



Minutes of

21st Meeting of Academic Council

held on

20th December, 2023

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

Minutes of the 21st meeting of Academic Council

Date: 20.12.2023

Time: 10.00 a.m.

Venue: Seminar Hall III, Convention Centre

The following members were attended the meeting:

1. Prof. Dr. T. Murugesan, Vice Chancellor
2. Prof. Dr. N Thajuddin, Pro Vice Chancellor
3. Dr. N. Raja Hussain, Registrar
4. Prof. V. Murugesan, Advisor
5. Dr. P.S. Syed Masood Jamali, Advisor
6. Dr. Bashir Alam, Professor, Department of Computer Engineering, Jamia Millia Islamia, Central University, New Delhi.
7. Dr. Ranjani Parthasarathy, Former Professor, Department of IST, Anna University, Chennai.
8. Mr. Arul Raj Kumar, Vice President, Ford Motor India Ltd., Chengalpattu.
9. Dr. M. Saravanan, Principal Researcher - Ericsson Research, Artificial Intelligence & Machine Learning Group, Ericsson India Global Services, Perungudi, Chennai.
10. Dr. M. Mohamed Ismail, Dean (Academic Affairs)
11. Dr. J. Revathy, Dean (Research)
12. Dr. Karthikeyan Ramalingam, Dean (Student Affairs)
13. Dr. S. Kaja Mohideen, Controller of Examinations
14. Dr. A. Abudhahir, Director (IQAC) & Professor, Department of Electronics & Instrumentation Engineering
15. Dr. Syed Mohamed Abdul Majeed, Director (Admissions) & Professor, Dept. of Polymer Engineering
16. Dr. M.S. Haji Sheik Mohammed, Dean (School of Infrastructure)
17. Dr. H. Siddhi Jailani, Dean (School of Mechanical Sciences)
18. Dr. C. Tharini, Dean (School of Electrical & Communication Sciences)
19. Dr. Sharmila Sankar, Dean (School of Computer, Information and Mathematical Sciences)
20. Dr. S. Hemalatha, Dean (School of Life Sciences)
21. Dr. I. Raja Mohamed, Dean (School of Physical and Chemical Sciences)
22. Dr. K. Srinivasan, Dean (Crescent School of Business)
23. Ar. G. Jayalakshmi, Dean (Crescent School of Architecture)

24. Dr. A. Abdul Hai Hasani Nadwi, Dean (School of Arabic & Islamic Studies)
25. Dr. M. Vijaya Vara Prasad, Dean (Crescent School of Pharmacy)
26. Dr. C. Chockalingam, Dean (Crescent School of Law)
27. Mr. M. Parvez Alam, Executive Director, Crescent Innovation and Incubation Centre
28. Dr. A.S. Selva Kumar, Head, Mechanical Engineering
29. Dr. P.N. Kadiresh, Head, Dept. of Aerospace
30. Dr. P.D. Jeyakumar, Head, Dept. of Automobile Engineering
31. Dr. S. Shamshath Begum, Head (Incharge), Department of Polymer Engineering
32. Dr. R. Jayashree, Head, Department of Electrical and Electronics Engineering
33. Dr. B. Vijayalakshmi, Head, Department of Electronics & Communication Engineering
34. Dr. D. Najumnissa Jamal, Head, Department of Electronics & Instrumentation Engineering
35. Dr. W. Aisha Banu, Head, Department of Computer Science Engineering
36. Dr. N. Prakash, Head, Department of Information Technology
37. Dr. S. Pakkir Mohideen, Head, Dept. of Computer Application
38. Dr. Sindhu J. Kumar, Head, Department of Mathematics & AS
39. Dr. G.V. Vijayaraghavan, Head, Department of Physics
40. Dr. N. Hajara Beevi, Head, Department of Chemistry
41. Dr. P Rathna, Head, Department of English
42. Dr. K. Soundarapandiyan, Head, Department of Commerce
43. Dr. R. Radhai, Head, Department of Public Policy
44. Dr. S. Rasool Mohideen, Professor, Dept. of Mechanical Engineering
45. Dr. A.Jaya, Professor, Dept. of Computer Applications
46. Dr. Latha Tamilselvan, Professor, Dept. of Information Technology
47. Dr. P. Gajalakshmi, Professor, Department of Civil Engineering
48. Dr. P.K. Jawahar, Professor, Department of Electronics & Communication Engineering
49. Dr. S. Panboli, Professor, Department of Management Studies
50. Dr. S. Sathik Basha, Professor, Dept. of Physics
51. Dr. K. Yogeswari, Professor, Dept. of Civil Engineering
52. Dr. G. Kavitha, Professor, Dept. of Information Technology
53. Dr. M.A. Sai Balaji, Associate Professor, Department of Mechanical Engineering
54. Dr. A. Shajahan, Associate Professor, Department of Chemistry
55. Dr. J. Mahashar Ali, Associate Professor (Sr. Gr.), Department of Mechanical Engineering
56. Dr. P. Panneerselvam, Librarian

57. Mr. Fadhil Ahmed Abdul Kadar, III year CSE

58. Mr. Mohamed Anas II yr, B.Com.(Hons.)

Welcome Address by the Vice Chancellor

The Vice Chancellor extended a warm welcome to the esteemed members of Academic Council and introduced the recently appointed distinguished external experts viz. Dr. Bashir Alam, Professor, Department of Computer Engineering, Jamia Millia Islamia, Central University, New Delhi, Dr. Ranjani Parthasarathy, Former Professor, Department of IST, Anna University, Mr. Arul Raj Kumar, Vice President, Ford Motor India Ltd. Chengalpattu, Dr. M. Saravanan, Principal Researcher - Ericsson Research, Artificial Intelligence & Machine Learning Group, Ericsson India Global Services, Perungudi, Chennai.

Additionally, heartfelt gratitude was conveyed to the departing members for their unwavering commitment and dedicated service as members of the Academic Council. The Vice Chancellor expressed appreciation for their significant contributions recognizing the pivotal roles they played during their tenure. In a gesture of acknowledgment, the Vice Chancellor thanked the outgoing members, highlighting the value of their dedication. Then the members present had the opportunity to introduce themselves, and to provide a visual insight into the Institute, a brief video presentation was shared with the members.

Report on the academic activities of the Institution from previous Academic Council Meeting held on 13th April 2023 till date was presented by the Vice Chancellor.

I. ACADEMIC ACTIVITIES

- The ODD semester of the academic year 2023–24 commenced on 19th July 2023 for final year and intermediate students, and on August 7, 2023, for first year students.
- The total no. of courses configured in the E-learning portal of Crescent Mastersoft ERP for the current ODD semester (AY 2023-24) is listed below.

S. No.	Description	Number
1	No. of courses enrolled	983
2	No. Of courses configured	1726

- The details of the number of courses and students enrolled in IIT Bombay – Spoken Tutorial and SWAYAM/NPTEL courses as value addition during this period are given below:

Details	IIT Bombay – Spoken Tutorial		SWAYAM / NPTEL courses
	Even Semester 2022-23	Odd Semester 2023-24	Even Semester 2022-23
Total number of courses enrolled	19	20	319
Total number of faculty enrolled	52	37	125
Total number of students enrolled	2400	2007	1827*
Total number of students successfully completed	1037	In process	354

* 86 students pursued 13 NPTEL courses and availed credit transfer for a total of 265 credits

- The details of Entrepreneurship and “Advanced Entrepreneurship” courses were offered to the students of B.Tech. programmes across all disciplines in collaboration with Wadhwani foundation NEN, Bangalore

Month & Year	Entrepreneurship Course	Advanced Entrepreneurship Course	Total No. of Students Enrolled
EVEN Semester 2022-23	452	-	452
ODD Semester 2023-24	243	25	268
Total	695	25	720

- The Office of COE conducted semester end examinations in May 2023. The overall pass percentage of passed out batch (2023) is 93%.
- A total of 2384 {(gold medal 53 : UG 32, PG 21), UG 1680, PG 578, Ph.D. – 81} candidates are receiving their degree awards in the forth coming 13th convocation

II. MEETINGS OF STATUTORY BODIES

Meetings of various boards, committees and statutory bodies were held as follows:

- ✓ The 20th meeting of Academic Council was held on 13th April 2023.
- ✓ The 23rd Board of Management meeting was conducted on 8th May 2023.
- ✓ The 50th and 51st Research Board meetings were conducted on 16.05.2023 and 04.07.2023 respectively.
- ✓ The Research Advisory Council of our Institute was held on 11.10.2023.
- ✓ Meetings of Board of Studies of Departments and Schools were conducted during July 2023 – October 2023.

- ✓ The standing committee meeting of 21st Academic Council is conducted on 18th December 2023.

III. ACCREDITATION / RANKINGS AND EXTENSION OF APPROVAL

3.1. Accreditation

The National Board of Accreditation (NBA) awarded accreditation to four programmes, B.Tech (ECE), B.Tech (CSE), B.Tech (IT) & MBA for three years from 01.07.2022 to 30.06.2025.

The NBA expert team visit was held during 15 – 17 December 2023, for accreditation of four programmes, B.Tech. (Biotechnology), B.Tech. (Civil), B.Tech. (EEE) & B.Tech. (Mechanical).

3.2. Ranking

- **The NIRF India Rankings 2023** ranked our Institution in the following categories:
 - Innovation Category - Rank Band: 11-50
 - Engineering Category - Rank Band: 101-150
 - Management Category - Rank Band: 101-125
 - University Category - Rank Band: 151-200
- The Times Higher Education (THE) Impact Rankings 2023 ranked Crescent as top 10 in India, and the details of ranks and bands are given below.

SDGs		Rank in India	Rank in the World
SDG 4	Quality Education	3	75
SDG 6	Clean Water and Sanitation	3	77
SDG 7	Affordable and Clean Energy	6	101-200
SDG 17	Partnership for the Goals	5	301-400

- The Times Higher Education World University Rankings (THE WUR, UK) ranked our B.S. Abdur Rahman Crescent Institute of Science and Technology for the first time in THEWUR 2024 and details of the rank band are given below.

Overall : 1201 – 1500

Engineering : 1001 +

- The Dataquest - CMR Best T-School Survey 2023 ranked our Institute as below:
 - All India Rank: "1" - Private T-Schools Category
 - All India Rank: "2" - South Zone

- All India Rank: "4" - Overall Ranking

B. S. Abdur Rahman Crescent Institute of Science and Technology positioned as the No.1 Private Institution in INDIA by Dataquest – CMR Best T-School Survey for three consecutive years – 2021, 2022 & 2023.

- The Dataquest - Employability Index Survey 2023 ranked our Institute as follows:
 - All India Rank: "19" - Overall
 - All India Rank: "15" - Private
 - All India Rank: "6" - South Zone
- The India Today- MDRA Best Universities Rankings 2023 ranked Crescent 24th (Overall – All India) under the General (Private) Category.

3.3 Recognition from Regulatory & Statutory bodies

3.3.a. AICTE Extension of Approval

The AICTE issued the EoA for the current Academic Year 2023-24 for 34 programmes based on the application submitted on 11.04.2023., viz., 16 UG Engineering B.Tech programmes, 11 PG Engineering M.Tech programmes, Manangement (MBA& MBA - IEV)- 2 programmes, MCA,ODL (MBA & MCA), OL (MBA & MCA)

3.3.b. UGC Visit

The UGC Expert team visited our institute on 21.09.2023 & 22.09.2023 to verify compliance of UGC (ODL and Online Programmes) Regulations 2020 and its amendments in offering ODL Programmes.

IV. ACADEMIC RESEARCH

Research Progress Report (From 13th April 2023 to December 2023)

Ph.D. Admission:

No. of Scholars admitted in July 2023 session: 64 (fulltime 18, part time 46)

Fellowships:

BSA JRF fellowships	:	46
Earn while learn fellowships	:	20
Post-Doctoral fellowships	:	03
Govt. fellowships	:	06
(UGC NET JRF, UGC-SJSGC, UGC – NFOBC)		

Ph.D. Thesis / Synopsis Status:

Degree Awarded (till 31 st Dec 2022)	:	214
Viva completed	:	81
Awaiting Viva-voce	:	5
Thesis Submitted	:	15
Synopsis submitted	:	13

Research Visibility:

h-index	:	78
i-10 index	:	931

Scopus / WoS Publications			
No. of Journal Publications	No. of Scopus Citations	Highest Impact Factor	No. of papers with more than 10 Scopus Citations
7100+	36000+	18.96	792

V. CENTRE FOR SPONSORED RESEARCH AND INDUSTRIAL CONSULTANCY

- Rs.9.05 Lakhs was sanctioned as seed money to 13 projects during September 2023
- School of Life Sciences got a grant from Government funding agencies viz., (ICMR, UGC-SJSGC, UGC-SJSGC, DBT) for 4 Projects worth Rs. 1.53 crores.
- Crescent School of Business received Rs.3.9 lakhs from AICTE to conduct ATAL FDP programme.

VI. CRESCENT INNOVATION INCUBATION COUNCIL (CIIC)

- CIIC Intel Unnati Lab has successfully commenced its value-added training program called RAI (Robotics, Artificial intelligence, IoT) for students, building upon the achievements of the previous year. The grand unveiling of RAI series 2.0 was held on 09th October 2023.
- CIIC is the first private incubator in India to win the global "ESG Rising Star Award" from UBI Global (Sweden) during the World Incubation Summit held on 16th May 2023 at Ghent, Belgium inaugurated by the Honourable Belgian Prime Minister Mr. Alexander De Croo.
- CIIC have received the Best Incubation Centre Award presented by Honourable Thiru. Mano Thangaraj, Minister for Milk & Dairy Development, Govt. of Tamil

Nadu at Tamil Nadu Higher Education Summit & Awards (TANHESA), organised by FICCI and The New Indian Express.

- CIIC organized the “Institute Innovation Council’s regional meet” on 1st December 2023.

VII PATENTS

There were 29 patents filed, 30 patents published, and 8 patents granted. Two patents were obtained by Mechanical, five by Crescent School of Architecture, and one by CSE.

VIII. CAREER DEVELOPMENT CENTRE & INDUSTRY RELATIONS

Total No. of Companies Visited	Total No. of offers	Core Companies Visited	Offers in Core Companies	IT / ITES & Other Companies Visited	Offers in IT / ITES / & others
223	963	79	450	144	513

- ❖ 223 Companies visited for campus recruitment process and 963 students have been selected through the on-campus and virtual mode from 2023 & 2024 Passing batch respectively from 13th April 2023 to till date. (Oct. 2023)
- ❖ Our Institute received the Award of “Excellence in Innovative Placement & Industry Practices 2023” from Dr. Anju Sharma, IAS, Additional Chief Secretary, Labour, Skill Development & Employment Department, Government of Gujarat at the 2nd Education Leaders Conclave & Awards organized by Govt. of Telangana & LinkedIn on 20 - 21 July 2023 at Hyderabad
- ❖ Crescentians have been placed with the salary package ranging from Rs.6 lakhs p.a to 18 lakhs p.a

IX MOU’S SIGNED BY THE DEPARTMENTS / SCHOOLS / DIVISIONS

In addition to the existing 50 MoUs signed at the Institute level, 14 MoUs have been signed during this period. Some of the MoUs with the foreign institutions/organisations are INTI International University and Colleges, Malaysia, Nasscom Foundation, The Israeli National Center of Blue Economy, Incheon National University, Republic of Korea, and Tula State Leo Tolstoy Pedagogical University Tula, Russia.

X. SIGNIFICANT EVENTS

The Schools / Departments / Divisions of the institution organized around 356 events to promote knowledge acquisition during this period. The details are as follows:

Events	Number
International Conference	4
Seminar / Webinar	38
Orientation Programme	21
Workshop / Training programme	53
Faculty Development Programme	7
Value Added Programme	29
Guest Lecture	49
Career guidance / Awareness programme	25
Industrial Visit	76
Quiz / online competitions	46
Guest lecture Invited talk	8
Total	356

XI CENTRE FOR INTERNATIONAL RELATIONS (CIR)

- The Centre for International Relations (CIR) arranged a meeting with Mr. Hiroaki Yumoto, Chairman of International SDGs Human Resource Support Association (ISHA) from Osaka on 17th May 2023 .
- The Department of English in collaboration with Centre for International Relations, School of Social Sciences & Humanities and School of Arabic and Islamic Studies, organised a Two day International Conference on Social Sciences, Languages and Culture (ICSSLC'23) on 12th & 13th October 2023.

XII. SALIENT PROGRAMMES / EVENTS CONDUCTED BY THE DEPARTMENTS / SCHOOLS

- Two-day International Conference on Social Sciences, Languages and Culture ICSSLC'23 BSACIST Organized by the Department of English in collaboration with Centre for International Relations, School of Social Sciences and Humanities & School of Arabic and Islamic Studies on 12 & 13th October 2023.
- School of Life Sciences organized an International Conference on Applications of natural products nanomaterials and Nano-pharmaceuticals (ICAN3) in association with Korea Aerospace University, Republic of Korea on August 9-10, 2023.

- The Department of Commerce, in collaboration with the Association of Muslim Professionals (AMP), Chennai Chapter, hosted a Guest Lecture on "Leadership: The Path to Success Stories" on October 4, 2023, from 10:30 am to 12 pm at the convention centre. Mr. Wali Rahmani, a Lawyer, Social Entrepreneur, and Founder Chairman of UMEED Academy, Kolkata, served as the resource person.
- The Crescent school of law organized a visit to The Raj Bhavan for an interaction with Hon'ble Governor of Tamilnadu Mr. R. N. Ravi on 30th October 2023.
- Crescent School of Business organized 'The International Immersion Programme (IIP)', from 21st July to 27th July 2023 at the National University of Singapore, Singapore.
- The Department of English conducted an online Guest Lecture on "Literature in Real Life" delivered by Ms. Sundari Subasini Nesamany, Faculty of Education and Humanities, Unitar International University, Selangor, Malaysia, on 27.09.2023.

XIII. FACULTY AND STUDENTS: ACHIEVEMENTS / RECOGNITIONS

Faculty :

- Dr. S. Hemalatha, Dean School of Life Sciences received Velu Nachiyar Women Researcher Award, 2023, Research Excellence Award 2023, Institute of Researchers Wayanad Kerala and Distinguished Professor Award 2023 -Institute of Researchers.
- Dr. N. Ayyanathan, Professor/CA is recognized as a Certified Evaluator in Supply Chain Analytics, Elsevier Publications, June 2023 and also recognized and honored as an Expert and Researcher in Big Data Analytics, September 2023, Business Talkz.
- Crescent School of Architecture was awarded with "Best Architect College Award" in Institutional Category by Merit Awards and Marketing Research in May 2023.
- Dr C.Tharini, has received the appreciation Award in October 2023 from IEEE and honored by the IEEE authors forum for one of the top IEEE authors .
- Dr. K.Indra Gandhi, Assistant Professor (Sr. Gr.)/ECE & Deputy Dean (Student Affairs), received the NPTEL_DOMAIN_SCHOLARS and NPTEL discipline star in Computer Science and Engineering during August 2023
- Dr.Belwin J.Brearley received best department "NPTEL coordinator (with maximum number of credit transfer by the students) award" on 13.10.2023.
- Dr. Ashok Kumar P is listed in the Top 2% of Scientists (2023) in the field of Oncology and Toxicology by Stanford University, USA.
- Dr. D. Mubarak Ali is among the top 2% scientists in the world by 2023 Elsevier published by Stanford University, USA, and he also visited the Surface Technology

and Application Center of Korea Aerospace University in Goyang, Republic of Korea
 1.6.2023 - 31.08.2023 as visiting research professor

- Dr. Soumen Bera visited Dept. of Pathology, University of Illinois at Chicago, Chicago, IL 60612, USA from October 2021 to till date.
- Dr. S. Ranjani received the International Conference on Trends in Biological Sciences: Impetus on Human Health Young Scientist Award 2023 held on 12-13 October 2023. SRM Arts and Science College, SRM Nagar, Kattankulathur and also received InRes Vivekananda Award 2023 and Young Researcher Award 2023 from Institute of Scientists, Wayanad, Kerala.
- S.M.Shaheedha Awarded 2023 ASMA Academic Excellence Award - "Best Faculty Award" organized by: ASMA Higher Education & Summit Awards at IIT Madras Research Park, held on 21st April 2023 and also received National Best Woman Scientist Award “ organized by Avishkar Foundation, Solapur, dated 05.09.2023
- Dr.P.Rathna, Prof.& Head was appointed as Research Fellow of Inti International University, Malaysia in September 2023.

Students:

- Ms. J. Mahalakshmi and Ms. A. Shantini Devi of B.Tech. Polymer Engineering, Final year students completed their final year project cum internship at the Environmental Research Institute, National Sun Yat-Sen University, Singapore, under TEEP program from March to July 2023
- Mr. W. Abdul Shajeed,(B.Tech EIE) got an opportunity to work as data Analyst Intern at Beebag Sdn Bhd – Malaysia for a period of two months as summer internship from 26.6.2023 to 25.8.2023.
- Ms. Ajitha Kamali (B. tech ECE) has received international internship from National Cheng Chung University for the period from July 2023 to September 2023.
- Mr. Ashkar Manappadth Abdul Salam Research Scholar and Mohammed Shadman Shafat IV Yr B. Tech IT got international internship in National University of Technology (Taipei Tech), Taiwan and Taiwan NSTC International Internship Pilot Program(IIPP) Taipei Medical University respectively.
- Ms.S. Iraniammal, (2019-2023 batch), (B. Pharm), has been awarded with the “Best Pharmacy Student 2023” for her academic excellence in scoring CGPA 9.87 by Indian Pharmacy Graduates’ Association, Tamil Nadu Branch.
- Mr. Logesh Radhakrishnan and Dr. Neesar Ahmed won first prize with cash award in the International Conference on Siddha Diet and Nutrition for Healthy Life 2023 organised by National Institute of Siddha, Chennai on 10th-11th August 2023,

- Mr. Ajay Rathnam, B. Tech-Biotech from Crescent silambam club won three gold medals in International silambam championship-2023 conducted by International silambam committee in Malaysia from on 30th July 2023.
- Ms. Rasika received the best NCC cadet award from the 13, Tamil Nadu Battalion NCC, conducted from 10th -20th May 2023

XIV ANY OTHER SPECIFIC / IMPORTANT ACTIVITIES (VIZ. EXTENSION / CSR):

- Our University has been awarded Star World Record Ambassador Certification for contributing 100 Green participants towards United Nation SDG 7 on May 27th, 2023 during IGEN ENERGATHON 2023.
- The Centre for Innovation in Teaching and Learning (CITL) has created an Open Class Room in outdoor environment for “District Eco-SDG Championship 2023 for Higher Education Institutions” during August – September 2023.
- The Silver Jubilee celebration of Crescent alumni (1994-98 batch) was organized during July 15-16, 2023. Dr S Jennathu Beevi, Assoc.Prof./EEE was one of the organizing committee members. Around 45 faculty members, 20 supporting staff and 150 Alumni attended the reunion.
- Crescent Energy Club organized a programme “ECOZEST” to emphasize energy conservation and environmental protection on 06.10.2023. Mr. Gowtham, Founder, Art Kingdom & Wlak for Plastic was the Chief guest.
- Students from University of East London completed “Six Weeks Students Turing Scheme Study Mobility Exchange Programme” in School of Life Sciences (SLS), B.S. Abdur Rahman Crescent Institute of Science and Technology (BSACIST), Chennai, India, funded by Turing Scheme, Govt. of UK during the period of 03.07.2023 to 12.08.2023.
- The Department of Computer Science and Engineering organized a Yoga awareness programme in a village in order to increase the mental strength among people and organized a programme Mindful Eating for school children which helps to eradicate hunger among school children on 14.09.23 and also organized a Legal awareness programme for village women on 19.10.23.
- Crescent school of Architecture conducted Food Festival-Sept 23, wherein each class of CSA had put up stalls based on various themes of cuisine and gauged by Famous master chefs of Cook TV – Mr Rajeev and Mr Ranjith. The collections were given to charity through the social outreach club of CSA.
- Crescent School of Pharmacy, on the occasion of” 62nd National Pharmacy Week

2023” organised a social service activity of “feed the poor”, which benefited 500+ needy’s in the village at uthiramerur near Chennai.

Discussions:

- Mr. Arul Rajkumar, Vice President of Ford Motor India Ltd., commended the inclusion of entrepreneurship courses in the B.Tech curriculum, the implementation of 4 to 6 weeks internships for students, and the soft skills training provided to foster an innovative culture among students. He strongly emphasized the importance of faculty internships in industries to ensure a hands-on experience.
- Dr. M. Saravanan, Principal Researcher at Ericsson Research in the Artificial Intelligence & Machine Learning Group, proposed that the engineering departments organize "hackathons" to encourage innovative collaboration and research activities, ultimately leading to an increase in student start-ups and faculty patents.
- Dr. Ranjani Parthasarathy emphasized the need for faculty to develop research projects in collaboration with industries. She also suggested the implementation of industry-institute research projects and post-doctoral research to facilitate extensive networking and international collaboration.
- Dr. Bashir Alam stressed the importance of enhancing industry interactions through research projects and industry-institute start-ups. He highlighted the benefits of such initiatives, including the improvement of teaching-learning processes, creating awareness among students about the industry environment, imparting practical knowledge, and fostering self-confidence among students to become entrepreneurs.
- The Vice Chancellor acknowledged and endorsed the Institute's commitment to actively increase industry internships and promote start-ups.

Resolution:

The Academic Council noted the report on Academic activities of the Institution.

ITEMS MOVED BY THE VICE CHANCELLOR

Item 21.1.1

To confirm the Minutes of the Twentieth meeting of the Academic Council held on 13th April 2023.

Note on Agenda:

The Twentieth meeting of the Academic Council was held on 13.04.2023 at 10.00 a.m. through blended mode. The minutes of the meeting was communicated to all the members and no comments were received.

The minutes of the meeting is enclosed in [Annexure 21.1.1](#)

The Academic Council may confirm the minutes.

Resolution:

As there were no comments received from the council members, the minutes of twentieth meeting of the Academic Council was confirmed.

Item 21.1.2

To consider and approve the Action Taken Report on the minutes of the Twentieth Meeting of Academic Council.

Note on Agenda:

The action taken report on the minutes of the Twentieth meeting of the Academic Council is enclosed in [Annexure 21.1.2](#)

The Academic Council may consider and approve the same.

Resolution:

The action taken report on the minutes of the twentieth meeting of the Academic council was noted and approved by the Academic Council.

Item 21.1.3

To consider and approve the starting of new programme viz. (i) B.Sc. Aviation, (ii) B.A. Islamic Studies (OL & ODL mode) (iii) LLM (Taxation Law) (iv) LLM (Intellectual Property Law) (v) M.Pharm. programme in the specialisation of Pharmaceutical Analysis (vi) increase in intake in “B.Tech. Aeronautical Engineering”

Note on Agenda:

- (i) Considering the advanced technological developments, current market trends, industry demand and societal needs, the Department of Aerospace Engineering is proposed to offer a new programme on “B.Sc. Aviation” with an intake of 60

students, from the academic year 2024-25. The same was deliberated in the 18th meeting of Board of Studies of Aerospace Department, which was held on 24.11.2023 and has recommended for approval in the Academic Council.

- (ii) In the 16th meeting of the Board of Studies of the School of Arabic and Islamic Studies, it was proposed to offer B.A. (Islamic Studies) through OL and ODL mode from the academic year 2024-25. The curriculum and syllabi of B.A. (Islamic Studies) under Regulations 2021, PPR (Programme Project Report), SLM (Self Learning Material) and E-Learning Material of the courses offered in the programme were deliberated and the Board has recommended the same to get approval from the Academic Council
- (iii) The Crescent School of Law has proposed to start new PG programmes (i) 'LL.M. in Taxation Law' and (ii) LL.M in Intellectual Property Law, from the academic year 2023-24. This is deliberated in the 2nd Board of Studies of the Crescent Centre for Post Graduate Legal Studies held on 17th June, 2023. After deliberations, the Board has recommended the same for approval in the Academic Council.
- (iv) Due to increase in industry demand and advancement in analytical techniques, the Crescent School of Pharmacy has proposed to start new P. G programme M.Pharm. in the specialization of Pharmaceutical Analysis with an intake of 15 seats from the academic year 2024 – 25.
- (v) Due to the increase in demand for new technologies in the field of Aeronautical Engineering, the Department of Aerospace Engineering has proposed to increase the student intake in B.Tech. (Aeronautical Engineering) from 30 to 60 from the academic year 2024-25, upon approval from AICTE.

The Academic Council may consider and approve the same.

Discussions:

Dr. Ranjani Parthasarathy expressed her encouragement and appreciation for the initiation of two new postgraduate programs by Crescent School of Law, namely, 'LL.M. in Taxation Law' and 'LL.M. in Intellectual Property Law.'

Resolution:

After deliberations, the two new postgraduate programs offered by Crescent School of Law, namely, 'LL.M. in Taxation Law' and 'LL.M. in Intellectual Property Law' was approved for the implementation from the Academic year 2023-24 and other programmes in this agenda item was approved for implementation from the Academic year 2024-25. .

ITEMS MOVED BY THE DEAN (ACADEMIC AFFAIRS)

Item 21.2.1

To consider and ratify the mode of teaching learning process and academic schedule of the Odd Semester 2023-24.

Note on Agenda:

The Institute started the academic session of the ODD semester of Academic Year 2023-24 on 19.07.2023 for intermediate & final year students and 07.08.2023 for the first year students.

The Institution meticulously prepared the academic schedule, program-wise, for the odd semester of AY 2023-24. The academic schedule was subjected to minor revision, on a need basis, by following the guidelines proposed by regulatory/statutory / local authorities concerned and also taking into account the pending academic activities viz. syllabus coverage, conduct of continuous assessments and semester end examinations.

The Crescent Mastersoft ERP is being effectively utilized for handling academic activities (configuration of timetable & courses, attendance marking, feedback and upload of course materials etc.) and exam related activities (mark capturing and result declaration). A total of **983** courses were enrolled and **1726** courses were configured in the Mastersoft ERP portal.

The details of the academic schedule for various programmes of the odd semester 2023-24 is given as follows in [Annexure 21.2.1](#).

The academic Council may consider and ratify the same.

Resolution:

The agenda item was considered and ratified.

Item 21.2.2

To consider and note the Annual Report of the Institution for the academic year 2022-23.

Note on Agenda:

It is the practice of the Institution to submit the annual report of the Institution to the UGC. Reports of the various activities of the Schools / Departments / Divisions were collected through a structured template for the academic year 2022-23.

The Annual Report for the AY 2022-23 is given in [Annexure 21.2.2](#)

The Academic Council may consider and note the same.

Resolution

The agenda item was noted.

Item 21.2.3

To consider and note the credit transfer from SWAYAM – NPTEL courses facilitated to the students in the Academic Year 2022-23

Note on Agenda:

The regulations of various programmes facilitated the pursuing of NPTEL courses (under SWAYAM) and credit transfer upto 40% of credits in a semester. Although high number of faculty and students enrolled and pursued / completed NPTEL courses in the academic year 2022-23, 86 students from various departments have requested for credit transfer in 13 courses with a total credit transfer of 265 credits.

The details of students and courses pertaining to credit transfer in the academic year 2022-23 is given in [Annexure 21.2.3](#)

Academic Council may consider and note the same.

Discussions:

Dr. Ranjani Parthasarathy recommended an expansion in the enrollment of students in Massive Open Online Course (MOOC) offerings.

Resolution:

After deliberations, the agenda item was noted.

Item 21.2.4

To consider and note the extension of study period offered to students of various programmes.

Note on Agenda:

In the 12th meeting of Academic Council under item 12.2.4 empowered the Vice Chancellor to approve the extension of study requests from students (i.e., beyond the maximum period of study prescribed in the regulations of respective programmes) based on the recommendation of Dean, Academic Affairs.

From the academic year 2022-23 to till date, 9 students from different programmes were offered extension of study period. The details are given in [Annexure 21.2.4.](#)

The Academic Council may consider and note the same.

Resolution

The agenda item was noted.

Item 21.2.5

To consider and approve the revised Standard Operating Procedure (SOP) for pursuing online courses through NPTEL under SWAYAM to avail credit transfer facility and the conduct of semester end examinations.

Note on Agenda:

The Regulations of various programmes offered in the Institute permits the students to study online courses through NPTEL under SWAYAM portal upto 40% of courses in a semester as per the guidelines of the UGC.

In case the student is unable to take the proctored examination conducted by the NPTEL for certification due to medical reasons or any other valid reasons or the student is unable to clear the examination, based on recommendations from the Head of the Department, the Semester End Examination for the registered NPTEL course can be conducted in the Institute, provided the students scored a minimum of 60% of internal marks in the NPTEL course.

The details of revised Standard Operating Procedure (SOP) for the same is given in [Annexure 21.2.5](#)

The Academic Council may consider and approve the same to implement from the Even Semester of Academic Year 2023-24.

Discussions:

Dr. Ranjani Parthasarathy proposed to assign a faculty member to mentor the students pursuing NPTEL courses with responsibility of assessing their progress.

Dr. C. Tharini, Dean SECS, the Institute Coordinator, clarified the SOP followed in the Institute for availing credit transfer facility.

Resolution:

After deliberations, the agenda item was approved for the implementation from the even semester of Academic Year 2023-24.

Item 21.2.6

To consider and note the result analysis of even semester of Academic year 2022-23 of UG & PG programmes

Note on Agenda:

The result analysis of even semester of Academic year 2022-23 of all UG & PG programmes is given in [Annexure 21.2.6](#).

The Academic Council may consider and note the same.

Resolution:

After deliberations, the agenda item was noted.

ITEMS MOVED BY DIRECTOR (ADMISSIONS)

Item 21.3.1

To consider and note the sanctioned intake and students admitted in the various programmes offered by the Institution in the academic year 2023-24.

Note on Agenda:

The sanctioned intake and the students admitted in the academic year 2023-24 are as follows:

S.No.	B.Tech. Programmes	Sanctioned Intake	No. Students Admitted
1.	B.Tech. Aeronautical Engineering	30	31
2.	B.Tech. Automobile Engineering	30	09
3.	B.Tech. Biotechnology	60	62*
4.	B.Tech. Civil Engineering	60	26
5.	B.Tech. Computer Science & Engineering	240	253*
6.	B. Tech. Computer Science & Engineering (Cyber Security)	60	64
7.	B. Tech. Computer Science & Engineering (IoT)	60	60
8.	B.Tech. Artificial Intelligence & Data Science	180	199*
9.	B.Tech. Information Technology	60	68*
10.	B.Tech. Electrical & Electronics Engineering	90	56
11.	B.Tech. Electronics & Communication Engineering	120	129*
12.	B.Tech. Electronics & Computer Engineering**	60	61*
13.	B.Tech. Electronics & Instrumentation Engineering	30	26
14.	B.Tech. Mechanical Engineering	120	42
15.	B.Tech. Polymer Engineering	30	9
Total		1230	1095
	No. of students admitted to B.Tech. Programmes under Lateral Entry Scheme		162

*Admitted over the sanctioned intake under supernumerary quota

** New programme

S.No.	Other UG Programmes	Sanctioned Intake	No. Students Admitted
1.	B.Arch.	80	77

2.	B.Des. Interior Design	60	39
3.	B.Pharm.	60	60
4.	BBA LLB (Hons)	120	120
5.	BA LLB (Hons)	60	60
6.	B.Sc. Biotechnology	60	45
7.	B.Sc. Computer Science	60	64
8.	BCA	180	184
9.	B.Com. General	180	170
10.	B.Com. Accounts & Finance	120	97
11.	B.Com. Professional Accounting	60	65
12.	B.Com. (Hons)	60	63
13.	BBA General	60	60
14.	BBA Financial Services	60	55
15.	B.A. Public Policy	60	34
16.	B.A. English	30	16
17.	B.A. Islamic Studies	100	94
Total		1410	1303
Total of All UG Programmes		2640	2560

S.No.	PG Programmes	Sanctioned Intake	No. Students Admitted
1.	M.Tech. Avionics	12	--
2.	M.Tech. CAD-CAM	12	03
3.	M.Tech. Computer Science & Engineering	12	04
4.	M.Tech. Artificial Intelligence & Data Science	12	11
5.	M.Tech. Information Technology	12	07
6.	M.Tech. Construction Engineering & Project Management	18	05
7.	M.Tech. Structural Engineering	18	07
8.	M.Tech. Power Systems & Engineering	12	05
9.	M.Tech. VLSI & Embedded Systems	12	02
10.	M.Tech. Biotechnology	18	14
11.	M.Tech. Food Biotechnology	18	11
12.	M. Arch.	20	03
13.	M. Pharm. (Pharmaceutics)	9	09

14.	LLM (Criminal Law)	20	08
15.	MBA	180	189
16.	MBA IEV	30	17
17.	MCA	120	132
18.	M.Sc. Actuarial Science	20	20
19.	M.Sc. Biochemistry & Molecular Biology	20	--
20.	M.Sc. Biotechnology	60	60
21.	M.Sc. Chemistry	40	31
22.	M.Sc. Microbiology	40	40
23.	M.Sc. Physics	40	20
24.	M.Com.	40	39
25.	M.A. Islamic Studies	30	30
Total of all PG Programmes		805	667
Total (UG and PG)		3465	3227

The Academic Council may consider and note the same.

Discussions:

The Admissions Director reported an increase in the percentage of B.Tech admissions compared to the previous year.

Mr. Arul Rajkumar, Vice President of Ford Motor India Ltd., recommended incorporating data science into postgraduate programs instead of B.Tech, highlighting industry preferences for pure computer science or electronics engineering at UG level.

Dr. Ranjani Parthasarathy proposed the introduction of interdisciplinary programs in robotics and AI in the forthcoming academic years, emphasizing the growing significance of these fields in various facets of modern society. Regarding the B.Tech. Electronics and Computer Science Engineering Programme, Dr. Ranjani Parthasarathy cautioned in maintaining a balanced mix of computer science and electronics courses in the curriculum of this programme. Although this specialization is recognized by AICTE, necessary care shall be taken, keeping in mind the students' job opportunities and specialization for their Master's program.

Dr. M. Saravanan, Principal Researcher at Ericsson Research, expressed support for such programs, noting that companies like Nokia and other embedded organizations prefer individuals with expertise gained from these interdisciplinary programs.

Resolution:

After deliberations, the agenda item was noted.

ITEM MOVED BY THE DEAN (RESEARCH)

Item 21.4.1

To consider and ratify the amendments of clauses and to add new clauses in the Ph.D. Regulations 2022.

Note on Agenda:

- UGC has released a new Ph.D. Regulations 2022, which was published in the Gazette of India, on 07 November 2022. From January 2023 onwards, our B.S. Abdur Rahman Crescent Institute of Science and Technology has adopted the new Ph.D. Regulations 2022.
- The regulations also incorporated the minimum requirement of publications & other assessment methods for submitting the synopsis / thesis.
- Some of the clauses viz., Review Meeting & Progress under Research Advisory (Doctoral) Committee and its functions, Plagiarism Software & Percentage of similarity index [2.1 (ii), 3.1 (i), 5.0 (iv), 9.2, 10.5 & 15.0], were modified in the Ph.D. Regulations 2022.
- New clauses viz., Specific Educational Qualifications, Admission to Foreign Nationals / NRIs under Eligibility criteria, Break of Study [2.1 (v), 3.1 (iii), 3.2 (iii), 4.0 (vii), 4.0 (viii), 4.0 (ix), 5.0 (vi), 8.1 (i) & 8.1 (ii)] were also added in the Ph.D. Regulations 2022.
- The amendment in clauses of the Ph.D. Regulations 2022 will benefit the Research scholars, registered for their Ph.D. under the same.
- This was discussed in the 50th meeting of the Research Board held on 16.05.2023 and the Vice-Chancellor approved the minutes of the meeting dated 01.06.2023.

The list of amended clauses of Ph.D. Regulation 2022 is given in [Annexure 21.4.1.](#)

The Academic Council may consider and ratify the amendments of clauses in Ph.D. Regulations 2022.

Resolution:

After deliberations, the agenda item was ratified.

ITEM MOVED BY THE DIRECTOR (INTERNATIONAL AFFAIRS)

Item 21.5.1

To consider and ratify the guidelines for permitting students for International Internships during the semester.

Note on Agenda:

Students, who are awarded with international internships, have to undergo internship in respective foreign universities/industries/research laboratories, for a period ranging from 4 to 12 weeks during the semester. In order to facilitate such students to undertake international internships, guidelines have been proposed in consultation with the Dean (Academic Affairs) and the Controller of Examinations. The same was approved by our Vice Chancellor.

The guidelines for permitting students for International internships during the semester is given in [Annexure 21.5.1.](#)

The Academic Council may consider and ratify the same for implementation from the Even Semester of Academic Year 2022-23.

Resolution:

After deliberations, the agenda item was ratified for implementation from the Even Semester of Academic year 2022 – 23

ITEM MOVED BY THE DIRECTOR (CENTRE FOR DISTANCE AND ONLINE EDUCATION)

Item 21.6.1

To consider and approve the Feedback Questionnaire for OL / ODL Programmes

Note on Agenda:

To enhance the quality of OL / ODL Programmes, a separate Feedback Questionnaire has been formulated pertaining to OL / ODL Programmes from the forthcoming Semester onwards. The Feedback Questionnaire is placed for approval. The detail of feedback questionnaire is given in [Annexure 21.6.1.](#)

The Academic Council may consider and approve the same for implementation from the Even Semester of Academic Year 2023-24.

Resolution:

After deliberations, the agenda item was approved for implementation from the Even Semester of Academic year 2023-24.

Item 21.6.2

To consider and approve the change in the pattern of conducting examinations for MBA degree under OL / ODL Programmes with same standards as conventional mode.

Note on Agenda:

Based on the representations received from the students, the CDOE has planned to conduct one Mid-Term Examinations instead of CAT 1 and CAT 2 examinations from the forthcoming semester.

As per UGC DEB Regulations. the evaluation shall include two types of assessments; (i) continuous or formative assessment; and (ii) summative assessment in the form of end semester examination or term end examination:

The CDOE ensures the curricular aspects, assessment criteria and credit framework for the award of Degree programmes at postgraduate level through Open and Distance Learning mode and through Online mode shall be evolved by adopting same standards as being followed in conventional mode by the Higher Educational Institution.

Hence, the proposal to change the pattern of examinations to Mid-Term Examinations, Assignments, Semester End Examinations for MBA degree under OL / ODL programmes.is placed for approval.

The Academic Council may consider and approve the same for implementation from the Even Semester of Academic Year 2023-24.

Resolution:

After deliberations, the agenda item was approved for implementation from the Even Semester of academic year 2023 – 24

SCHOOL OF INFRASTRUCTURE

DEPARTMENT OF CIVIL ENGINEERING

Item 21.7

To consider and approve the recommendations of 19th meeting of Board of Studies of the Department of Civil Engineering held on 29.09.2023.

Item 21.7.1

To consider and approve the syllabi of VII and VIII semesters of B.Tech. Civil Engineering under Regulations 2021.

Note on Agenda:

In the 19th meeting of the Board of Studies of the Department of Civil Engineering,

the syllabi of **VII and VIII** Semester course(s), including relevant professional elective courses, were presented. After deliberations, the board has recommended the same for approval in the Academic council.

The salient features of the B.Tech. Civil Engineering curriculum (VII and VIII Semesters) under Regulations 2021 with emphasis on “Introduction of New courses” and “Courses with Syllabus revisions” are as follows:

I. Semester VII & VIII (AY 2024-2025)

a) New courses introduced.

Course Code	Course Title	Credits
CED 4101	Smart Infrastructure	3
CEDX 01	Advanced Design of RC and Masonry Structures	3
CEDX 02	Advanced Design of Steel Structures	3
CEDX 05	Introduction to Finite Element Analysis of Structures	3
CEDX 06	Structural Dynamics	3
CEDX 36	Pavement Engineering	3
CEDX 34	Application of Software in Geotechnical Engineering	3
CEDX 38	Design Principles of Special Foundation	3
CEDX 63	Intelligent Transportation Systems	3

b) Courses with Syllabus revisions:

Course Code	Course Title	Credits	Revision (%)
CEDX 03	Design of Bridge Structures	3	20%
CEDX 07	Prestressed Concrete Structures	3	20%
CEDX 19	Lean Construction	3	60%
CEDX 22	Building Information Modelling	3	30%
CEDX 54	Design of Hydraulic Structures	3	20%
CEDX 55	Water Power Engineering	3	20%
CEDX 61	Traffic Engineering	3	20%

The syllabi of the course(s) (VII and VIII Semester) of B.Tech., Civil Engineering under R 2021 (including syllabi of relevant professional elective courses) are given in [Annexure 21.7.1.](#)

The Academic Council may consider and approve the same for implementation from the even semester of academic year 2023-24.

Resolution:

After deliberations, the above item was approved for implementation from the the even semester of academic year 2023-24.

Item 21.7.2

To consider and approve the revision in guidelines in the courses on Internship viz., CED 4102 and CED 3106 (B.Tech. Civil Engineering under R 2021), CEE 7102 (M.Tech. Structural Engineering, R 2022) and CEE 7122 (M.Tech. Construction Engineering and Project Management, R 2022).

Note on Agenda:

The guidelines for pursuing the course “Internship” in B.Tech. Civil Engineering under R 2021, M.Tech. Structural Engineering and M.Tech. Construction Engineering and Project Management under R 2022 were revised and are given in [Annexure 21.7.2](#).

The Academic Council may consider and approve the same for implementation from the even semester of Academic year 2023-24.

Resolution:

After discussions, the agenda item was approved for the implementation from the even semester of Academic year 2023-24.

Item 21.7.3

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

Note on Agenda:

The Department of Civil Engineering is offering the courses “CEEY 181- Climate change in Water Resources” and “CEEY 182 - Hydrologic Analysis and Design” to facilitate the PhD scholars to pursue the same based on the recommendations of the Research Advisory Committee (RAC). These courses are included in the curriculum of M.Tech. CEPM under R 2022 as elective courses. The syllabi of the courses are given in [Annexure 21.7.3](#).

The Academic Council may consider and approve the same for implementation from the even semester of Academic year 2023-24.

Resolution:

After discussions, the agenda item was approved for the implementation from the even semester of the Academic year 2023-24.

SCHOOL OF MECHANICAL SCIENCES
DEPARTMENT OF MECHANICAL ENGINEERING

Item 21.8

To consider and approve the recommendations of 22nd meeting of Board of Studies of the Department of Mechanical Engineering held on 13.09.2023.

Item 21.8.1

To consider and ratify the revision of Programme Educational Objectives (PEOs) for the B. Tech. (Mechanical Engineering) programme.

Note on Agenda:

In the 22nd meeting of Board of Studies of Mechanical Engineering Department, the revised PEOs of the B.Tech. Mechanical Engineering programme were deliberated. After deliberation, the Board has recommended the same for ratification. The revised PEOs are given below:

Programme Educational Objectives for B.Tech. (Mechanical Engineering)

- PEO 1: Possess essential professional skills to develop high-quality solutions in Design, Manufacturing, Materials, Thermal, and related engineering fields.
- PEO 2: Engage and succeed in professional careers through teamwork, ethical behaviour, proactive involvement, and effective communication.
- PEO 3: Assume progressively managerial, leading, and influential roles in organizations and societies, with a commitment to environmental sustainability.
- PEO 4: Pursue higher studies and succeed in academic teaching, research, or entrepreneurial careers.
- PEO 5: Demonstrate the quest for life-long learning through professional development, practical training, and value-added programs.

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 for implementation from the academic year 2022-23.

DEPARTMENT OF AEROSPACE ENGINEERING

Item 21.9

To consider and approve the recommendations of 18th Board of Studies of the Department of Aerospace Engineering held on 24.11.2023.

Item 21.9.1

To consider and approve the syllabi (VII semester electives) of B.Tech. Aeronautical Engineering under Regulations 2021.

Note on Agenda:

In the 18th meeting of Board of Studies of Aerospace Engineering Department, the syllabi of VII 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' with respect to VII semester elective courses are as follows:

I. Semester VII Elective core courses (AY 2024-25)

a. New Courses introduced:

Course Code	Course Title	Credits
AEDX 07	Introduction to multi - Phase flow	2
AEDX 32	Product Development and 3D Printing	1

b. Courses with Syllabus revision:

Course Code	Course Name	Credits	Revision (%)
AEDX38	Aircraft Navigation and Guidance	3	25
AEDX 23	Composite Materials and Structures	3	25
AEDX 31	High Temperature materials for aerospace applications	3	25
AEDX 24	Finite Element Method	3	30
AEDX 28	Measurement Systems	3	30

The Curriculum and syllabi of the courses (VII semester Electives) of B.Tech. Aeronautical Engineering under R 2021 are given in [Annexure 21.9.1](#)

The Academic Council may consider and approve the same for implementation from the academic year 2024-25.

Resolution:

After deliberations, the above item was approved for implementation from the academic year 2024-25.

Item 21.9.2

To consider and approve the open elective courses for B.Tech. programmes under Regulation 2021.

Note on Agenda:

The syllabi of the following **open elective courses** offered by the Department of Aerospace Engineering to B.Tech. programmes under R 2021 were deliberated in the 18th of Board of Studies of Department of Aerospace Engineering. After deliberations, the Board has recommended the same for approval in the Academic council.

Course Code	Course Title	Credits
GEDX 201	Application of Fluid Mechanics	3
GEDX 111	Drone Technology	3

The syllabi of the open elective courses offered by the Department of Aerospace Engineering to B.Tech. programmes under R 2021 are given in [Annexure 21.9.2.](#)

The Academic Council may consider and approve the same for implementation from the Even semester of Academic Year 2023-24.

Resolution:

After deliberations, the above item was approved for implementation from the Even semester of Academic Year 2023-24.

Item 21.9.3

To consider and approve the curriculum of B.Sc. Aviation under Regulation 2021.

Note on Agenda:

The starting of the new programme on 'B.Sc. Aviation' by the Department of Aerospace Engineering from the Academic year 2024-25.

The curriculum of the B.Sc. Aviation under the regulation 2021 was framed in alignment with the UGC 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 was deliberated in the Board of Studies of Department of Aerospace Engineering. After deliberations, the Board has recommended the same for approval in the academic council.

The Curriculum of the of B.Sc. Aviation programme under R 2021 are given in [Annexure 21.9.3.](#)

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

the academic year 2024-25.

Discussion:

Dr. Ranjani Parthasarathy inquired about the provision of any undergraduate programs that are offered for duration of four years, in accordance with the rules outlined in the National Education Policy (NEP) 2020.

Dean, Academic Affairs informed that initiatives have been taken to offer four year under graduate programme in alignment with the guidelines outlined in the NEP 2020 and currently the process is in pipeline.

Resolution:

After deliberations, the above item was approved for implementation from the academic year 2024-25.

DEPARTMENT OF AUTOMOBILE ENGINEERING

Item 21.10

To consider and approve the recommendations of 15th Board of Studies of the Department of Automobile Engineering held on 19.10.23.

Item 21.10.1

To consider and approve the revised syllabi of programme core (Semester IV & V) and new professional elective courses of B.Tech. Automobile Engineering under Regulations 2021.

Note on Agenda:

In the 15th meeting of Board of Studies of Automobile Engineering Department the syllabi of programme core (Semester IV & V) and professional elective courses were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

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

a) New Elective courses introduced / proposed: (AY: 2024-25)

Course Code	Course Title	Credits
AUDX 42	Battery and its Management	3
AUDX 43	Vehicle Diagnostic Systems	3

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

Semester	Course Code	Course Title	Credits	Revision (%)
IV	AUD 2211	Two and Three Wheeler Technology	3	20
V	AUD 3104	Vehicle Body Engineering	3	20

The Curriculum and syllabi of the above courses of B.Tech. Automobile Engineering under R 2021 are given in [Annexure 21.10.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2024-25.

Resolution:

After deliberations, the above item was approved for implementation from the academic year 2024-25.

DEPARTMENT OF POLYMER ENGINEERING

Item 21.11

To consider and approve the recommendations of 16th Board of Studies of the Department of Polymer Engineering held on 17.08.2023.

Item 21.11.1

To revise the syllabi of program core courses, professional elective courses, and include new courses of B.Tech. Polymer Engineering under Regulations 2021.

Note on Agenda:

In the 16th Board of Studies meeting of Polymer Engineering Department, the syllabi of program core courses, professional elective courses, and new courses were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The salient deliberations 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. Elective Courses (AY 2024-25)

a) New Courses Introduced / Proposed:

Course Code	Course Title	Credits
PEDX 08	Thermodynamics for Polymer Engineering	3

PEDX18	Additive manufacturing technology	3
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b) Courses with syllabus revisions (Proposed): Semester II - VII and Elective Courses

Course	Course Title	Credits	Revision (%)
PED 1211	Basics of Machining	3	10
PED 2202	Polymer Compounding Technology	3	5
PED 3103	Plastic and Rubber Testing	3	5
PED 3201	Plastic and Rubber Product Design	3	50
PED 4101	Mould and Die Design	3	5
PEDX 04	Nanoscience and Technology	3	5
PEDX 11	Fibre Technology	3	10
PEDX 12	Polymer Post Processing Operations	3	5
PEDX 17	Plastic Packaging Technology	3	10
PEDX 31	Advanced Mould Manufacturing Techniques	3	20
PEDX 42	Adhesives and Surface Coating Technology	3	5

The Curriculum and Syllabi of the program core courses, professional elective courses, and new courses of B.Tech. Polymer Engineering under R-2021 is given in [Annexure 21.11.1.](#)

The Academic Council may consider and approve the same for implementation from the academic year 2024-25.

Resolution:

After deliberations, the above item was approved for implementation from the academic year 2024-25.

SCHOOL OF ELECTRICAL AND COMMUNICATION SCIENCES

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Item 21.12

To consider and approve the recommendations of 19th Board of Studies of the Department of Electrical and Electronics Engineering held on 29.08.2023.

Item 21.12.1

To consider and approve the syllabi of the open elective courses (i) Optimization Techniques (ii) Electric Vehicle and (iii) Introduction to Artificial Intelligence and Evolutionary Computing under B.Tech regulations 2021.

Note on Agenda:

The syllabi of the following **open elective courses** offered from Electrical and Electronics Engineering department to B.Tech. Programmes under R 2021 were deliberated in the 19th meeting of Board of Studies of Electrical and Electronics Engineering Department. After deliberations, the Board has recommended the same for approval in the Academic council.

Course Code	Course Title	Credits
GEDX 220	Optimization Techniques	3
GEDX 112	Electric Vehicle	3
GEDX 122	Introduction to Artificial Intelligence and Evolutionary Computing	3

The syllabi of the open elective courses offered from Electrical and Electronics Engineering department to B.Tech. programmes under R 2021 is given in [Annexure 21.12.1.](#)

The Academic Council may consider and approve the same for implementation from the Academic Year 2024-25.

Discussions:

Dr. Ranjani Parthasarathy suggested that the open elective courses titled “Optimization Techniques” and “Introduction to Artificial Intelligence and Evolutionary Computing” can be handled by the Department of Mathematics and Department of Computer Science & Engineering respectively, considering these courses are core to their discipline. Also it was proposed that the EEE department could offer open elective courses in the Renewable Energy domain. After discussions, the HOD, EEE agreed to offer open elective courses on the Renewable Energy domain in the forthcoming academic year.

Resolution:

After deliberations, it was resolved that the open elective course “GEDX 112 – Electric Vehicles” would be implemented from the Academic Year 2024-25.

Item 21.12.2

To consider and approve the inclusion of Electric Mobility Laboratory in VI semester for B.Tech. EEE programme under R2021.

Note on Agenda:

In the 19th meeting of Board of Studies of Electrical and Electronics Engineering

Department, the inclusion of new laboratory course “EED 3206 - Electric Mobility Laboratory” instead of EED3205 - Comprehension in VI semester of B.Tech. EEE programme under R2021, was deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

I. Semester VI (AY 2024-25)

a) New courses introduced / proposed:

Course Code	Course Title	Credits
EED3206	Electric Mobility Laboratory	1

The revised curriculum of B.Tech. EEE and syllabus of the EED 3206 Electric Mobility Laboratory are given in [Annexure 21.12.2.](#)

The Academic Council may consider and approve the same for implementation from the even semester of Academic Year 2023-24.

Discussions:

Mr. Arul Raj Kumar, Vice President of Ford Motor India Ltd., suggested the inclusion of renewable energy in the curriculum, emphasizing the importance for students to acquire knowledge about renewable energy sources.

Resolution:

After deliberations, the above item was approved for implementation from the even semester of the academic year 2023-24.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Item 21.13

To consider and approve the recommendations of the 25th Board of Studies of the Department of Electronics and Communication Engineering held on 20.09.23.

Item 21.13.1

To consider and approve the syllabi of professional elective courses of B.Tech. Electronics and Communication Engineering under Regulations 2021.

Note on Agenda:

The inclusion of the following Professional elective courses offered to the B.Tech ECE under R2021 Curriculum, was deliberated in the 25th Board of Studies of ECE

Department. After deliberations, the Board has recommended the same for approval in the Academic council.

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

Course Code	Course Title	Credits
ECDX 61	Graphical Programming Based System Design	3

The syllabi of the professional elective courses offered to the B.Tech. ECE under R 2021 is given in [Annexure 21.13.1.](#)

The Academic Council may consider and approve the same for implementation from the Even semester of Academic Year 2023-24.

Resolution:

After deliberations, the above item was approved for implementation from the Even semester of Academic Year 2023-24.

Item 21.13.2

To consider and approve the syllabus of new open elective course offered by ECE Department to other B.Tech. Programme under Regulations 2021.

Note on Agenda:

The inclusion of new **open elective** course offered by ECE Department to other B.Tech. programme under R 2021 was deliberated in the 25th Board of Studies of ECE Department. After deliberations, the Board has recommended the same for approval in the Academic council.

a) New courses introduced / proposed: (AY 2024-25)

Course Code	Course Title	Credits
GEDX 231	Electronics for Mechanical Systems	3

The syllabus of the open elective courses offered by ECE Department to other B.Tech programme under R 2021 was is given in [Annexure 21.13.2.](#)

The Academic Council may consider and approve the same for implementation from the even semester of Academic Year 2023-24.

Resolution:

After deliberations, the above item was approved for implementation from the even semester of Academic Year 2023-24.

Item 21.13.3

To consider and ratify the syllabus of new professional elective course of M.Tech. VLSI & Embedded Systems under Regulations 2022.

Note on Agenda:

The inclusion of the following new Professional elective course offered to the M.Tech VLSI & Embedded Systems under R 2022, The syllabus was deliberated in the 25th Board of Studies of ECE Department. After deliberations, the Board has recommended the same for approval in the Academic council.

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

Course Code	Course Title	Credits
ECEY 063	VLSI Design Flow	3

The revised curriculum and syllabus of the professional elective courses offered to the M.Tech VLSI & Embedded Systems under R 2022 is given in [Annexure 21.13.3](#).

The Academic Council may consider and ratify the same for implementation from the Odd semester of Academic Year 2023-24.

Resolution:

After deliberations, the above item was ratified for implementation from the Odd semester of Academic Year 2023-24.

Item 21.13.4

To consider and ratify the course equivalency of NPTEL/SWAYAM courses with the BSACIST for availing the credit transfer under Regulations 2021 of B.Tech. ECE programme.

Note on Agenda:

The syllabus of the following five courses offered from NPTEL/ SWAYAM were deliberated in the 25th Board of Studies of ECE Department held on 20.09.2023.

B.Tech ECE R17 curriculum		Swayam courses- NPTEL		
Course code and Name	Credit	Course code and Name	No of weeks	Credit (Equivalence)
ECCX 27- Deep Learning	3	Noc23_cs56 Deep learning	12	3

GECX 205 - Industrial Safety	3	Noc23-MG 98 - Industrial Safety Engineering	12	3
GECX113 -Fundamentals of Project Management	3	Noc23-MG107-Project Management For Managers	12	3
ECCX 05 - Image Processing	3	Noc23_ee118- Digital Image Processing	12	3
ECCX44-Fundamentals of internet of things	3	Noc23_cs52-Introduction to Industry 4.0 and Industrial Internet of Things	12	3

After deliberations, the Board has recommended the same for ratification in the Academic council.

The syllabi of the above NPTEL/ SWAYAM courses & BSACIST courses are given in [Annexure 21.13.4.](#)

The Academic Council may consider and ratify the same for implementation from the Academic Year 2023-24.

Resolution:

After deliberations, the above item was ratified for implementation from the Academic Year 2023-24.

Item 21.13.5

To consider and ratify the course equivalency of NPTEL/SWAYAM courses with the BSACIST for the credit transfer under Regulations 2022 of M.Tech. VLSI & Embedded System programme.

Note on Agenda:

The syllabus of the following three courses offered from NPTEL/ Swayam were deliberated in the 25th Board of Studies of ECE Department.

M.Tech (VLSI & Embedded Systems) R22 curriculum		Swayam courses- NPTEL		
Course code and Name	Credit	Course code and Name	No of weeks	Credit (Equivalence)
ECEY 026 Artificial Intelligence	3	Noc23_ge40-Fundamentals of Artificial Intelligence	12	3
OEEY 711 – Project Management	3	<u>Noc23_mg107-Project Management for Managers</u>	12	3
ECEY 063 VLSI Design Flow	3	Noc 23_ee137-VLSI Design Flow: RTL to GDS	12	3

After deliberations, the Board has recommended the same for ratification in the Academic council.

The syllabi of the above NPTEL/SWAYAM & BSACIST courses are given in [Annexure 21.13.5.](#)

The Academic Council may consider and ratify the same for implementation from the Academic Year 2023-24.

Resolution:

After deliberations, the above item was ratified for implementation from the Academic Year 2023-24.

Item 21.13.6

To consider and approve the curriculum and syllabi (II – IV Semester) of B.Tech. Electronics and Computer Engineering under B.Tech. Regulation 2021.

Note on Agenda:

In the 25th meeting of Board of Studies of ECE Department, the curriculum and syllabi of (II – IV semester) for B.Tech. Electronics and Computer Engineering programme were deliberated. After detailed discussion, the board has recommended the same for approval in the Academic council.

The salient features of the B.Tech. Electronics and Computer Engineering under R 2021 with respect to 'Introduction of New Courses' and 'Courses with Syllabus Revision' with respect to (II - IV semester) are as follows:

I. Semester II – IV (AY 2023-24 and 2024-25)

a) New courses introduced / proposed:

Course Code	Course Title	Credits
ESD 2103	Operating Systems	4
ESD 2104	Object Oriented Programming	3
ESD 2106	Object Oriented Programming Laboratory	1
ESD 2204	Software Engineering	3
ESD 2205	Database Management System	3
ESD 2207	Database Management System Laboratory	1
ESD 2203	Microcontroller Architecture and Programming	3
ESD 2206	Microcontroller Programming Laboratory**	1

The detailed curriculum and syllabi (I to IV semester) of B.Tech. Electronics and Computer Engineering are given in [Annexure 21.13.6.](#)

The Academic Council may consider and approve the same for implementation from the even semester of academic year 2023-24.

Resolution:

After deliberations, the above item was approved for implementation from the even semester of academic year 2023-24.

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Item 21.14

To consider and approve the recommendations of 20th Board of Studies of the Department of Electronics and Instrumentation Engineering held on 07.09.2023

Item 21.14.1

To consider and approve the new syllabus for professional elective courses on “EIDX 12 Aircraft Instrumentation” of B.Tech. Electronics and Instrumentation Engineering under Regulations 2021.

Note on Agenda:

In the 20th meeting of Board of Studies of Electronics and Instrumentation Engineering Department the syllabi of professional elective course “EIDX 12 Aircraft Instrumentation” was deliberated. After discussions, the Board has recommended the same for approval in the Academic council.

The salient deliberations of B.Tech. Electronics and Instrumentation Engineering curriculum under R-2021 with respect to “Introduction of New courses” are as follows:

I. Semester VII (AY 2024-25)

a) New courses introduced / proposed:

Course Code	Course Title	Credits
EIDX12	Aircraft Instrumentation	3

The revised curriculum and syllabi of the courses of B.Tech Electronics and Instrumentation Engineering under R 2021 are given in [Annexure 21.14.1](#).

The Academic Council may consider and approve the same for implementation from the academic year 2024-25.

Resolution:

After deliberations, the above item was approved for implementation from the academic year 2024-25

Item 21.14.2

To consider and approve the removal of the program elective course “EID X66 Introduction to Industry 4.0 and Industrial Internet of Things” in the Curriculum of B.Tech. EIE programme under Regulations 2021

Note on Agenda:

As most of the content of this course is covered in other elective course and based on the feedback from faculty, it is suggested to remove the elective course “EID X66 Introduction to Industry 4.0 and Industrial Internet of Things” in B.Tech. EIE programme and the same was deliberated in the 20th meeting of Board of Studies of Electronics and Instrumentation Engineering Department. After deliberations, the Board has recommended to remove the same and placed for approval in the Academic Council.

The Academic Council may consider and approve the same for implementation from the even semester of Academic year 2023-24.

Resolution:

After deliberations, the above item was approved for implementation from the even semester of academic year 2023-24

Item 21.14.3

To consider and ratify the syllabi of professional elective courses (semester V) and rename the title of the program electives specialization named Computer Science Engineering as “Computer Applications for Automation” in B.Tech. Electronics and Instrumentation Engineering under Regulations 2021.

Note on Agenda:

In the 20th meeting of Board of Studies of Electronics and Instrumentation Engineering Department, the syllabi of professional elective courses (semester V) and rename the title of the program electives specialization named Computer Science Engineering as “Computer Application for Automation” were deliberated. After deliberations, the Board has recommended the same for ratification in the Academic council.

The salient deliberations of B.Tech. Electronics and Instrumentation Engineering curriculum under R 2021 with respect to “Introduction of New courses” for ratifications are as follows:

I. Semester V (AY 2023-24)

a) New courses (ratified):

Course Code	Course Title	Credits
EIDX 71	Machine learning	3
EIDX 72	Introduction to artificial Intelligence	3

The Curriculum and syllabi of the professional elective courses (V semester) of B.Tech. Electronics and Instrumentation Engineering under R 2021 are given in [Annexure 21.14.3](#).

The Academic Council may consider and ratify the same for implementation from the Odd semester of Academic year 2023-24.

Resolution:

After deliberations, the above item was ratified for implementation from the Odd semester of Academic year 2023-24.

Item 21.14.4

To consider and ratify the course equivalency of NPTEL / SWAYAM courses with BSACIST for availing credit transfer under Regulations 2021 of B.Tech. Electronics and Instrumentation Engineering programme.

Note on Agenda:

In the 20th meeting of Board of Studies of Electronics and Instrumentation Engineering Department, the course equivalency of NPTEL / SWAYAM courses with BSACIST for availing credit transfer under R2021 of B.Tech. Electronics and Instrumentation Engineering programme 021 were deliberated. After deliberations, the Board has recommended the same for ratification in the Academic council. The details of NPTEL / SWAYAM courses with the BSACIST are as follows:

B.Tech EIE R21 curriculum			Swayam Courses - NPTEL		
Course code and Name	Credit		Course code and Name	No of weeks	Credit (Equivalency)
EIDX71 Machine learning	3		Noc23-cs87 Machine learning	12	3
EID X23 Industry 4.0	3		Noc23-cs82 Introduction to Industry 4.0 and Industrial Internet of Things	12	3

The Academic Council may consider and ratify the same for implementation from the Odd semester of Academic year 2023-24.

Resolution:

After deliberations, the above item was ratified for implementation from the Odd semester of Academic Year 2023-24

SCHOOL OF COMPUTER, INFORMATION AND MATHEMATICAL SCIENCES

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Item 21.15

To consider and approve the recommendations of the 22nd Board of Studies of the Department of Computer Science and Engineering held on 17.08.2023.

Item 21.15.1

To consider and ratify the curriculum and revision in syllabi of B.Tech. – CSE (CS) under R2017, B. Tech (CSE), B. Tech – CSE (CS), B. Tech-CSE(IoT), B.Tech (AI & DS) programmes under R2021, M.Tech. CSE and M.Tech. (AI &DS) under R2022.

Note on Agenda:

The revised curriculum and revision in syllabi of B.Tech. (CSE) B. Tech – CSE (CS), B. Tech. CSE(IoT), B.Tech. (AI & DS) programmes under R2021, B. Tech – CSE (CS) under R2017 and M.Tech. (AI & DS) under R2022 were deliberated in the 22nd Board of Studies of Computer Science and Engineering Department. After deliberations, the Board has recommended the same for ratification in the Academic Council.

The salient deliberations B.Tech. CSE, CSE(CS), CSE(IoT) and B.Tech. AI & DS curriculum under R 2017 and R 2021 with respect to “Introduction of New courses” for ratifications are as follows:

I. B.Tech. CSE(CS) under R 2017

a) New courses introduced - Semester VII (AY: 2023-24)

Course Code	Course Title	Credits
CSC 4102	Compiler Design	3
CSC 4104	Compiler Laboratory	1

II. B.Tech. CSE, B.Tech. CSE (CS) and B.Tech. CSE(IoT) under R2021

a) New courses introduced - Semester V (AY: 2023-24)

The course Theory of Computation is introduced with course code CSD 3101 for the programme B.Tech. CSE, B.Tech. CSE (CS) and B.Tech. CSE (IoT)

Course Code	Course Title	Credits
CSD 3101	Theory of computation	3

III. B.Tech. CSE(CS) under R 2021

New courses introduced - Semester VI (AY 2023-2024)

The course CSD 3231 – Ethical Hacking and CSD 3233 – Ethical Hacking Laboratory has been moved to cyber security professional electives with course code CSDX 413 and a

new course CSD 3202 – Compiler Design has been introduced.

Course Code	Course Title	Credits
CSD 3202	Compiler Design	3
CSD 3203	Compiler Laboratory	1

IV. B.Tech. CSE (IoT) under R 2021(AY: 2023-24)

New Professional Elective Courses Introduced

Course Code	Course Title	Credits
CSDX 455	IoT Cloud Infrastructure	3
CSDX 354	3D Printing and Software Tools	3
CSDX 355	IoT Multimedia Technologies	3
CSDX 360	Energy Harvesting Technologies and Power Management for IoT Devices	3
CSDX 361	Internet of Medical Things	3
CSDX 362	5G and IoT Technologies	3
CSDX 363	Artificial Intelligence and IoT	3
CSDX 364	Machine Learning and Deep Learning for IoT	3

V B.Tech. AI & DS under R 2021

a) New courses introduced: (AY 2023-2024)

Course Code	Course Title	Credits
CSD 3153	Automata theory	3
CSD 3156	Data and Security lab	1
CSD 3253	Data Analytics and Visualization Laboratory	1
CSD 3255	Software Tools and Techniques Laboratory	1
CSD 4151	Applied Artificial Intelligence	3
New Professional Elective courses Introduced		
CSDX 606	R Programming for Artificial Intelligence and Data Science	3
CSDX 503	Artificial Intelligence based Web application	3
CSDX 504	Game theory	3
CSDX 507	Decision Making for Data Science	3
CSDX 508	Social Network Analysis	3

CSDX 510	Healthcare Data Analytics	3
CSDX 511	Recommender System	3
CSDX 624	High Performance Computing	3
CSDX 628	Web Analytics	3
CSDX 630	Text Analytics	3
CSDX 632	Spatial Databases	3
CSDX 521	Speech Processing	3
CSDX 522	Computer Vision	3
CSDX 524	Reinforcement Learning	3

b) The revised elective course codes and course names are given below:

S.No.	Existing code	Modified Code	Course Title
1.	CSDX 502	CSDX 603	Intelligent Information Retrieval
2.	CSDX 524	CSDX 501	Web and Social Media Mining
3.	CSD 3152	CSDX 502	Artificial Neural Networks
4.	CSD 3155	CSDX 509	Pattern Recognition
5.	CSDX 519	CSDX 621	Process Automation
6.	CSDX 515	CSDX 622	Applied Machine Learning
7.	CSDX 518	CSDX 623	Agent-Based Intelligent System
8.	CSDX 520	CSDX 625	Human and Intelligent Systems
9.	CSD 3254	CSDX 626	Natural Language Processing
10.	CSD 3253	CSDX 629	Exploratory Data Analysis
11.	CSDX 501	CSDX 631	Graph Theory and its Applications in Data Science
12.	CSDX 504	CSDX 532	Predictive Analytics

VI. Courses with syllabus revisions (ratified):

B.Tech. CSE (AY 2023-24)

Course Code	Course Title	Credits	Revision (%)
CSD 2203	Computer Architecture and Microprocessor	3	20%
CSDX 226	Web Analytics and Social Media Mining	3	20%
CSDX 108	Computer Vision	3	5%

B.Tech. AI & DS (AY 2023-24)

Course Code	Course Title	Credits	Revision (%)
CSD 2255	Essentials Of Data Science	3	25%
CSD 3152	Cloud Computing Services	4	20%
CSD 3154	Machine Learning Techniques	3	70%
CSDX 502	Pattern Recognition	3	45%

The course learning objectives and course outcomes of undergraduate programmes under R2021 and post-graduate programmes under R2022 were revised.

The updated curriculum and syllabi revision are given in **Annexure [21.15.1 \(a\)](#), [21.15.1 \(b\)](#), [21.15.1 \(c\)](#) and [21.15.1 \(d\)](#)**

The Academic Council may consider and ratify the same from the Academic Year 2023-24.

Resolution:

After deliberations, the above item was ratified for implementation from the academic year 2023-24

Item 21.15.2

To consider and ratify the course equivalency of NPTEL / SWAYAM courses and BSACIST for the credit transfer of B.Tech. Computer Science and Engineering programme under Regulations 2021.

Note on Agenda:

In the 22nd meeting of Board of Studies of CSE Department, the course equivalency of NPTEL / SWAYAM courses with BSACIST for the credit transfer of B.Tech. Computers Science Engineering programme under R2021, R2017 were deliberated. After deliberations, the Board has recommended the same for ratification in the Academic council. The details of NPTEL / SWAYAM courses with the BSACIST are as follows:

Programme & Regulation	Course code and Name	Credit	Swayam courses- NPTEL		
			Course code and Name	No of weeks	Credit (Equivalence)
B.Tech CSE R2021	CSDX 108- Computer Vision	3	noc23-cs77- Computer Vision	12	3
B.Tech AI & DS R2017	CSC 3252 - Introduction to Internet of Things	3	noc23-cs83 - Introduction to Internet of Things	12	3

The syllabi of the above NPTEL/SWAYAM & BSACIST courses are given in [Annexure 21.15.2](#).

The Academic Council may consider and ratify the same for implementation from the Odd Semester Academic Year 2023-24.

Resolution:

After deliberations, the above item was ratified for implementation from the Odd Semester Academic Year 2023-24.

DEPARTMENT OF INFORMATION TECHNOLOGY

Item 21.16

To consider and approve the recommendations of the 18th Board of Studies of the Department of Information Technology held on 25.09.2023.

Item 21.16.1

To consider and approve the modifications in the syllabus for two courses of B.Tech. Information Technology under Regulation 2021.

Note on Agenda:

As per the feedback obtained from the faculty members, the syllabi for the courses viz. ITD 3103 – Mean Stack Web Development and ITDX 54 – Data Science using Python were modified in B.Tech. Information Technology under Regulation 2021.

I. Semester V, VI, VII & VIII (AY 2024-25)

a) Courses with syllabus revisions (proposed):

Course Code	Course Title	Credits	Revision (%)
ITD 3103	Mean Stack Web Development	3	10%
ITDX 54	Data Science using Python	3	10%

The Board recommended the modified syllabi of the courses which are given in [Annexure 21.16.1](#) and the same is placed for approval in the Academic Council.

The Academic Council may consider and approve the same for implementation from the Academic Year 2024-25.

Resolution:

After deliberations, the above item was approved for implementation from the Academic Year 2024-25.

CRESCENT SCHOOL OF ARCHITECTURE

Item 21.17

To consider and approve the recommendations of the Board of Studies of the Crescent School of Architecture held on 19.07.2023.

Item 21.17.1

To consider and approve the curriculum and syllabi of elective courses (V to X semesters) of B.Arch. Programme under Regulations 2021.

Note on Agenda:

In the 14th meeting of Board of Studies of B. Arch programme, the curriculum and syllabi of elective courses offered from V to X semesters for B. Arch degree programme were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

I. Semester V to X

a) New elective courses proposed: (AY 2023-24, 2024-25 & 2025-26)

Course Code	Course Title	Credits
AR D 3212	Contemporary process in architecture	03
ARD 4114	MSME management	03
AR D 5112	Green building and rating systems	03
AR D 5211	Sustainable architecture and planning	03
AR D 3113	Principles of traditional architecture – I	03
AR D 3213	Principles of traditional architecture – ii	03

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

Course Code	Course Title	Credits	Revision (%)
AR D 3211	Energy efficient architecture	3	20%

The curriculum and syllabi of the of elective courses of B. Arch. Programme are given in [Annexure 21.17.1](#).

The Academic Council may consider and approve the same for implementation from the even semester of Academic year 2023-24.

Resolution:

After deliberations, the above item was approved for implementation from the even semester of Academic year 2023-24.

Item 21.17.2

To consider and ratify the syllabi of programme core and professional elective courses (Semester V) of B.Des. Interior Architecture under Regulations 2021.

Note on Agenda:

The Syllabi of the following elective courses offered in B.Des Interior Architecture programmes under Regulations 2021 were deliberated in the 8th Board of Studies of B.Des. After deliberations, the Board has recommended the same for approval in the Academic council.

The salient deliberations of B.Des. Interior Architecture curriculum under R-2021 with respect to “Introduction of New courses” and “Courses with Syllabus revisions” are as follows:

I. Semester V

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

Course Code	Course Title	Credits
IAD 3101	Psychology	3
AD 3102	Design Medium V	5
IAD 3103	Design Product V	5
IAD X06	Applied ergonomics	3
IAD X11	Design management	3
IAD X15	Digital Marketing	3

The Curriculum and syllabi of the courses (V semesters) of B.Des. Interior Architecture under R 2021 are given in [Annexure 21.17.2.](#)

The Academic Council may consider and ratify the same for implementation from the Odd Semester of Academic year 2023-24.

Resolution:

After deliberations, the above item was ratified for implementation from the Odd Semester of Academic year 2023-24.

DEPARTMENT OF CHEMISTRY

Item 21.18

To consider and approve the recommendations of 13th Board of Studies of the Department of Chemistry held on 08.09.2023,

Item 21.18.1

To consider and ratify the syllabi of programme core courses of I Semester B.Tech. programmes under Regulations 2021.

Note on Agenda:

In the 13th meeting of Board of Studies of Chemistry Department, the syllabi of programme core courses (Semester I) namely CHD1181 (Engineering Materials and applications) and CHD1182 (Chemistry for Electrical and Electronic Engineering) were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

The salient deliberations on Chemistry courses to B.Tech.. programmes under R-2021 with minor modifications are as follows:

a) Courses with syllabus revisions (ratified):

Course Code	Course Title	Credits
CHD1181	Engineering materials and Applications	4
CHD1182	Chemistry for Electrical and Electronics Engineering	4

The revised syllabi of the above courses are given in [Annexure 21.18.1](#).

The Academic Council may consider and ratify the same for implementation from the academic year 2023-24.

Resolution:

After deliberations, the above item was ratified for implementation from the academic year 2023-24

Item 21.18.2

To consider and ratify the syllabi of professional elective courses (Semester III) of M.Sc. Chemistry programme under Regulations 2022.

Note on Agenda:

In the 13th meeting of Board of Studies of Chemistry Department, the syllabi of

professional elective course (Semester III) was deliberated. After discussions, the Board has recommended the same for approval in the Academic council.

The salient deliberations of M.Sc. Chemistry curriculum under R-2022 with respect to “Courses with Syllabus revisions” are as follows:

I. Semester III & IV (AY 2023-24)

b) Courses with syllabus revisions (ratified):

Course Code	Course Title	Credits	Revision (%)
CHEY016	Polymer Technology	3	25

The Curriculum and syllabi of the above course of M.Sc. Chemistry under R2022 are given in [Annexure 21.18.2](#).

The Academic Council may consider and ratify the same for implementation from the Odd Semester of Academic year 2023-24.

Resolution:

After deliberations, the above item was ratified for implementation from the Odd Semester of Academic year 2023-24.

Item 21.18.3

To consider and ratify the open elective courses for M.Sc. programmes under Regulation 2022.

Note on Agenda:

The syllabi of the following open elective courses offered from Chemistry department to M.Tech. / M.Sc. programmes under R 2022, were deliberated in the 13th meeting of Board of Studies of Chemistry Department. After deliberations, the Board has recommended the same for ratification in the Academic council.

Course Code	Course Title	Credits
OEEY 701	Analytical Techniques	3
OEEY 710	Nanotechnology and Catalysis	3
OEEY 715	Structural Interpretation of Materials	3
OEEY 732	Alternative Energy Resources	3
OEEY 733	Biomass for Energy Applications	3
OEEY 734	Corrosion and its Control	3
OEEY 736	Environmental Chemistry	3
OEEY 737	Fuel Cells for Sustainable Energy Production	3

OEEY 738	Green and Sustainable Chemistry	3
OEEY 739	Industrial Pollution Control	3
OEEY 742	Surface Coating Technology	3

The syllabi of the open elective courses offered from Chemistry Department to M.Tech. / M.Sc. programmes under R 2022 is given in [Annexure 21.18.3](#).

The Academic Council may consider and ratify the same for implementation from the Odd Semester of Academic year 2023-24.

Resolution:

After deliberations, the above item was ratified for implementation from the Odd Semester of Academic year 2023-24.

DEPARTMENT OF PHYSICS

Item 21.19

To consider and approve the recommendations of 13th Board of Studies of the Department of Physics held on 14.09.2023.

Item 21.19.1

To consider and approve the revision of syllabi in Physics Courses in Semester I and II for the B.Tech. Programme under Regulations 2021.

Note on Agenda:

Based on the feedback from faculty the following physics courses related to B. Tech Programme are revised in the curriculum under Regulations 2021 and it was deliberated in the 13th meeting of Board of Studies of Department of Physics. After discussions, the Board has recommended the same for approval in the Academic council.

The salient deliberations on Physics courses to B.Tech. programmes under R-2021 with minor modifications are as follows:

a) Courses with syllabus revisions:

Course Code	Course Title	Credits
PHD 1181	Applied Physics	3
PHD 1182	Engineering Physics	3
PHDX 05	Semiconductor Physics for Information Technology	3
PHDX 06	Sensors and Actuators	3

The revised syllabi of I and II semester Physics courses of B.Tech. programme under

Regulations 2021 are given in [Annexure 21.19.1.](#)

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 21.19.2

To consider and ratify the open elective courses offered by the Physics department to III Semester M.Tech. Programmes and M.Sc. Programmes.

Note on Agenda:

The syllabi of the following open elective courses offered from Physics department to M.Tech. / M.Sc. programmes under R 2022, were deliberated in the 13th meeting of Board of Studies of Physics Department. After deliberations, the Board has recommended the same for ratification in the Academic council.

List of open elective courses for M. Sc. Programme.

Sl. No.	Course Code	Course Title	Credit
1.	OEEY 731	Advanced Materials for Energy Applications	3
2.	OEEY 703	Biomaterials	3
3.	OEEY 704	Biomedical Instrumentation	3
4.	OEEY 705	Biophotonics	3
5.	OEEY 735	Corrosion Science and Technology	3
6.	OEEY 743	Thin Film Science and Technology	3

List of open elective courses for M. Tech. Programme.

Sl. No.	Course Code	Course Title	Credit
1.	OEEY 703	Biomaterials	3
2.	OEEY 704	Biomedical Instrumentation	3
3.	OEEY 705	Biophotonics	3

The syllabi of the open elective courses offered by Physics Department M.Sc. / M.Tech. Programmes under Regulations 2022 is given in [Annexure 21.19.2.](#)

The Academic Council may consider and ratify the same for implementation from the Odd Semester of Academic year 2023-24.

Resolution:

After deliberations, the above item was ratified for implementation from the Odd Semester of Academic year 2023-24.

CRESCENT SCHOOL OF BUSINESS **DEPARTMENT OF MANAGEMENT STUDIES**

Item 21.20

To consider and approve the recommendations of 15th Board of Studies of the Department of Management Studies, Crescent School of Business held on 15.09.2023.

Item 21.20.1

To consider and ratify the codes of MOOC courses (Semester III) of MBA programme under Regulations 2021.

Note on Agenda:

In the 15th meeting of Board of Studies of Department of Management Studies, the codes of MOOC courses (semester III) of MBA programme under Regulations 2021 were deliberated. After deliberations, the Board has recommended the same for ratification in the Academic council.

a) List of MOOC courses:

Course Code	Course Title	Credits
MSEY 160	International Business	3
MSEY 161	Leadership and Team Effectiveness	3
MSEY 162	Blockchain and its Applications	3
MSEY 163	Organisational Design Change and Transformation.	3
MSEY 164	Global Marketing Management	3
MSEY 165	Quality design and Control	3
MSEY 166	Cloud Computing	3
MSEY 167	Marketing Analytics	3
MSEY 168	Six Sigma	3
MSEY 169	Business Statistics	3
MSEY 170	Modelling and Analytics for Supply Chain Management	
MSEY 171	Data analysis and Decision making	3
MSEY 172	Descriptive statistics	3
MSEY 173	Business analytics and data mining modelling using R	3
MSEY 174	Strategy and Technology: A Practical Primer	3

MSEY 175	Product and Brand Management	3
MSEY 176	Soft skills for Business Negotiations and marketing strategies	3
MSEY 177	Talent Acquisition and Management	3
MSEY 178	E- Business	3

The list of MOOC courses with revised curriculum are given in [Annexure 21.20.1](#).

The Academic Council may consider and ratify the same for implementation from the academic year 2023-24.

Resolution:

After deliberations, the above item was ratified for implementation from the academic year 2023-24

Item 21.20.2

To consider and ratify the change in course title Entrepreneurship in B Tech programmes under Regulation 2021.

Note on Agenda:

in the 15th meeting of Board of Studies of Department of Management Studies, it is proposed to change in course titled “Entrepreneurship” as “Fundamental of Entrepreneurship” which is offered to B Tech programmes under R 2021. The Board has recommended the same for ratification in the Academic council.

Course Code	Course Title	Credits
MSD 3181	Fundamentals of Entrepreneurship	3

The syllabi of the course is given in [Annexure 21.20.2](#).

The Academic Council may consider and ratify the same for implementation from the Odd Semester of Academic Year 2023-24.

Resolution:

After deliberations, the above item was ratified for implementation from the Odd Semester of Academic Year 2023-24.

Item 21.20.3

To consider and approve the open elective courses for B.Tech. programmes under Regulation 2021.

Note on Agenda:

The syllabi of the following open elective courses offered from Crescent School of

Business to B.Tech. programmes under R 2021 were deliberated in the 15th meeting of Board of Studies of Department of Management Studies, Crescent School of Business. After deliberations, the Board has recommended the same for approval in the Academic council.

Course Code	Course Title	Credits
GEDX 101	Advanced Entrepreneurship	3
GEDX 202	Basics of Management and Organizational Behaviour	3
GEDX 211	Enterprise Risk Management	3
GEDX 212	Fundamentals of Project Management	3
GEDX 216	IPR and Patent Laws	3
GEDX 217	Logistics and Supply Chain Management	3

The syllabi of the open elective courses offered from Crescent School of Business to B.Tech. programmes under R 2021 is given in [Annexure 21.20.3.](#)

The Academic Council may consider and approve the same for implementation from the even semester of Academic Year 2023-24

Resolution:

After deliberations, the above item was approved for implementation from the even semester of Academic Year 2023-24

SCHOOL OF SOCIAL SCIENCES AND HUMANITIES

DEPARTMENT OF ENGLISH

Item 21.21

To consider and approve the recommendations of 16th Board of Studies of the Department of English held on 27.09.2023.

Item 21.21.1

To consider and ratify the modified syllabus of the course END 2113 Women's Writings of the III semester, B.A. English programme under Regulations 2021.

Note on Agenda:

In the 16th meeting of the Board of Studies of the Department of English, the course END 2113 Women's Writings offered for the students of III semester B.A. English

programme is revised. The Board has recommended the same for ratification in the Academic Council.

The modified syllabus of the course is given in [Annexure 21.21.1](#)

The Academic Council may consider and ratify the same for implementation from the Odd Semester of Academic Year 2023-24.

Resolution:

After deliberations, the above item was ratified for implementation from the Odd Semester of Academic Year 2023-24.

Item 21.21.2

To consider and ratify the recommendations of the course equivalence committee for availing credit transfer of the course END 2113 Women's Writings for the students of III semester B.A. English.

Note on Agenda:

The course noc23_hs105 Feminist Writings offered by NPTEL is identified to be offered in lieu of END 2113 Women's Writings for the students of III semester B.A. English for credit transfer. Further the equivalence of the course content and credits were deliberated by the Course Equivalence Committee and the committee has recommended that the NPTEL course noc23_hs105 - Feminist Writings can be offered in place of END 2113 Women's Writings for the students of III semester B.A. English. The recommendation of the course equivalence committee has been deliberated in the 16th meeting of the Board of Studies of the Department of English and the Board has recommended the approval.

The minutes of the Course Equivalence Committee meeting is given [Annexure 21.21.2](#).

The Academic Council may consider and ratify the same for implementation from the Odd Semester of Academic Year 2023-24.

Resolution:

After deliberations, the above item was ratified for implementation from the Odd Semester of Academic Year 2023-24.

CRESCENT SCHOOL OF LAW

Item 21.22

To consider and approve the recommendations of 2nd Board of Studies of the Crescent Centre for Post Graduate Legal Studies held on 17th June, 2023.

Item 21.22.1

To consider and approve the Skill Enhancement courses for LL.M programmes under Regulation 2022.

Note on Agenda:

In the 2nd meeting of Crescent Centre for Post Graduate Legal Studies, the introduction of Skill enhancement courses for LL.M programmes were deliberated. After deliberations, the Board has recommended the same for approval in the Academic council.

I. Semester III & IV (From AY 2024-25 onwards)

a) New courses introduced / proposed:

Course Code	Course Title	Credits
MLE 7104	Research Internship: Doctrinal and Non-doctrinal	4
MLE 7203	Teaching Internship	4

The Curriculum and syllabi of the courses of LL.M. programmes under R 2022 are given in [Annexure 21.22.1](#).

The Academic Council may consider and approve the same for implementation from the Academic Year 2024-25.

Resolution:

After deliberations, the above item was approved for implementation from the academic year 2024-25

Item 21.22.2

To consider and approve the Elective courses for LL.M programmes under Regulation 2022.

Note on Agenda:

Syllabi of the following generic and discipline specific elective courses offered from Crescent Centre for Post Graduate Legal Studies under R 2022 were deliberated in the 2nd of Board of Studies of Crescent School of Law. After deliberations, the Board has recommended the same for approval in the Academic council.

Course Code	Course Title	Credits
MLE Y011	Teaching and Learning Pedagogy	4
MLE Y012	Intellectual Property Crimes	4
MLE Y013	Income Tax – Practice and Procedure	4
MLE Y014	Intellectual Property Rights and Human Rights: National and International Perspectives	4
MLE Y021	Criminal Law Relating to Women and Children	4
MLE Y022	Criminology, Penology, and Victimology	4
MLE Y041	International Criminal Law & Justice	4
MLE Y042	Hate Crimes and Criminal Law Policy	4
MLE Y031	Artificial Intelligence and Law	4
MLE Y032	Dynamics of Election Laws	4
MLE Y033	Taxation and Economic Crimes	4
MLE Y034	Cyber space and Intellectual Property	4

The syllabi of the elective courses offered for LL.M. Programme from Crescent Centre for Post Graduate Legal Studies LL.M. Criminal Law programme under R 2022 is given in [Annexure 21.22.2.](#)

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

Item 21.22.3

To consider and ratify the amendment in Curriculum and Syllabi of Specialized Core Courses of LLM (Criminal Law) under Regulations 2022.

Note on Agenda:

In the 2nd meeting of Crescent Centre for Post Graduate Legal Studies the revamping of syllabi of the Specialized Core Courses of LLM (Criminal Law) were deliberated. After deliberations, the Board has recommended the same for ratification in the Academic council.

The salient deliberations of LLM (Criminal Law) curriculum and syllabi under R-2022 with respect to “Introduction of New courses” and “Courses with Syllabus revisions” are as follows:

I. Semester I, II, III & IV

a) New courses introduced: AY: 2023-24

Course Code	Course Title	Credits
MLE 6103	General Principles of Criminal Law	4
MLE 6104	Police and Prison Administration	4

New courses Proposed: AY : 2024-25

MLE 6203	Elite Class Deviance	4
MLE 6204	Corporate, Economic & Financial Crimes	4
MLE 7103	Drugs Laws and Policies	4

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

Course Code	Course Title	Credits	Revision (%)
MLE 7101	Comparative Criminal Procedure	4	20%
MLE 7102	Criminalistics and Scientific Investigation	4	20%
MLE 7201	Cyber Crime & Digital Forensics	4	20%

The Curriculum and syllabi of the courses of LL.M. Criminal Law under R 2022 are given in [Annexure 21.22.3.](#)

The Academic Council may consider and ratify the same for implementation from the Odd Semester of Academic Year 2023-24.

Resolution:

After deliberations, the above item was ratified for implementation from the Odd Semester of Academic Year 2023-24.

Item 21.22.4

To consider and approve the curriculum and syllabi of LL.M. in Taxation Law and LL.M in Intellectual Property Law under Regulation 2022.

Note on Agenda:

The Crescent School of Law has proposed to start new programme 'LL.M. in Taxation Law' and LL.M in Intellectual Property Law. The curriculum & syllabi of LL.M. in Taxation Law and LL.M in Intellectual Property Law were deliberated in the Board of Studies of the Crescent Centre for Post Graduate Legal Studies. After deliberations, the Board has recommended the same for approval in the Academic Council.

The curriculum & syllabi of LL.M. in Taxation Law and LL.M in Intellectual Property Law under R 2022 are given in **Annexure 21.22.4 (a) & 21.22.4 (b)**.

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

Vote of thanks by the Registrar

The Registrar conveyed sincere gratitude to all the members of the Academic Council, with a special acknowledgment of the experts from both academia and industry. The expression of thanks was extended for their commitment in dedicating valuable time, active participation, and the valuable suggestions provided, all contributing to the overall development of the Institution.


REGISTRAR
B.S. Abdur Rahman
Crescent
Institute of Science & Technology
Vandalur, Chennai-600 048


VICE CHANCELLOR
VICE CHANCELLOR
B.S. Abdur Rahman
Crescent
Institute of Science & Technology
Vandalur, Chennai-600 048.