ACADEMIC YEAR: 2019 - 20

Analysis on Students Feedback: Action Taken Report

Date: 04.12.2020

I. Feedback was received from students viz. Exit feedback survey from the 2019-20 passing out students which were collected during May – June 2020, Online feedback received in a structured format in the Institution website and Level II feedback obtained from students (about the course) during April 2019 & May 2020.

II. The salient suggestions / modifications / views by students which were shortlisted for further action taken are:

   ❖ A1: Offering more skill based software courses.

   ❖ A2: To increase the period of internship, value added course, project based learning courses.

   ❖ A3: Removal of irrelevant courses from the curriculum & inclusion of new courses emphasizing on cutting edge technology and societal relevance.

   ❖ A4: To increase more field visits for courses.

   ❖ A5: Exit feedback from students – Addition / Deletion of Courses

III. Action Taken

   ➢ A1 was considered as agenda item 15.13.2, 15.13.5 and 15.14.1 of 15th meeting of Academic Council held on 25.06.20 (Page no. 57, 59 and 60 of 15th minutes of the meeting).

   ➢ A2 was considered as agenda item 15.11.2 of 15th meeting of Academic Council held on 25.06.20 (Page no. 54 of 15th minutes of the meeting). Normally internship is taken by the students in the summer vacation. But considering the pandemic situation, in the even semester 2019-20, departments and Training and Placement cell were informed to facilitate students to undergo virtual internship as per the guidelines of UGC / AICTE viz. Internshala and other organisations, Circular issued by the Registrar in this regard is enclosed as Annexure I.

- A3 was considered as agenda item 15.10, 15.11.1, 15.12.1, 15.3.1, 15.13.2, 15.13.5, 15.14.1, 15.15.2, 15.7.2 of 15th meeting of Academic Council held on 25.06.20 (Page no. 46, 54, 55, 57, 59, 60, 63 and 68 of 15th minutes of the meeting).

- A4 was considered and around 65 field visits were organised for the various courses by the Institution in the odd semester 2019-20. The field visit was not encouraged in the even semester 2019-20 as per guidelines of statutory authorities. Instead students were encouraged to pursue virtual field visits in the relevant field for possible courses.

- A5: The details pertaining to addition and deletion of courses were summarised and given in the Students Feedback Analysis report. These suggestions have been disseminated for incorporation during the major revision of B.Tech./B.Sc/B.Com/BBA/BCA/BA programmes in the academic year 2021-22.

Annexure1 : Highlighted pages of 15th Academic Council Meeting Minutes.
Annexure2 : Circular from Registrar vide ref no. 138/reg//2020 dated 08.06.2020   .

04/12/2020

Dean, Academic Affairs
DEAN (ACADEMIC AFFAIRS)
B.S. Abdur Rahman Crescent Institute
of Science & Technology
Vandalur, Chennai - 600 048, India

Items moved by Chairman, Board of studies

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

Item 15.10

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

Item 15.10.1

To consider and ratify the revised curriculum and syllabi of B.Tech. Computer Science & Engineering under Regulations 2017.

Note on Agenda:

Based on the feedback received from the students, the following 2 credit courses were revised as 3 credit courses with addition of 3 modules

CSCX206	Fundamentals of Computer Forensics
CSCX208	User Interface Design
CSCX220	Human Computer Interaction
CSCX222	XML and Web Services
CSCX216	Social Media Security

Based on the feedback from the staff members who have handled the course, and industry personnel, the syllabus contents of the course CSC3103 – Artificial Intelligence and Machine Learning has been revised.

Based on the feedback received from parents and students and also considering the industry needs, few courses were removed and replaced with new courses as follows:

S. No.	Semester	Existing course	New Course
1.	VI	CSC3223 Enterprise Mobile Application Development & Deployment using IBM Worklight	CSC 3225 Predictive Modeling Using IBM SPSS Modeler
2.	VI	CSC3224 Cognitive Analytics & Social Media Analytics (2017) / CSC 3225 Cognitive Analytics (2018)	CSC 3226 Artificial Intelligence Analyst

Based on the feedback received from parents and students and also considering the industry needs, the following courses are also revised for the programme B.Tech CSE :

CSC 3221 Foundation course in Big data Analytics

CSC 4121 Enterprise application development and deployment using IBM Cloud

CSC 4123 Advanced Course Programming in Internet of Things

CSC 4211 IBM industry Integrated project work

The course CSC 4122 Advance course Programming in Big data has been removed and replaced with new courses:

S.No	Semester	Existing course	New Courses
1.	IV	CSC 2223 Business analytics and Cognos Insight	CSC2224 Data Visualization
2.	V	CSC 3122 Business Intelligence	CSC3124 Watson Studio and Machine Learning

These revisions were discussed in the Board of Studies of the Department of Computer Science and Engineering and the board has recommended for approval.

The revised curriculum and the detailed syllabi of B.Tech. CSE under Regulations 2017 are given in **Annexure 15.10.1**.

The Academic Council may consider and ratify the same with effect from even semester 2019-20.

Resolution:

The agenda item was ratified after deliberations.

Item 15.10.2

To consider and approve the curricula and syllabi of new programmes viz. B.Tech. AI & Data Science, B. Tech. CSE (IOT) and B. Tech. CSE (Cyber Security) under B.Tech. Regulations 2017.

Note on Agenda:

To cater the needs of Industry and considering the trend in the market, the following programmes are newly introduced.

The following new courses were introduced as per the suggestions of faculty members and industry personnel:

B.Tech. AI & Data Science:

- Programming in C and C++
- C and C++ Lab
- Data mining Tools lab
- Foundation of data science

DEPARTMENT OF INFORMATION TECHNOLOGY

Item 15.11

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

Item 15.11.1

To consider and ratify the revised syllabi of course ITC1202 Programming in Python and ITCX 213 Data Warehousing, Data Mining and Data Mining Tools of the programme B.Tech. Information Technology under Regulations 2017

Note on Agenda:

Based on the feedback obtained from students and faculty, syllabi of the courses ITC 1202 Programming in Python and ITCX 213 Data Warehousing, Data Mining and Data Mining Tools of the programme B.Tech. Information Technology, R 2017 were modified. Further, the credit of the course Data Warehousing, Data Mining and Data Mining Tools is reduced to 3 from 4.

The course is also renamed as Data Mining Techniques and Tools.

These revisions were discussed in the Board of Studies of the Department of Information Technology and the board has recommended for approval. The detailed syllabi of the courses are given in **Annexure 15.11.1**

The Academic Council may consider and ratify the same with effect from even semester 2019-20.

Resolution:

The agenda item was ratified after deliberations.

Item 15.11.2

To consider and approve the value added programme on Flutter Application Development.

Note on Agenda:

A new certification programme on "Flutter Application Development" is to be introduced as a value added course and will be offered by Apple iOS ADC.

The syllabus of the course was discussed in the Board of Studies of the Department of Information Technology and the board has recommended for approval.

This course will be offered from the Academic Year 2020 - 21 onwards.

The detailed syllabi of the course is given in **Annexure 15.11.2**

The Academic Council may consider and approve the same.

Resolution:

The agenda item was approved after deliberations.

DEPARTMENT OF COMPUTER APPLICATIONS

Item 15.12

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

Item 15.12.1

To consider and approve the curriculum and syllabi of MCA (two year programme) under Regulations 2019.

Note on Agenda:

As per the AICTE mandate, MCA programme is designed as a 2 year programme to be offered from the academic year 2020 – 21.

The curriculum and syllabi has been designed based on the inputs received from faculty & industrial personnel and in line with AICTE guidelines

The syllabi of the following courses have been revised:

- Mathematical Foundation for Computer Applications
- Computer Organization and Operating system
- Database Management Systems
- Computer Networks
- Data structures and Algorithms using C/C++
- Object Oriented Software Engineering
- Data structures and Algorithms Laboratory using C/C++
- Programming in C and C++ Laboratory
- DBMS Laboratory
- Programming in Java
- Resource Management Techniques
- Cloud Computing
- Mobile Application Development
- Introduction to Data Science
- Digital Marketing Management Information Systems
- Multimedia Systems And Algorithms
- Communication Skills Laboratory

- Advanced Technology Laboratory (Cloud/Mobile/Data Science)
- Programming in JAVA – Laboratory
- Python Programming
- Internet of Things
- Big Data Analytics
- Machine Learning Techniques
- Advanced Web Development and Services
- Organizational behavior
- Python Programming Laboratory

These revisions were discussed in the Board of Studies of the Department of computer Applications and the board has recommended the same for approval.

This programme will be offered from the Academic Year 2020-21 onwards.

The curriculum and syllabi of the MCA (2 year programme) is given in **Annexure 15.12.1**.

The Academic Council may consider and approve the same.

Resolution:

The agenda item was approved after deliberations.

Item 15.12.2

To consider and ratify the revision in syllabi of the courses "CAC1102 Computer Fundamentals & Organization" and "CAC1204 Data Structures using C" offered to BCA (CTIS, MAIS, Data Science, Multimedia and Web Application Development) and B.Sc. (Computer Science).

Note on Agenda:

The syllabi of the courses CAC1102 Computer Fundamentals and Organization and CAC1204 Data Structures using C have been revised. The revised syllabi is given in **Annexure15.12.2**

The Academic Council may consider and ratify the same with effect from Even Semester 2019-20.

Resolution:

The agenda item was ratified after deliberations.

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

Item 15.13

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

Item 15.13.1

To consider and ratify the revision of curriculum & syllabi of B.Tech. Electrical and Electronics Engineering, Regulations 2017.

Note on Agenda:

The course EEC 2211 Power System I and EEC 3101 Power System II is split into three courses namely:

- EEC 2216 Electrical Power Transmission and Distribution,
- EEC 3107 Power System Analysis
- EECX 17 Power System Operation and Control

The EEC 1211 Electric Circuit Analysis is split into

- EEC 1213, Electric Circuits (Core Course)
- EECX 18 Network Analysis & Synthesis (Professional Elective course)

The syllabi of the course EEC 2107 Signals and Systems and ECCX87 Digital Signal Processing were also revised as per the suggestions of faculty members.

The curriculum and the detailed syllabi are given in **Annexure 15.13.1**

The Academic Council may consider and ratify the same with effect from the even semester 2019-20.

Resolution:

The agenda item was ratified after deliberations.

Item 15.13.2

To consider and ratify the inclusion of elective courses for B.Tech. Electrical and Electronics Engineering, Regulations 2013.

Note on Agenda:

As per the feedback of faculty members and students, the following elective courses were included in the B.Tech. Electrical and Electronics Engineering, Regulations 2013.

- o GEBX 217 Electric Vehicles
- o GEBX 218 Artificial Intelligence and Evolutionary Computing using MATLAB

Most automobile companies have decided to switch to electric, a cleaner, and sustainable alternative. Due to migration of automobile sector towards electric and hybrid vehicles, the industry is facing a shortage of talented and skilled engineers with knowledge in e-mobility. To fill the gap, it is proposed to offer minor degree programme on "Electric Vehicles" by the Department of Electrical and Electronics Engineering for other Engineering branch students.

The following courses are newly introduced as a part of the curriculum

- Fundamental of Electric and Hybrid Vehicles
- Energy devices for electric vehicles
- Electrical & Electronics for Automotive system
- Automotive transmission & communication
- HEV / xEV Motor drives and controllers
- Electric Mobility Laboratory

The Board of Studies of the Department of Electrical and Electronics Engineering has recommended the same for approval.

These courses will be offered from the Academic Year 2020-21 onwards.

The curriculum and detailed syllabi of the courses are given in **Annexure 15.13.4**

The Academic Council may consider and approve the same.

Resolution:

The agenda item was approved after deliberations.

Item 15.13.5

To consider and approve the inclusion of elective courses in B.Tech. Electrical and Electronics Engineering under Regulations 2017.

Note on Agenda:

As per the feedback of faculty members and students, the following elective courses were included in the B.Tech. Electrical and Electronics Engineering, Regulations 2017.

- GECX 220   Electric Vehicles
- GECX221   Artificial Intelligence and Evolutionary Computing using MATLAB

These revisions were discussed in the Board of Studies of the Department of Electrical and Electronics Engineering and the board has recommended the same for approval. These courses will be offered from the Academic Year 2020-21onwards.

The syllabi of the elective courses are given in the **Annexure 15.13.5**

The Academic Council may consider and approve the same.

Resolution:

The agenda item was approved after deliberations.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Item 15.14

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

Item 15.14.1

To consider and approve the revision in professional elective streams and courses of B.Tech. Electronics and Communication Engineering, under Regulations 2017.

Note on Agenda:

The existing curriculum of B.Tech. Electronics and Communication Engineering has the following stream of electives

- RF and Communication Stream;
- Signal Processing Stream;
- VLSI & Embedded System Stream.

To fulfill the technology advancements the professional electives were suggested to be revised in the following streams:

- ❖ RF Communication and Signal Processing
- ❖ VLSI and Embedded Systems
- ❖ Artificial Intelligence and Robotics

The following new courses were introduced as per the suggestions of Industry personnel, employer and alumni:

- ECCX23 Data Science
- ECCX24 Machine Learning
- ECCX25 Robotics and its applications
- ECCX27 Deep Learning
- ECCX28 Augmented Reality and Virtual Reality
- ECCX35 GPU Architecture and Programming
- ECCX55 Artificial Intelligence for Robotics
- ECCX39 Robotics and Autonomous systems

The syllabi of the courses were discussed in the Board of Studies of the Department of Electronics and Communication Engineering and the board has recommended the same for approval.

These courses will be offered from the Academic Year 2020-21 onwards.

The syllabi of the newly introduced elective courses are given in **Annexure 15.14.1.**

The Academic Council may consider and approve the same.

Resolution:

The agenda item was approved after deliberations.

Item 15.14.2

To consider and ratify the revised syllabi of course ECCX 05 Image processing and ECCX 40 IC Technology for B.Tech ECE, Regulations 2017.

Note on Agenda:

The syllabus of the course "ECCX 05 Image processing" was revised as per the suggestions of Alumni, Mr.Abinesh B.Tech, ECE, (2014-2018) and as a result of feedback given by Mr.E.Manikandan, Assistant professor, ECE, the syllabus of the course "ECCX 40 IC Technology" was revised.

These revisions were discussed in the Board of Studies of the Department of Electronics and Communication Engineering and the board has recommended the same for approval.

These courses will be offered from the Academic Year 2019-20 onwards.

The syllabi of the courses are given in **Annexure 15.14.2**

The Academic Council may consider and ratify the same.

Resolution:

The agenda item was ratified after deliberations.

Item 15.14.3

To consider and approve the Curriculum and Syllabi of minor degree Programme "Internet of Things" offered by Electronics and Communication Engineering department under Regulations 2017.

Note on Agenda:

This digital era has the popularity of a system with interrelated computing devices, mechanical and digital machines provided with unique identifiers which needs

safety standards, and better design. SCADA, DCS, Process Instruments etc have made automation more reliable and powerful.

Hence the minor degree programme on **Industrial Automation** will help the other disciplines of engineering other than Electronics and Instrumentation to acquire more knowledge in Industrial Automation

As per the suggestions of expert members the following courses were introduced

- Sensors and Transducers
- Control system
- PLC and SCADA
- DCS and Computer Networks
- Piping and Plant Engineering

The curriculum and syllabi were discussed in the Board of Studies of the Department of Electronics and Instrumentation Engineering and the board has recommended the same for approval.

This programme will be offered from the Academic Year 2020-21 onwards.

The curriculum and detailed syllabi of minor degree Programme "Industrial Automation" are given in **Annexure 15.15.1.**

The Academic Council may consider and approve the same.

Resolution:

The agenda item was approved after deliberations.

Item 15.15.2

To consider and ratify the revision in curriculum and syllabi of B.Tech. Electronics and Instrumentation, under Regulations 2017

Note on Agenda:

As per the suggestion of faculty members and students, the lab integrated course EIC2211 Thermodynamics and Fluid Mechanics is modified as theory course EIC2216 with 3 credits.

The revised syllabus of the course is given in **Annexure 15.15.2**

The Academic Council may consider and ratify the same with effect from the Academic Year 2019-20.

Resolution:

The agenda item was ratified after deliberations**.**

Resolution:

The agenda item was ratified after deliberations.

Item 15.17.2

To consider and approve the revised syllabi of elective courses of B.Tech. Aeronautical Engineering under Regulations 2017.

Note on Agenda:

Based on the suggestion of faculty members and Industry personnel, the following elective courses were revised:

- ☐ AECX 09 Fatigue and Fracture Mechanics
- ☐ AECX 09 Smart Structures
- ☐ AECX 10 Aircraft Structural testing and Qualification
- ☐ AECX 12 NDT Techniques for Aircraft Structures
- ☐ AECX 24 Aero acoustics
- ☐ AECX 32 Design of Power Plants for Aircraft
- ☐ AECX 35 Product Development and 3D Printing Technologies
- ☐ AECX 36 Advanced Manufacturing Technologies
- ☐ AECX 22 Introduction to CFD

The revisions in these courses were deliberated in the Board of Studies of Department of Aerospace Engineering and the Board recommended the same for approval.

The syllabi will be implemented from the Academic Year 2020-21 onwards.

The revised curriculum and the detailed syllabi are given in **Annexure 15.17.2.**

The Academic Council may consider and approve the same.

Resolution:

The agenda item was approved after deliberations.

Item 15.17.3

To consider and ratify the revision in syllabi of M.Tech. Avionics under Regulations 2019.

The syllabi of courses offered in II semester M.Tech. Avionics were deliberated and revised in the Board of Studies of Department of Aerospace Engineering and the Board recommended the same for approval.

The following courses were revised:

AED 6201 Aerospace Guidance and Control

B.S. Abdur Rahman
Crescent
Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956
GST Road, Vandalur, Chennai 600 048

Dr. A. Azad

REGISTRAR   Email: registrar@crescent.education

Ref.no.138/reg/2020   Date: 08.06.2020

CIRCULAR

Sub. : Revised Academic Schedule & Guidelines for pursuing Internship and other academic activities - UGC & AICTE guidelines - reg.

Ref.: i) UGC Guidelines on Examinations and Academic Calendar vide ref. D.O. No.F.1-1/2020 (Secy) dated 29.04.2020 &

ii) Letter from AICTE vide ref. AICTE/MS Office /Special 2 dated 01.05.2020.

(iii) Circular from Registrar vide ref. 105/reg/2020 dated 05.05.2020

The following are the revised academic schedule and guidelines for completing the interim academic activities in the even semester 2019-20 in view of the closure of Institution to combat COVID-19, based on the guidelines given by concerned statutory authorities.

1. Date of Reopening of Institution

The date of reopening of the institution is on 01.07.2020. However, the reopening of Institution is subject to guidelines proposed by State / Central government / Statutory bodies viz. AICTE, UGC, MHRD etc.

From 16.06.2020 - 30.06.2020, the faculty members shall continue to work from home.

2. Completion of Continuous Assessment Test

The CAT - II assessment can be extended until 22.06.2020, if required. The substitution examination for CAT-I can be completed during 23.06.2020 - 30.06.2020. The Controller of Examinations will issue separate guidelines in this regard. The faculty

members shall ensure the participation of all students in the various components of continuous assessment process and completion of the same. These guidelines are also valid for courses offered under Evening redo, Regular redo and Ph.D. courses (both directed study and regular mode). Entry of marks and generating internal marks for all courses shall be completed within one week of reopening of the Institute.

3. Continuance of Teaching & Learning Process and Project Guidance

The teaching-learning process shall be continued online for the even semester 2019-20 from 16.06.2020 until the reopening of Institution. The faculty members handling courses shall engage students by conducting special online classes on modules with complexity, revision classes for academically weak students etc., based on need, to keep the students in touch with academic activities. The completion of awarding of internal assessment marks for the specialized courses involving intense internal and external review component through online is extended up to 22.06.2020.

For final year students of both U.G. and P.G. programmes, periodic reviews on dissertation work shall be conducted online and the students shall be advised to submit a draft of the dissertation / thesis (softcopy) on or before 30.06.2020. The faculty members are advised to motivate the students and render complete support to ensure completion of project dissertation / thesis.

The online special classes for Regular / Evening Redo / Ph.D. courses shall also be continued from 16.06.2020 until reopening of Institution for the benefit of students.

4. Summer Internship in Industries & Placement

The U.G. and P.G. students pursuing their online internship in industries based on their willingness can continue the same until 30.06.2020 without affecting online teaching - learning process. For other students, Industry Internship shall be facilitated in the forthcoming Academic year 2020-21. The Heads of Departments, Deans of School and Director, Placement & Training shall monitor the progress made by students in the Industry internship and guide them accordingly.

Intense online mode Placement Drive can be continued until 30.06.2020, in particular, for the final year students.

Important Note:

The faculty members shall effectively use the work from home period for a) Teaching - learning process; b) Preparation of e-content in the courses identified for the ODD semester 2020-21 including video lectures; c) Writing project proposals for submission to funding agencies; d) Identifying areas of consultancy work and potential industries to offer the same etc.

REGISTRAR

To:

1. All faculty members

2. All HODs, Deans and Directors

Copy to:

1. Deputy Registrar (Administration)

2. Administrative Officer (A&S)

3. Finance Officer

4. Sr. General Manager

Copy Submitted to:

1. Pro Vice Chancellor

2. Vice Chancellor

04/12/2020

DEAN (ACADEMIC AFFAIRS)
B.S. Abdur Rahman Crescent Institute
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Vandalur, Chennai - 600 048, India