are given in [Annexure 20.8.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

After deliberations, the above item was approved for implementation from the academic year 2023-24.

Item 20.8.2

To consider and approve the open elective courses for M.Tech. programmes under Regulations 2022.

Note on Agenda:

The syllabi for the following open elective courses offered from the Mechanical Engineering department to M.Tech. programmes under R 2022 were deliberated in the 21st meeting of Board of Studies of the Mechanical Engineering Department, which was held on 10.02.2023. After deliberations, the Board has recommended the same for approval in the Academic Council.

a) List of open elective courses proposed:

Sl. No.	Course Code	Course Title	L	T	P	C
1	OEEY	Project Management	3	0	0	3
2	OEEY	Robotic Technology	3	0	0	3

The syllabi of the above open elective courses to be offered by the Department of Mechanical Engineering for M.Tech. programmes under R 2022 are given in [Annexure 20.8.2](#).

The Academic Council may consider and approve the same for implementation from

the Academic Year 2023-24.

Resolution:

After deliberations, the above item was approved for implementation from the academic year 2023-24.

DEPARTMENT OF AEROSPACE ENGINEERING

Item 20.9

To consider and approve the recommendations of the Board of Studies of the Department of Aerospace Engineering.

Item 20.9.1

To consider and approve the syllabi (III and IV semester) of M.Tech. Avionics under Regulations 2022.

Note on Agenda:

The major revisions in curriculum of M.Tech. Avionics Engineering under R 2022 and syllabi of I & II semester courses were approved in the 19th meeting of Academic Council held on 29.09.2022. In the 17th meeting of Board of Studies of Aerospace Engineering Department, which was held on 03.02.2023, the syllabi of programme core and professional elective courses (semester III & IV) were deliberated. After deliberations, the Board has recommended the same for approval in the Academic Council.

The syllabi of the courses (III & IV semester programme core and professional Electives) of M.Tech. Avionics under R 2022 are given in [Annexure 20.9.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

After deliberations, the above item was approved for implementation from the academic year 2023-24.

Item 20.9.2

To consider and approve the syllabi for (VI semester) elective courses of B.Tech. Aeronautical Engineering under Regulations 2021

Note on Agenda:

The major revisions in curriculum of B.Tech. Aeronautical Engineering under R 2021

and syllabi of I – VIII semester courses were approved in the 17th, 18th and 19th meeting of Academic Council respectively. In the 17th meeting of Board of Studies of Aerospace Engineering Department, which was held on 03.02.2023, the syllabi of professional elective courses (Semester VI) were deliberated. After deliberations, the Board has recommended the same for approval in the Academic Council.

The salient features of the B.Tech Aeronautical Engineering curriculum under R 2021 with respect to ‘Introduction of New Courses’ and ‘Courses with Syllabus Revision’ with respect to VI semester elective courses are as follows:

I. Professional Elective courses : (VI semester)

a. New Courses proposed: AY 2023-24

Course Code	Course Title	Credits
AEDX 19	Vibration and Aero Elasticity	3
AEDX 21	Experimental Techniques for Aircraft Structures	3
AEDX 37	Space Debris Management	1

b. Courses with Syllabus revision: AY 2023-24

Course Code	Course Name	Credits	Revision (%)
AEDX 04	Viscous Flows	3	25%
AEDX 05	Hypersonic Aerodynamics	3	25%
AEDX 28	Measurement Systems	3	30%

The syllabi of the (VI semester) elective courses of B.Tech. Aeronautical Engineering under R 2021 is given in [Annexure 20.9.2](#).

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

The agenda item was approved for implementation from the academic year 2023-24.

DEPARTMENT OF POLYMER ENGINEERING

Item 20.10

To consider and approve the recommendations of the Board of Studies of the Department of Polymer Engineering.

Item 20.10.1

To consider and approve the syllabi of programme core and professional

elective courses (Semester V – VIII) of B.Tech. Polymer Engineering under Regulations 2021.

Note on Agenda:

The major revisions in curriculum of B.Tech. Polymer Engineering under R 2021 and syllabi of I & II, III & IV Semester courses were approved in the 17th & 18th meeting of Academic Council respectively. In the 15th meeting of Board of Studies of Polymer Engineering Department, which was held on 07.02.2023, the syllabi of programme core and professional elective courses (Semester V – VIII) were deliberated. After deliberations, the Board has recommended the same for approval in the Academic Council.

The salient features of B.Tech. Polymer Engineering curriculum under R-2021 with respect to “Introduction of New courses” and “Courses with Syllabus revisions” are as follows:

I. Semester V to VIII

a) New courses proposed: (AY 2023-24)

Course Code	Course Title	Credits
PED3102	Polymer Blends and Nano composites	3
PEDX01	Biopolymers and Hydrogel	3
PEDX03	Polymers for Advanced Technologies	3
PEDX05	Polymers for Battery Technology	3
PEDX06	Speciality Elastomers	3
PEDX07	Polymers for Electric vehicles	3
PEDX11	Fibre Technology	3
PEDX12	Polymer Post-Processing Operations	3
PEDX35	Automation in Polymer Processing Industries	3

b) Courses with syllabus revisions:

Course Code	Course Title	Credits	Revision (%)
PED3101	Polymer Composites Engineering	3	20
PED3103	Plastic and Rubber Testing Technology	3	25
PED3104	Polymer Reaction Engineering	3	10
PED3105	Rubber Processing Laboratory	3	20
PED3201	Plastic and Rubber Product Design	3	10
PED3203	Plastic Product Design Laboratory	3	20
PEDX02	Biomedical Polymers for Health Care	3	40
PEDX13	Rubber Product Manufacturing	3	20

	Technology		
PEDX14	Advanced Processing Technology	3	10
PEDX15	Tyre Manufacturing Technology	3	20
PEDX16	Polymer Waste Management and Recycling	3	20
PEDX17	Plastic Packaging Technology	3	20

The syllabi of the courses (V to VIII semesters) of B.Tech. Polymer Engineering under R 2021 are given in [Annexure 20.10.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

The agenda item was approved for implementation from the academic year 2023-24.

Item 20.10.2

To consider and approve the open elective courses for B.Tech. programmes under Regulations 2021.

Note on Agenda:

The syllabi of one open elective course offered from Polymer Engineering department to B.Tech. programmes under R 2021 were deliberated in the 15th of Board of Studies of Polymer Engineering Department held on 07.02.2023. After deliberations, the Board has recommended the same for approval in the Academic Council.

List of new open elective course proposed:

Course Code	Course Title	Credits	Semester (VI / VII)
GEDX 221	Polymers for Different Transportation	3	VI

The syllabus of the open elective course offered by the Department of Polymer Engineering for B.Tech. programmes under R 2021 is given in [Annexure 20.10.2](#).

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

The agenda item was considered and approved for implementation from the academic year 2023-24.

SCHOOL OF ELECTRICAL AND COMMUNICATION SCIENCES

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Item 20.11

To consider and approve the recommendations of the Board of Studies of the Department of Electrical and Electronics Engineering

Item 20.11.1

To consider and approve the revised curriculum and introduction of new elective courses in the B.Tech. Electrical and Electronics Engineering programme under R2021

Note on Agenda:

The major revisions in curriculum of B.Tech. Electrical and Electronics Engineering under R 2021 and syllabi of I to VIII Semester courses were approved in the 17th & 18th & 19th meeting of Academic Council. In the 19th academic Council which was held on September 29th, 2022, the expert members suggested to introduce elective courses on "Gas Insulated Substation, Cost Economics of Renewable energy Systems and Digital Electrical Control System for Modern Buildings" considering the industry requirements. Accordingly, three new elective courses were proposed and submitted in 18thBoS for approval.

In the 18th meeting of Board of Studies of Electrical and Electronics Engineering Department, which was held on 10.02.2023, the syllabi of these three elective courses were deliberated. After deliberations, the Board has recommended the same for approval in the Academic Council.

The salient features of B.Tech. Electrical and Electronics curriculum under R2021 with respect to "Introduction of New courses" are as follows:

I. Semester V to VIII (AY 2023-24)

a) New courses proposed:

Course Code	Course Title	Credits
EEDX 13	Gas Insulated Substation	3
EEDX 64	Cost Economics of Renewable Energy Systems	3
EEDX 65	Digital Electrical Control System For Modern Buildings	3

The revised curriculum and syllabi of the newly introduced elective courses of B.Tech. Electrical and Electronics Engineering under R 2021 are given in [Annexure 20.11.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

The agenda item was approved for implementation from the academic year 2023-24.

Item 20.11.2

To consider and approve the open elective courses for M.Tech. programmes under Regulations 2022.

Note on Agenda:

The syllabi of the following open elective courses offered from the Department of Electrical and Electronics Engineering to M.Tech. programmes under R 2022 were deliberated in the 18th Board of Studies of EEE Department held on 10.02.2023. After deliberations, the Board has recommended the same for approval in the Academic Council.

List of new open elective courses proposed:

Course Code	Course Title	Credits
OEEY	Soft Computing Techniques	3
OEEY	Electric Vehicle and Battery Storage Technology	3

The syllabi of the open elective courses offered from Electrical and Electronics Engineering Department for M.Tech. programmes under R 2022 is given in [Annexure 20.11.2](#).

The Academic Council may consider and approve the same for implementation from the Academic Year 2023-24.

Resolution:

After deliberations, the agenda item was approved for implementation from the academic year 2023-24.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Item 20.12

To consider and approve the recommendations of the Board of Studies of the Department of Electronics and Communication Engineering

Item 20.12.1

To consider and approve the curriculum and syllabi (I & II Semester) of B.Tech. Electronics and Computer Engineering under Regulations 2021.

Note on Agenda:

The curriculum of B.Tech. **Electronics and Computer Engineering** under the Regulations 2021 was framed in alignment with the AICTE model curriculum with the structure of the programme consisting of Core courses, Professional Electives courses, Soft skill courses, Humanities & Sciences courses and open elective courses.

The curriculum & syllabi of (I & II semester) courses were deliberated in the 24th meeting of Board of Studies of ECE Department which was held on 08.02.2023. After deliberations, the BoS has recommended the same for approval in the Academic Council.

I. Semester I & II (AY 2023-24)

a) New courses proposed: (Semester II)

Sl. No.	Course Code	Course Title	Credits
1.	ESD 1201	Electron Devices	3
2.	ESD 1202	Data Structures and Algorithms	3
3.	ESD 1203	Electron Devices Laboratory	1

The curriculum and syllabi of the courses (I & II Semesters) of B.Tech. Electronics and Computer Engineering under R 2021 are given in [Annexure 20.12.1](#)

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

The agenda item was approved for implementation from the academic year 2023-24.

Item 20.12.2

To consider and approve the open elective courses for M.Tech. / M.Sc. programmes under Regulations 2022.

Note on Agenda:

The syllabi of the following open elective courses offered from ECE department to M.Tech. / M.Sc. programmes under R 2022 were deliberated in the 24th Board of Studies of ECE Department held on 08.02.2023. After deliberations, the Board has recommended the same for approval in the Academic Council.

List of new open elective courses introduced:

Course Code	Course Title	Credits	M.Tech. / M.Sc.
OEEY	Industry 4.0 and Applications	3	M.Tech.
OEEY	Real Time Embedded Systems.	3	M.Tech.
OEEY	MATLAB Programming	3	M.Sc.
OEEY	Introduction to Embedded System	3	M.Sc.

The syllabi of the open elective courses offered from ECE Department for M.Tech. / M.Sc. programmes under R 2022 is given in [Annexure 20.12.2](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2023-24.

Resolution:

The agenda item was approved for implementation from the academic year 2023-24.

Item 20.12.3

To consider and approve the syllabus of professional elective course (Semester VI) of B.Tech. ECE under Regulations 2021.

Note on Agenda:

The following professional elective course is included in the B.Tech ECE under R2021 Curriculum was deliberated in the 24th Board of Studies of ECE Department held on 08.02.2023. After deliberations, the Board has recommended the same for approval in the Academic Council.

I. Semester VI (AY 2023-2024)

a) New course proposed:

Course Code	Course Title	Credits
ECDX 060	Programming in Embedded Systems	3

The syllabi of the above course is given in [Annexure 20.12.3](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2023-24.

Resolution:

The agenda item was approved for implementation from the academic year 2023-24.

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Item 20.13

To consider and approve the recommendations of the Board of Studies of the Department of Electronics and Instrumentation Engineering

Item 20.13.1

To consider and approve the revision in the syllabus of “EID2101 - Digital Electronics” of B.Tech. Electronics and Instrumentation Engineering under Regulations 2021

Note on Agenda:

The major revisions in curriculum of B.Tech. of Electronics and Instrumentation Engineering under R 2021 and syllabi of I to VIII Semester courses were approved in the 17th, 18th & 19th meeting of Academic Council. As per the suggestions obtained from the previous SLAC and BoS meetings, some modifications have been made on the syllabi of the course “EID2101 - Digital Electronics” under R2021. In the 19th meeting of Board of Studies of Electronics and Instrumentation Engineering Department, which was held on 13.02.23, the changes of the syllabus were deliberated. After deliberations, the Board has recommended the same for approval in the Academic Council.

Course with syllabus revision:

Course Code	Course Title	Credits	Revision (%)
EID2101	Digital Electronics	4	10

The revised syllabus of the above course of B.Tech. Electronics and Instrumentation Engineering under R 2021 are given in [Annexure 20.13.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

The agenda item was approved for implementation from the academic year 2023-24.

Item 20.13.2

To consider and ratify the revision in the elective course syllabus of EICX26 (Applied biomedical instrumentation) of B.Tech. Electronics and Instrumentation

Engineering under Regulations 2017

Note on Agenda:

As per the suggestions obtained from the course faculty and students, few changes have been made in the course EICX26 Applied Bio-medical Instrumentation of B.Tech. EIE under R 2017. In the 19th meeting of Board of Studies of Electronics and Instrumentation Engineering Department, the changes on the syllabus were deliberated. After deliberations, the Board has recommended the same for ratification in the Academic Council.

Course with syllabus revision:

Course Code	Course Title	Credits	Revision (%)
EICX26	Applied Bio-medical instrumentation	3	25

The revised syllabus of the above course is given in [Annexure 20.13.2](#).

The Academic Council may consider and ratify the same for implementation from the academic year 2022-23.

Resolution:

The agenda item was ratified for implementation from the academic year 2022-23.

Item 20.13.3

To consider and approve the revision of the syllabus in Minor degree programme on “Industrial Automation” offered by Department of Electronics and Instrumentation Engineering under Regulations 2021.

Note on Agenda:

As per the suggestions from course faculty and students, few changes have been made in the course “EIDM2101Sensors and Transducers” in minor degree programme on “Industrial Automation”. In the 19th meeting of Board of Studies of Electronics and Instrumentation Engineering Department, the changes on the syllabus were deliberated. After deliberations, the Board has recommended the same for approval in the Academic Council

Course with syllabus revision:

Course Code	Course Title	Credits	Revision (%)
EIDM2101	Sensors and Transducers	3	10

The revised syllabus of the above course is given in [Annexure 20.13.3](#).

The Academic Council may consider and approve the same for implementation from the Academic Year 2023-24.

Resolution:

The agenda item was approved for implementation from the academic year 2023-24.

SCHOOL OF COMPUTER, INFORMATION AND MATHEMATICAL SCIENCES
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Item 20.14

To consider and approve the recommendations of the Board of Studies of the Department of Computer Science and Engineering.

Item 20.14.1

To consider and ratify the revised syllabi (CSC 3213 & CSC 3231) of B.Tech. CSE and B.Tech. CSE (Cyber Security) programmes under R2017

Note on Agenda:

In the 21st Board of Studies meeting for Computer Science and Engineering Department, which was held on 27th February 2023, the revised syllabi of “CSC 3213 – Graph Theory and Application” and “CSC 3231- Intrusion Detection and Internet Security” offered to VI semester B.Tech. CSE and B.Tech. CSE (Cyber Security) were deliberated. After deliberations, the Board has recommended the same for ratification in the Academic Council.

Course with syllabus revisions: Semester VI (AY 2022-23)

S. No	Course Code	Course Title	Credits	Revision (%)
1.	CSC 3213	Graph Theory and Application	4	30%
2.	CSC 3231	Intrusion Detection and Internet Security	3	40%

The syllabi of the above courses are given in [Annexure 20.14.1](#).

The Academic Council may consider and ratify the same for implementation from the even semester of academic year 2022-23.

Resolution:

The agenda item was ratified for implementation from the even semester of academic year 2022-23.

Item 20.14.2

To consider and ratify the revised curriculum and introduction of new laboratory course of B.Tech. CSE (Internet of Things) under R2017.

Note on Agenda:

The Department of CSE has introduced a new laboratory course “CSC 3216 - IoT Applications Laboratory” for VI semester B.Tech. CSE (IoT) students under R 2017. The syllabus was deliberated in the 21st Board of Studies meeting for Computer Science and Engineering Department, held on 27thFebruary 2023. After deliberations, the Board has recommended the same for ratification in the Academic Council.

New Laboratory Course (introduced): Semester VI (AY 2022-23)

S.No	Course Code	Course Title	Credits
1.	CSC 3216	IoT Applications Laboratory	1

The revised curriculum and syllabus of “CSC 3216 - IoT Applications Laboratory”for B.Tech. CSE (Internet of Things) under R 2017 is given in [Annexure 20.14.2](#).

The Academic Council may consider and ratify the same for implementation from the even semester of academic year 2022-23.

Resolution:

The agenda item was ratified for implementation from the even semester of academic year 2022-23.

Item 20.14.3

To consider and approve the revision of the elective course (CSDX 121- Graph Theory and its Applications) for B.Tech. CSE programme under Regulations 2021.

Note on Agenda:

The revision in the syllabus of elective course “CSDX 121 – Graph Theory and its Applications” to be offered in the VII semester of B.Tech. CSE programme under R 2021 was deliberated in the 21st Board of Studies meeting for Computer Science and Engineering Department, which was held on 27th February 2023. The board has recommended the same for approval in the Academic Council.

Course with syllabus revision:

S. No.	Course Code	Course Title	Credits	Revision (%)
1.	CSDX 121	Graph Theory and its Applications	3	5%

The syllabus of the elective course “CSDX 121 – Graph Theory and its Applications” to be offered in the VII semester of B.Tech. CSE programme under R 2021 is given in [Annexure 20.14.3](#)

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

The agenda item was approved for implementation from the academic year 2023-24.

Item 20.14.4

To consider and approve the revision of course (CSD 2151-Foundations of Data Structures) of B.Tech. Artificial Intelligence and Data Science programme under Regulations 2021.

Note on Agenda:

The revision in the syllabus of core course “CSD 2151-Foundations of Data Structures” offered in the III semester of B.Tech. Artificial Intelligence and Data Science programme under R 2021 was deliberated in the 21st Board of Studies meeting for Computer Science and Engineering Department, which was held on 27th February 2023. The board has recommended the same for approval in the Academic Council.

Course with syllabus revision: AY 2023-24 (III semester)

S.No	Course Code	Course Title	Credits	Revision (%)
1.	CSD 2151	Foundations of Data Structures	3	40%

The syllabus of the core course “CSD 2151-Foundations of Data Structures” offered in the III semester of B.Tech. Artificial Intelligence and Data Science programme under R 2021 is given in [Annexure 20.14.4](#)

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

After deliberations, the agenda item was approved for implementation from the academic year 2023-24.

Item 20.14.5

To consider and ratify the revised Programme Educational Objectives and Programme Specific Outcomes for the B.Tech (CSE) programme

Note on Agenda:

The revised Programme Educational Objectives and Programme Specific Outcomes of the Under Graduate programmes of B.Tech. Computer Science and Engineering was deliberated in the 21st Board of Studies meeting for Computer Science and Engineering Department, which was held on 27thFebruary 2023.

After deliberations, the Board has recommended the same for ratification in the Academic Council.

The revised Programme Educational Objectives and Programme Specific Outcomes of the Under Graduate programmes of B.Tech (CSE) are enclosed in [Annexure 20.14.5](#).

The Academic Council may consider and ratify the same for implementation from the academic year 2022-23.

Resolution:

After deliberations, the agenda item was ratified.

Item 20.14.6

To consider and approve the open elective course for M.Tech. programmes under Regulations2022.

Note on Agenda:

The syllabus of the following open elective course to be offered from Department of Computer Science & Engineering to other M.Tech. programmes under R2022 was deliberated in the 21st Board of Studies meeting of Computer Science and Engineering Department, which was held on 27thFebruary 2023.

After deliberations, the Board has recommended the same for approval in the Academic Council.

New open elective course (proposed):

Course Code	Course Title	Credits
OEEY	Artificial Intelligence and IoT	3

The syllabus of the above mentioned open elective course is given in [Annexure 20.14.6](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2023-24.

Resolution:

After deliberations, the agenda item was approved for implementation from the academic year 2023-24.

DEPARTMENT OF INFORMATION TECHNOLOGY

Item 20.15

To consider and approve the recommendations of the Board of Studies of the Department of Information Technology.

Item 20.15.1

To consider and ratify the minor revision in curriculum and syllabus of “ITE 6202 - Machine Learning Algorithms” in M.Tech. Information Technology under Regulations 2022.

Note on Agenda:

The major revisions in curriculum of M.Tech. Information Technology under R 2022 and syllabi were approved in the 19th meeting of Academic Council held on 29.09.2022.

In the 17th meeting of Board of Studies of Department of Information Technology which was held on 28.02.2023, the minor revision in curriculum and syllabus of core course “ITE 6202 - Machine Learning Algorithms” has been discussed and its credit is reduced to 3 from 4 (by removing tutorial hour) in II semester. After deliberations, the Board has recommended the same for ratification in the Academic Council.

The revised curriculum and syllabus of “ITE 6202 - Machine Learning Algorithms” of M.Tech. Information Technology under R 2022 is given in [Annexure 20.15.1](#).

The Academic Council may consider and ratify the same for implementation from the even semester of academic year 2022-23.

Resolution:

The above agenda item was ratified.

Item 20.15.2

To consider and approve the open elective course for M.Tech. programmes under Regulations 2022.

Note on Agenda:

The syllabus of the following open elective course to be offered from Department of Information Technology to other M.Tech. programmes under R2022 was deliberated in the 17th meeting of Board of Studies of the Department of Information Technology which was held on 28.02.2023. After deliberations, the Board has recommended the same for approval in the Academic Council.

New open elective course (proposed):

Course Code	Course Title	Credits
OEEY	Data Science and Machine Learning	3

The syllabus of the above mentioned open elective course is given in [Annexure 20.15.2](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2023-24.

Resolution:

The agenda item was approved for implementation from the academic year 2023-24.

DEPARTMENT OF COMPUTER APPLICATIONS

Item 20.16

To consider and approve the recommendations of Board of Studies of the Department of Computer Applications.

Item 20.16.1

To consider and approve the syllabi of the programme core and professional elective courses (Semester V & VI) of BCA programme, with specialization in Cloud Technology & Information Security, Multimedia and Web Application Development and Data Science under regulations 2021.

Note on Agenda:

The major revisions in curriculum of BCA programme, with specialization in Cloud Technology & Information Security, Multimedia and Web Application Development and Data Science under R 2021 and syllabi of I to IV Semester courses were approved in the 17th& 18th meeting of Academic Council respectively.

In the 19th meeting of Board of Studies of Computer Applications Department, which was held on 13-02-2023, the syllabi of programme core and professional elective courses (Semester V – VI) were deliberated. After deliberations, the Board has recommended the

same for approval in the Academic Council.

The salient features of BCA programme curriculum under R-2021 with respect to “Introduction of New courses” and “Courses with Syllabus revisions” are as follows:

I. Semester V & VI

a) New courses proposed:(AY 2023-24)

Course Code	Course Title	Credits
CAD 3108	Full Stack Technologies	4
CADX 108	Cloud Services for Data Science	3
CADX 118	Cloud Services Laboratory	1

b) Courses with Syllabus revision:(AY 2023-2024)

Course Code	Course Title	Credits	Revision (%)
CAD3101	Logical Reasoning and Thinking	3	20
CAD3201	Enterprise Application Development	3	50
CADX109	Virtualization And Cloud Security:	3	40
CADX107	Games, Arts and Design	3	20

The syllabi of the courses (V & VI semesters) of the BCA programme under Regulations 2021 are given in [Annexure 20.16.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

After deliberations, the agenda item was approved for implementation from the academic year 2023-24.

Item 20.16.2

To consider and approve the syllabi of the programme core and professional elective courses (Semester V & VI) of B.Sc. Computer Science programme, regulations 2021.

Note on Agenda:

The major revisions in curriculum of B.Sc. Computer Science programme, under R 2021 and syllabi of I to IV Semester courses were approved in the 17th & 18th meeting of Academic Council respectively.

In the 19th meeting of Board of Studies of Computer Applications Department, which was held on 13-02-2023, the syllabi of programme core and professional elective courses

(Semester V – VI) were deliberated. After deliberations, the Board has recommended the same for approval in the Academic Council.

The salient features of B.Sc. Computer Science programme curriculum under R2021 with respect to “Introduction of New courses” are as follows:

I. Semester V & VI

a) New courses proposed: (AY 2023-24)

Course Code	Course Title	Credits
CAD3102	Full Stack Development	3
CAD3103	Cyber Security	3
CAD3104	Cloud Services	3
CAD3106	Full Stack Development Laboratory	2
CAD3107	Cloud Services Laboratory	2
CAD3203	Data Visualization (Lab Integrated Theory)	4

b) Courses with Syllabus revision:(AY 2023-24)

Course Code	Course Title	Credits	Revision (%)
CAD3101	Logical Reasoning and Thinking	3	20
CAD3105	Software Testing	3	20
CAD3201	Enterprise Application Development	3	50

The syllabi of the courses (V & VI semesters) of the B.Sc. Computer Science programme under Regulations 2021 is given in [Annexure 20.16.2](#)

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

After deliberations, the agenda item was approved for implementation from the academic year 2023-24.

Item 20.16.3

To consider and approve the syllabi of the programme core and professional elective courses (Semester III & IV) of BCA programme, with specialization in Artificial Intelligence and Cyber Security under Regulations 2021.

Note on Agenda:

The major revisions in curriculum of BCA programme, with specialization in

Artificial Intelligence and Cyber Security under R 2021 and syllabi of I & II Semester courses were approved in the 19th meeting of Academic Council.

In the 19th meeting of Board of Studies of Computer Applications Department, which was held on 13-02-2023, the syllabi of programme core and professional elective courses (Semester III – IV) were deliberated. After deliberations, the Board has recommended the same for approval in the Academic Council.

The salient features of BCA programme, with specialization in Artificial Intelligence and Cyber Security programme curriculum under R2021 with respect to “Introduction of New courses” are as follows:

I. Semester III & IV

a) New courses proposed: (AY 2023-24)

Semester III

Sl. No.	Course Code	Course Title	Credits
1.	CAD 2101	Design and analysis of Algorithm	3
2.	CAD 2102	Software Engineering	3
3.	CAD 2103	Relational Database Management System	3
4.	CAD 2104	Computer Networks	3
5.	CAD 2105	Programming in Java	3
6.	CADX 122	Technology Core I Introduction to Artificial Intelligence	3
7.	CAD 2106	Relational Database Management System Laboratory	2
8.	CAD 2107	Programming in Java Laboratory	2
9.	GED 2102	Aptitude and Interpersonal Skills	1
10.	CADX128	Technology Core I Introduction to Cyber Security	

SEMESTER IV

Sl. No.	Course Code	Course Title	Credits
1.	CAD 2201	Python Programming	3
2.	CADX 219	Technology Core II Introduction to Machine Learning Techniques	3
3.	CADX 220	Technology Core III Digital Image Processing	3

4.	CADX 221	Technology Core IV Knowledge Engineering	3
5.	CAD 2203	Python Programming Laboratory	2
6.	CADX 222	Technology Core Lab – I Digital image Processing Laboratory	2
7.	CADX 224	Technology Core II Ethical Hacking	3
8.	CADX225	Technology Core III Web and Mobile Application Security	3
9.	CADX226	Technology Core IV Cryptography and Network Security	3
10.	CADX227	Technology Core Lab – I Ethical Hacking Lab	3

The syllabi of the courses (III & IV semesters) of the BCA (Artificial Intelligence) & BCA (Cyber Security) programme under Regulations 2021 are given in [Annexure 20.16.3](#).

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

After deliberations, the agenda item was approved for implementation from the academic year 2023-24.

Item 20.16.4

To consider and approve the curriculum and syllabi (I & II Semester) of BCA programme, with specialization in Data Analytics under Regulations 2021.

Note on Agenda:

A new UG programme BCA (Data Analytics) was approved in the 18th Academic Council to be offered in the Madurai Campus. The curriculum and syllabi (I & II semester) was deliberated in the 18th meeting of Board of Studies of Computer Applications Department, which was held on 15.11.2022. After deliberations, the Board has recommended the same for approval in the Academic Council.

The salient features of BCA (Data Analytics) programme curriculum under R2021 with

respect to “Introduction of New courses” are as follows:

I. Semester III & IV (AY 2024-2025)

a) New courses proposed:

Semester III

Sl. No.	Course Code	Course Title	Credits
1.	CADX132	Technology Core I Introduction to Data Analytics	3

Semester IV

Sl. No.	Course Code	Course Title	Credits
1.	CADX214	Technology Core II Exploratory Data Analysis	3
2.	CADX207	Technology Core III Big Data Analytics	3
3.	CADX202	Technology Core IV Business Intelligence	3
4.		Programme Elective – I	3
5.	CADX211	Technology Core Lab – I Big Data Analytics Laboratory	2

III. Semester V & VI (AY 2025-26)

a) New courses proposed:

Semester V

Sl. No.	Course Code	Course Title	Credits
1.	CADX133	Technology Core V Machine Learning Algorithms	3
2.	CADX134	Technology Core VI Data Visualization with Tableau	3
3.	CADX135	Technology Core VII Time Series Analysis	3
4.		Programme Elective – II	3
5.	CADX136	Technology Core Lab – II Machine Learning Algorithms Laboratory	2
6.	CADX137	Technology Core Lab – III Data Visualization with Tableau Laboratory	2

Semester VI

Sl. No.	Course Code	Course Title	Credits
1.	CADX229	Technology Core VIII Data Analytics Project Management	3

The curriculum and syllabi of the courses (I & II semesters) of the BCA (Data Analytics) programme under Regulations 2021 are given in [Annexure 20.16.4](#).

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

After deliberations, the agenda item was approved for implementation from the academic year 2023-24.

Item 20.16.5

To consider and approve the curriculum and syllabi (I & II Semester) of B.Sc. (Artificial Intelligence) under Regulations 2021.

Note on Agenda:

A new UG programme B.Sc. (Artificial Intelligence) was approved in the 18th Academic Council to be offered in the Madurai Campus. The curriculum and syllabi (I & II semester) was deliberated in the 18th meeting of Board of Studies of Computer Applications Department, which was held on 15-11-2022. After deliberations, the Board has recommended the same for approval in the Academic Council.

The salient features of B.Sc. (Artificial Intelligence) programme curriculum under R-2021 with respect to “Introduction of New courses” are as follows:

I. Semester III & IV (AY 2024-25)

a) New courses proposed: Semester III

Sl. No.	Course Code	Course Title	Credits
1.	CAD2109	Technology Core I Introduction to Artificial Intelligence	3

Semester IV

Sl. No.	Course Code	Course Title	Credits
1.	CAD2208	Technology Core II Cognitive Computing	3
2.	CAD2209	Technology Core III Data Mining and Data Warehousing	3
3.	CAD2210	Technology Core IV Cloud Computing	3

III. Semester V & VI (AY 2025-26)

a) New courses introduced.

Semester V

Sl. No.	Course Code	Course Title	Credits
1.	CAD3110	Technology Core V Natural Language Processing	3
2.	CAD3111	Technology Core VI Human Computer Interaction	3
3.	CAD3112	Technology Core VII Data Analysis and Visualization using python / R	3
4.		Programme Elective – II	3
5.	CAD3113	Technology Core Lab –II Natural Language Processing Laboratory	2
6.	CAD3114	Technology Core Lab – III Data Analysis and Visualization using python / R Laboratory	2

Semester VI

Sl. No.	Course Code	Course Title	Credits
1.	CAD3204	Technology Core VIII Robotics and Automation	3

The curriculum and syllabi of the courses (I & II semesters) of the B.Sc.(Artificial Intelligence) programme under Regulations 2021 are given in [Annexure 20.16.5.](#)

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

After deliberations, the agenda item was approved for implementation from the academic year 2023-24.

Item 20.16.6

To consider and approve the curriculum and syllabi (I & II Semester) of M.Sc. (Artificial Intelligence) and M.Sc.(Data Science) under Regulations 2022.

Note on Agenda:

A new PG programmes M.Sc.(Artificial Intelligence) and M.Sc. (Data Science) was approved in the 18th Academic Council to be offered in the Madurai Campus. The curriculum and syllabi (I & II semester) was deliberated in the 18th meeting of Board of Studies of Computer Applications Department, which was held on 15-11-2022. After deliberations, the Board has recommended the same for approval in the Academic Council.

The salient features of M.Sc.(Artificial Intelligence) and M.Sc. (Data Science) programmes curriculum under R2022 with respect to “Introduction of New courses” and “Courses with Syllabus revisions” are as follows:

M.Sc.(Data Science)

I. Semester I & II (AY 2023-24)

a) New courses introduced.

Semester I

Sl. No.	Course Code	Course Title	Credits
1.	MAE6181	Mathematical Foundations for Data Science	3
2.	CAE6141	Advanced DBMS(Lab Integrated Theory)	4
3.	CAE6142	Principles of Data Science	3
4.	CAE6143	Python Programming for Data Science	3
5.		Professional Elective I	3
6.		Professional Elective II	3
7.	CAE6144	Python Programming Lab for Data Science	1
8.	ENE6181	Professional Communication	3

Semester II

Sl. No.	Course Code	Course Title	Credits
1.	GEE6202	Research Methodology and IPR	3
2.	CAE6241	Machine Learning Techniques	3
3.	CAE6242	Big Data Analytics	3
4.	CAE6243	Probability and Statistics for Data Science	3

5.		Professional Elective III	3
6.		Professional Elective IV	3
7.	CAE6244	Machine Learning Lab	1
8.	CAE6245	Big Data Analytics Lab	1
9.	CAE6236	Industrial Internship	2

II. Semester III & IV (AY 2025-26)

a) New courses introduced.

Semester III

Sl. No.	Course Code	Course Title	Credits
1.	MAE 7181	Regression and Time Series Analysis	3
2.		Open Elective	3
3.	CAE7141	Deep Learning Techniques	3
4.	CAE7142	NoSQL Databases	3
5.	CAE7143	Deep Learning Lab	1
6.		Professional Elective V	3
7.		Professional Elective VI	3
8.	CAE7144	Project Work - Phase I (Added in Phase 2)	4
9.		MOOC (Related to project)	-

Semester IV

Sl. No.	Course Code	Course Title	Credits
1.	CAE7144	Project Work - Phase II	16

LIST OF PROFESSIONAL ELECTIVE COURSES

Semester - I

Sl. No.	Course Code	Course Title	Credits
1.	CAEY111	Cloud Computing	3
2.	CAEY112	R Programming	3
3.	CAEY113	Data Mining and Warehousing	3
4.	CAEY114	Web Mining	3
5.	CAEY115	Object Oriented Software Engineering	3

Semester - II

Sl. No.	Course Code	Course Title	Credits
6.	CAEY211	Human Computer Interaction	3
7.	CAEY212	Internet of Things and its Applications	3
8.	CAEY213	Artificial Intelligence	3
9.	CAEY214	Business Intelligence	3
10.	CAEY215	Exploratory Data Analysis	3

Semester - III

Sl. No.	Course Code	Course Title	Credits
11.	CAEY311	Data Science Project Management	3
12.	CAEY312	Health Care Analytics	3
13.	CAEY313	Social Media Analytics	3
14.	CAEY314	Web Analytics	3
15.	CAEY315	Data Visualization	3

M.Sc. (Artificial Intelligence)

I. Semester I & II (AY 2023-24)

a) New courses proposed:

Semester I

Sl. No.	Course Code	Course Title	Credits
1.	MAE 6181	Mathematical Foundations for Artificial Intelligence	3
2.	CAE6131	Advanced DBMS(Lab Integrated Theory)	4
3.	CAE6132	Principles of Artificial Intelligence	3
4.	CAE6133	Python Programming for AI	3
5.		Professional Elective I	3
6.		Professional Elective II	3
7.	CAE6134	Python Programming Lab for AI	1
8.	ENE6181	Professional Communication	3

Semester II

Sl. No.	Course Code	Course Title	Credits
1.	GEE6202	Research Methodology and IPR	3

2.	CAE6231	Machine Learning Techniques	3
3.	CAE6232	Knowledge Representation and Reasoning	3
4.	CAE6233	Natural Language Processing	3
5.		Professional Elective III	3
6.		Professional Elective IV	3
7.	CAE6234	Machine Learning Lab	1
8.	CAE6235	Natural Language Processing Lab	1
9.	CAE6236	Industrial Internship	2

II. Semester III & IV (AY 2025-26)

a) New courses introduced.

Semester III

Sl. No.	Course Code	Course Title	Credits
1.	CAE7131	Computer Vision	3
2.		Open Elective	3
3.	CAE7132	Internet of Things	3
4.	CAE7133	Deep Learning Techniques	3
5.	CAE7134	Deep Learning Lab	1
6.		Professional Electives V	3
7.		Professional Electives VI	3
8.	CAE7135	Project Work - Phase I (Added in Phase 2)	4
9.		MOOC (Related to project)	-

Semester IV

Sl. No.	Course Code	Course Title	Credits
1.	CAE7135	Project Work - Phase II	16

LIST OF PROFESSIONAL ELECTIVE COURSES

SEMESTER - I

Sl. No.	Course Code	Course Title	Credits
1	CAEY101	Digital Image Processing	3
2	CAEY102	Cloud Computing	3
3	CAEY103	Object Oriented Software Engineering	3

SEMESTER - II

Sl. No.	Course Code	Course Title	Credits
1	CAEY201	Pattern Recognition	3
2	CAEY202	Text mining and Analytics	3
3	CAEY203	Human Computer Interaction	3

SEMESTER - III

Sl. No.	Course Code	Course Title	Credits
1	CAEY301	Data Exploration and Visualization	3
2	CAEY302	Image and Video Analytics	3
3	CAEY303	Cognitive Computing	3
4	CAEY304	Soft Computing	3
5	CAEY305	Automation and Robotics	3

The curriculum and syllabi of the courses (I & II semesters) of the M.Sc. (Artificial Intelligence) and M.Sc. (Data Science) programmes under Regulations 2021 are given in **Annexure [20.16.6 \(A\)](#) and [20.16.6 \(B\)](#).**

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

After deliberations, the agenda item was approved for implementation from the academic year 2023-24.

Item 20.16.7

To consider and ratify the revised PEOs and PSOs of Master of Computer Applications programme under Regulations 2019.

Note on Agenda:

The revised PEOs and PSOs of Master of Computer Applications programme under Regulations 2019 were deliberated in the 18th meeting of Board of Studies of Computer Applications Department, which was held on 15-11-2022. After deliberations, the Board has recommended the same for ratification in the Academic Council.

The revised PEOs and PSOs of Master of Computer Applications programme under Regulations 2019 are given in [Annexure 20.16.7](#).

The Academic Council may consider and ratify the same for implementation from the academic year 2022-23.

Resolution:

The above agenda item was ratified.

DEPARTMENT OF MATHEMATICS AND ACTUARIAL SCIENCE

Item 20.17

To consider and approve the recommendations of the Board of Studies of Department of Mathematics & Actuarial Science.

Item 20.17.1

To consider and ratify the revised syllabi of the courses offered by Department of Mathematics and Actuarial Science for M.Tech. (AI&DS) Programme under Regulations 2022.

Note on Agenda:

The Department of Mathematics and Actuarial Science is offering various courses for M.Tech. Programmes under R 2022 to cater the needs. This was deliberated in the 15^h meeting of Board of Studies of Department of Mathematics and Actuarial Science, which was held on 24.11.2022 and the board has recommended the same for ratification in the Academic Council.

The details of courses offered to M.Tech AI&DS programme under R2022 are as follows:

Courses with Syllabus revisions: (AY: 2022-23)

Course Code	Course Title	Credits	Revision (%)
MAEY 01	Linear algebra	3	25%
MAEY 02	Time series analysis	3	25%

The syllabi of the above elective courses are given in [Annexure 20.17.1](#)

The Academic Council may consider and ratify the same for implementation from the academic year 2022-23.

Resolution:

The above agenda item was ratified.

Item 20.17.2

To consider and approve the syllabi of courses offered by Department of Mathematics and Actuarial Science for B.Sc. (Artificial Intelligence) & BCA (Data Analytics) under Regulations 2021.

Note on Agenda:

The Department of Mathematics and Actuarial Science is offering the following new mathematics core courses for the new UG programme B.Sc. (Artificial Intelligence) & BCA (Data Analytics) under R 2021 to be offered in Madurai Campus. This was deliberated in the 15th meeting of Board of Studies of Department of Mathematics and Actuarial Science, which was held on 24.11.2022 and the Board has recommended the same for approval in the Academic Council.

New courses proposed: Semester I & II (AY 2023-24)

Course Code	Course Title	Credits
MAD 1191	Algebra and numerical methods	4
MAD 1291	Statistics for data analytics	4
MAD 1292	Discrete mathematics	4

The syllabi of the above courses to be offered for B.Sc. (Artificial Intelligence)& B.C.A. (Data Analytics) under R 2021 are given in [Annexure 20.17.2](#)

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

After deliberations, the agenda item was approved for implementation from the academic year 2023-24.

Item 20.17.3

To consider and approve the syllabi of courses offered by Department of Mathematics and Actuarial Science for M.Sc. (Artificial Intelligence)& M.Sc. (Data

Science) under Regulations 2022.

Note on Agenda:

The Department of Mathematics and Actuarial Science is offering the following new mathematics core courses for the new PG programme **M.Sc. (Artificial Intelligence) & M.Sc. (Data Science)** under R 2022 to be offered in Madurai Campus. This was deliberated in the 15th meeting of Board of Studies of Department of Mathematics and Actuarial Science, which was held on 24.11.2022 and the board has recommended the same for approval in the Academic Council.

New courses proposed: Semester I & II (AY 2023-24)

Course Code	Course Title	Credits
MAE 6191	Mathematical Foundation for Artificial Intelligence	4
MAE 6192	Mathematical Foundation for Data Science	4
MAE 6291	Probability and Statistics for Data Science	4
MAE 6391	Regression and Time Series Analysis	4

The syllabi of the above courses to be offered for M.Sc. (Artificial Intelligence) & M.Sc. (Data Science) under R 2022 are given in [Annexure 20.17.3](#).

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

After deliberations, the agenda item was approved for implementation from the academic year 2023-24.

**CRESCENT SCHOOL OF BUSINESS
 DEPARTMENT OF MANAGEMENT STUDIES**

Item 20.18

To consider and approve the recommendations of the Board of Studies of the Department of Management Studies.

Item 20.18.1

To consider and approve the revision in the curriculum of MBA program and introduction of the course “MSE 7203 - Business Ethics and Corporate Social Responsibility” under Regulations 2021.

Note on Agenda:

It is proposed to offer the course “MSE 7203 - Business Ethics and Corporate Social Responsibility” for the MBA programme under R 2021, as a choice to MOOC course in the IV semester. The syllabus was deliberated in the 14th meeting of Board of Studies of Department of Management Studies, which was held on 17th February 2023. After deliberations, the Board has recommended the same for approval in the Academic Council.

New course introduced: Semester IV (AY 2022-23)

Course Code	Course Title	Credits
MSE 7203	Business Ethics and Corporate Social Responsibility	3

The revision in the curriculum and syllabus of the course “MSE 7203 - Business Ethics and Corporate Social Responsibility” under Regulations 2021 is given in [Annexure 20.18.1](#)

The Academic Council may consider and approve the same for implementation from the even semester of the academic year 2022-23.

Resolution:

After deliberations, the agenda item was approved for implementation from the even semester of academic year 2022-23.

Item 20.18.2

To consider and ratify the revised list of skill certification topics for MBA (IEV) programme under Regulations 2021.

Note on Agenda:

In the 14th meeting of Board of Studies of Crescent School of Business, which was held on 17th February, 2023, the revised list of skill certification topics was deliberated for MBA (IEV) programme under Regulations 2021. After deliberations, the Board has recommended the same for approval in the Academic Council.

The revised list of skill certification topics offered to MBA (IEV) programme under Regulations 2021 is given [Annexure 20.18.2](#)

The Academic Council may consider and ratify the same for implementation from the academic year 2022-23.

Resolution:

The above agenda item was ratified.

Item 20.18.3

To consider and ratify the syllabi for the Ph.D. courses.

Note on Agenda:

The syllabi of the Ph.D. courses offered to research scholars from the Department of Management Studies were deliberated in the 14th meeting of Board of Studies held on 17th February, 2023. After deliberations, the Board has recommended the same to ratify in the Academic Council.

Course Code	Course Title	Credits
PHDZ 002	Research Methodology	4
PHDZ 001	Research & Publication Ethics	2

The syllabi of the Ph.D. courses offered from department of Management Studies to research scholars are given in [Annexure 20.18.3](#).

The Academic Council may consider and ratify the same for implementation from the even semester of the Academic Year 2022-23.

Resolution:

The above agenda item was ratified.

SCHOOL OF SOCIAL SCIENCES AND HUMANITIES

Item 20.19

To consider and approve the recommendations of the Board of Studies of the School of Social Sciences and Humanities.

Item 20.19.1

To consider and approve the curriculum and syllabi of programme core and professional elective courses (Semester I– II) of M.Sc. Counselling Psychology under Regulations 2022.

Note on Agenda:

In the 6th meeting of the Board of Studies of the School of Social Sciences and Humanities, which was held on 28/11/2022, the syllabi of programme core and professional elective courses of M.Sc. Counselling Psychology (Semester I – II) were deliberated. After deliberations, the Board has recommended the same for approval in the Academic Council.

The salient features of M.Sc. Counselling Psychology curriculum under R-2022 with respect to “Introduction of New courses” are as follows:

I. Semester I & II (AY 2024-25)

a) New courses proposed:

Course Code	Course Title	Credits
CPE 6101	Lifespan Development	4
CPE 6102	Psychology for Modern Life	4
CPE 6103	Foundations of Counselling	4
CPE 6104	Research Methods and Statistics	4
CPE 6105	Psychological Assessment	4
CPE 6106	Theories of Personality-1	4
CPE 6201	Theories of Personality	4
CPE 6202	Psychopathology	4
CPE 6203	Counselling Skills	4
CPE 6204	Counselling Theories and Techniques-I	4
CPE 6205	Counselling Practical	4
CPEY 001	Health Psychology/Child & Adolescent Counselling	2
CPEY 002	Social Psychology/Crisis & Trauma Intervention	2

The curriculum and syllabi of the courses (I & II semesters) of M.Sc. Counselling Psychology under R 2022 are given in [Annexure 20.19.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2024-25.

Resolution:

After deliberations, the agenda item was approved for implementation from the academic year 2024-25.

Item 20.19.2

To consider and approve the syllabi of programme core and professional elective courses (Semester I– II) of Master of Social Work under Regulations 2022.

Note on Agenda:

In the 6th meeting of the Board of Studies of the School of Social Sciences and Humanities, which was held on 28.11.2022, the syllabi of programme core and professional

elective courses of Master of Social Work(Semester I – II) were deliberated. After deliberations, the Board has recommended the same for approval in the Academic Council.

The salient features of Master of Social Work curriculum under R-2022 with respect to “Introduction of New courses” are as follows:

Semester I & II (AY 2024-25)

a) New courses proposed:

Course Code	Course Title	Credits
SWE 6101	Social Work Profession	3
SWE 6102	Social Work with Individuals	3
SWE 6103	Social work with Groups	3
SWE 6104	Sociology	2
SWE 6105	Psychology	2
SWE 6106	Field Work I	6
SWE 6107	Soft skills I–Personal and Interpersonal Connect	2
SWE 6201	Social Work with Communities	3
SWE 6202	Social Research and Statistics	3
SWE 6203	Social Policy& Planning (CD&MPSW) Human Resource Management (HRM)	3
SWE 6204	Basics of Counselling	2
SWE 6205	Management of Organizations	2
SWEY001	Social Legislation (CD&MPSW)	2
SWEY002	Labour Legislation–I(HRM)	2
SWE 6206	Field WorkII-Concurrent	6
SWE 6207	Soft skills II–Leadership and Team Building	2
SWE 6208	Summer Placement	2

The curriculum and syllabi of the courses (I & II semesters) of Master of Social Work R 2022 are given in [Annexure 20.19.2](#).

The Academic Council may consider and approve the same for implementation from the academic year 2024-25.

Resolution:

After deliberations, the agenda item was approved for implementation from the academic year 2024-25.

DEPARTMENT OF COMMERCE

Item 20.20

To consider and approve the recommendations of the Board of Studies of the Department of Commerce.

Item 20.20.1

To consider and approve the syllabi of programme core and professional elective courses (Semester III – IV) of B.Com Professional Accounting under Regulations 2021.

Note on Agenda:

The major revisions in curriculum of B.Com Professional Accounting under R 2021 and syllabi of I & II Semester courses were approved in the 19th meeting of Academic Council respectively. In the 18th meeting of Board of Studies of Commerce Department, which was held on 6th March 2023, the syllabi of programme core and professional elective courses (Semester III-IV) were deliberated. After deliberations, the Board has recommended the same for approval in the Academic Council.

The salient features of B.Com. (Professional Accounting) curriculum under R2021 with respect to “Introduction of New courses” are as follows:

Semester III & IV (AY 2023-24)

a) New courses proposed:

Course Code	Course Title	Credits
COD 2151	International Financial Accounting & Reporting - I	4
COD 2152	International Auditing-II	4
COD 2251	Cost Management	5
COD 2252	International Financial Accounting & Reporting – II	4
COD 2253	International Taxation -I	4
CODX 511	Financial Markets	4
CODX 512	Financial Services	4
CODX 513	Micro Finance	4
CODX 51	Business Research Methods	4
CODX 541	Market Research	4
CODX 542	Business Environment	4

The curriculum and syllabi of the courses (III & IV semesters) of B.Com. (Professional Accounting) under R 2021 are given in [Annexure 20.20.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

After deliberations, the agenda item was approved for implementation from the academic year 2023-24.

Item 20.20.2

To consider and approve the curriculum and syllabi of courses (Semester I– II) of BBA Entrepreneurship programme under Regulations 2021.

Note on Agenda:

In the 18th meeting of Board of Studies of Commerce Department, which was held on 15th November 2022, the curriculum and syllabi of courses (Semester I-II) of BBA Entrepreneurship programme were deliberated. After deliberations, the Board has recommended the same for approval in the Academic Council.

The salient features of BBA Entrepreneurship curriculum under R-2021 with respect to “Introduction of New courses” are as follows:

I. Semester I & II (AY 2023-24)

a) New courses proposed:

Course Code	Course Title	Credits
COD 1101	Financial Accounting	5
COD 1102	Business Organisation and Management	4
COD 1103	Environmental Studies	4
COD 1104	Business Intelligence using Excel and Access	2
COD 1105	Introduction to Indian Constitution	1
COD 1231	Fundamentals of Human Resources Management	4
COD 1232	Principles of Marketing	4
COD 1203	Business Economics	4
COD 1261	Fundamentals of Entrepreneurship	4
COD 1204	Public Speaking and Presentation Skills	1

The curriculum and syllabi of the courses (I & II semesters) of BBA Entrepreneurship under R 2021 are given in [Annexure 20.20.2](#)

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

After deliberations, the agenda item was approved for implementation from the academic year 2023-24.

DEPARTMENT OF PUBLIC POLICY

Item 20.21

To consider and approve the recommendations of the Board of Studies of the Department of Public Policy.

Item 20.21.1

To consider and approve the syllabi of programme core and professional elective courses (Semester V – VI) of B.A. Public Policy under Regulations 2021.

Note on Agenda:

The major revisions in the curriculum of B.A Public Policy under R 2021 and syllabi of I & II, III & IV Semester courses were approved in the 17th& 18th meeting of Academic Council respectively. In the 3rd meeting of the Board of Studies of the Public Policy Department, which was held on 27/03/2023, the syllabi of programme core and professional elective courses (Semester V – VIII) were deliberated. After deliberations, the Board has recommended the same for approval in the Academic Council.

The salient features of B.A. Public Policy curriculum under R-2021 with respect to “Introduction of New courses” and “Courses with Syllabus revisions” are as follows:

I. Semester V & VI (AY 2023-24)

a) New courses proposed:

Course Code	Course Title	Credits
PPD 3101	Introduction to Psychology	4
PPD 3102	India’s Foreign Policy	2
PPD 3103	Policy Science	3
PPD 3104	India’s Art and Culture-Pre History to Post Modern Times	3
PPD 3105	Value Education	2
PPD 3106	Verbal Reasoning	2
PPD 3107	Summer Internship	2
PPDX 13	NCC: Infantry Weapons and Map Reading	2
PPDX 14	World History	2

PPDX 15	Human Geography of India	2
PPDX 55	Comparative Constitution	3
PPD 3201	Sustainable Development Goals and Disaster Management	3
PPD 3202	Post Modern India	3
PPD 3203	India's Internal Security	2
PPD 3204	Administrative Ethics	3
PPD 3205	Current Events of National and International Importance	2
PPD 3206	Interpersonal Skills	3
PPD 3207	Public Policy Drafting Skills	
PPDX 16	NCC: Military Theory	3
PPDX 17	Indian Banking	3
PPDX 18	Design Thinking and Frugal Innovation	3
PPDX 57	Principles of Scientific Research	3
PPDX 58	India's Programs and Policies	3
PPDX 59	Politics in Tamil Nadu	3

The syllabi of the courses (V & VI semesters) of B.A Public Policy under R 2021 are given in [Annexure 20.21.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

After deliberations, the agenda item was approved for implementation from the academic year 2023-24.

CRESCENTSCHOOL OF LAW

Item 20.22

To consider and approve the recommendations of the Board of Studies of the Crescent School of Law

Item 20.22.1

To consider and approve the UGLaw Programmes Regulations 2023

Note on Agenda:

In order to ensure high-quality legal education, promote diversity and inclusion, respond to changes in the legal landscape, and address ethical concerns in the legal

profession, the Crescent School of Law considers to introduce new undergraduate Regulations, 2023 for Law Programmes viz., B.A., LL.B (Hons.) & B.B.A., LL.B (Hons) . The new Regulations has been shaped in accordance with the guidelines set forth by the Bar Council of India, while also taking into account the evolving requirements of the legal environment.

In the 9th meeting of Board of Studies of Crescent School of Law, which was held on 25th March, 2023, the Regulations, 2023 has been deliberated. After deliberations, the Board has recommended the same for approval in the Academic Council.

The salient features of R-2023 are as follows:

- The examination passing system comprises of end semester examination for 60 marks and internal examination for 40 marks. A student has to secure
 - (i) A minimum 50% of the marks in external examination (i.e. minimum 30 marks out of 60 in External Examination) and
 - (ii) A minimum 50% of marks in aggregate considering both end semester (60 marks) and internal examination (40 marks) (i.e. minimum of 50 out of 100 in aggregate).
- The Internal Assessment is scored against the following criteria: Case Analysis, Continuous Assessment Tests, Assignment, Presentation, Quizzes, Viva-Voce, Group Discussions, etc.
- Each registered student shall have completed minimum of 20 weeks in case of Five-Year Course stream during the entire period of legal studies under NGO, Trial and Appellate Advocates, Judiciary, Legal Regulatory authorities, Legislatures and Parliament, Other Legal Functionaries, Market Institutions, Law Firms, Companies, Local Self Government and other such bodies as the University shall stipulate, where law is practiced either in action or in dispute resolution or in management.
- The total marks allotted for internship is 100, which shall be continuously assessed every year and the consolidated marks will be awarded in the internship course of final semester.

The Regulations 2023 for UG law programmes is given in [Annexure 20.22.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

After deliberations, the agenda item was approved for implementation from the academic year 2023-24.

Item 20.22.2

To consider and approve the curriculum and syllabi (I to IV semesters) of B.A.,LL.B (Hons.) and B.B.A.,LL.B (Hons.) under Regulations 2023.

Note on Agenda:

In the 9th meeting of Board of Studies of Crescent School of Law, which was held on 25th March 2023, the curriculum of B.A., LL.B (Hons.) and B.B.A., LL.B (Hons.) (semester I to X) and syllabi (I to IV semesters) were deliberated. After deliberations, the Board has recommended the same for approval in the Academic Council.

The curriculum and syllabi (I to IV semester) of B .A., LL.B (Hons.) and B.B.A., LL.B (Hons.) under R-2023 are given in Annexure 20.22.2(a) and Annexure 20.22.2(b).

a) New courses proposed:

Course Code	Course Title	Credits
BLE 1201	Legal Language	4
BLE 2204	International Relations	4
BLE 3104	Parliamentary system in India	4
BLE 4105	Clinical course - II - Alternative Dispute Resolution Including Mediation	4
BLE 5203	Internship & Practical Training	4

The curriculum and syllabi (I to IV semester) of B .A.,LL.B (Hons.) and B.B.A.,LL.B (Hons.) under R 2023 are given in [Annexure 20.22.2\(a\)](#) and [Annexure 20.22.2\(b\)](#).

The Academic Council may consider and approve the same for implementation from the academic year 2023-24.

Resolution:

After deliberations, the agenda item was approved for implementation from the academic year 2023-24.

Item 20.22.3

To consider and approve the revision in syllabi of (V & VI Semester) core courses of B.A.LL.B (Hons.) and B.B.A.,LL.B (Hons.) under Regulations 2019.

Note on Agenda:

The revision in the following core courses offered for the V & VI Semester in B.A., LL.B (Hons.) and B.B.A., LL.B (Hons.) under R 2019 were deliberated in the 9th of Board of Studies of Crescent School of Law held on 25th March 2023. After deliberations, the Board has recommended the same for approval in the Academic Council.