St. Joseph's College (Autonomous)
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Department of Computer Science
Curriculum feedback analysis and action taken report 2016-17

Feedback

- The teachers suggested incorporation of application level papers in MSc. Computer Science. This could enhance the practical skills that are necessary for the students to achieve better professional careers and explore new arenas of programming world in accordance to the relevant opportunities
- Paper presentation is a vital aspect in higher education. So, teachers insisted in improving the student presentation skills by organizing additional platforms and programmes for students to present their papers.
- The existing syllabus was analyzed in the feedback. In order to cope up with the emerging technological advancements changes were discussed and suggestions were recorded for further updations. The students and parents suggested in the incorporation of latest fields of study into the modules.

Actions taken

- As per university regulations, only 20% of modifications are permitted in autonomous colleges. The board members considering the high demand for syllabus updations, decided on implementing changes gradually. Board decided to incorporate application level papers in upcoming M.Sc. Computer Science syllabus change.
- Considering the significance of presentations and publications for the future aspirations of the students, paper publications in recognized journals were encouraged.
- The department entrusted teachers handling the courses to get feedback from stakeholders and subject experts about the syllabus revision. Further the syllabus of prestigious institution is also analyzed to incorporate advanced topics into the curriculum.

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Department of Computer Science
Curriculum feedback analysis and action taken report 2017-18

Feedback

- The department introduces certificate courses for equipping the students with additional skills beneficial for employment opportunities. The students suggested the dominant areas of relevance for opting desirable courses that can elevate their skills.
- Assessing the current trends in the job sector, the alumnae suggested the introduction of a job-oriented certificate course for the students' career development. The parents emphasized the need for more employment-based courses in the curriculum.
- The curriculum-based feedback enquired on the existing syllabus and teaching methods. For the Department of Computer Science, majority of the parents and alumnae expressed their satisfaction with the same. A few changes are suggested in the curriculum.
- For the students to gain a better insight to the working atmosphere of industries, the alumnae suggested in taking the students to recognized industrial establishments to seek and observe the mechanisms as a prior experience.

Actions taken

- A new certificate course called Cloud Computing was initiated for the students to develop their computing skills. The department decided to initiate a computer course on Data entry and Word processing for the academic year 2017-18 for upgrading of students' skills.
- Department analyzed the need for syllabus revision and decided to make changes during next revision. The courses need revision includes Java programming, Computer organization and architecture, Computational intelligence and Principles of compiler.
- The department organized industrial visits to reputed companies and firms to have a better understanding about the field. Internship opportunities are arranged for students for on job training.

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Department of Computer Science
Curriculum feedback analysis and action taken report 2018-19

Feedback

- The alumnae recommended the inclusion of application level papers or modify the existing papers to raise it to application level, for the students to gain a better experience at problem solving.
- The teaching faculty suggested the rearrangement of the syllabus in BCA paper 'Java Programming'- BCA5B09.
- Postgraduate students suggested in the revision of the existing syllabus to advance in the area of specialization and gain a better outlook on their course objectives.
- Outcome based education is a key factor in enriching the students' performance by attaining short term and long-term targets which indirectly enforces the student abilities set by the syllabus. The teachers suggested in bringing forth outcome-based mapping of the syllabus to define the curricular progression.

Actions taken

- As per the suggestion by the alumnae, the department commenced the processes for beginning a certificate course in Android Programming that would enable the students to polish their application and problem-solving skills.
- The syllabus of BCA5B09 'Java Programming' was analyzed. Unit I and II were revised with respect to the credit and number of hours.
- Revisions were done in the existing papers. Modifications in the syllabus of MSc. Computer Science:

Course Code	Course Title	Changes
CSS1C02	Advanced Data Structures	Include topics File-organization-serial, Key-sequential direct addresses, hash indexed files in the introductory part in module I and cutoff module V
CSS1C05	Computer Organization and architecture	Include topic 'Logic Families' in module I
CSS2C01	Design and Analysis of Algorithm	Include topic 'Parallel computing basics' in module V
CSS2C03	Computer Networks	Include topics 'Data communication, Channel effects, Data rate, Communication mode, Transmission mode,

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		Synchronization, Multiplexing in the introductory part' in module I
CSS2C04	Computational Intelligence	Include topics 'Decision intelligence support system, Prolog'
CSS3C01	Advanced Database Management System	Include topics 'Index, sequences, Synonyms, Data dictionary' in module IV
CSS3C02	Principles of compiler	Include topics 'Two pass assembler, LEX/YACC packages on UNIX, syntax, Directed transaction

- The Board of Studies approved the Programme Outcome (PO), Programme Specific Outcome (PSO) and Course Outcome (CO) of all the courses of Department of Computer Science

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Department of Computer Science
Curriculum feedback analysis and action taken report 2019-20

Feedback

- The teachers suggested in the syllabus revision for undergraduate and post graduate students with respect to the changing trends in field of study.
- Employers suggested in designing the syllabus based on industry demanded syllabus with the collaboration with an external agency in order to increase the employment opportunities for the students
- Startup projects among students were encouraged and more funding opportunities were sought by the parents and employers. The employers also stressed on the benefits of students qualifying SWAYAM and MOOC approved courses and suggested the importance of including it in the curriculum.
- Teachers suggested in opting Latex, the most preferred documentation system for the PG project documentation.
- The Alumnae recommended more experience for the students in independent paper presentation in order gain expertise in the field of study.
- BCA students suggested the revision of few papers by including relevant topics in the subject modules.

Actions taken

- The Board of studies decided to initiate start up projects among students. It was also decided that the students be encouraged to attend an online certificate course through SWAYAM, MOOC etc. so that they can attain the credits of as part of internal assessment through this.

- An MOU was signed with Tata Consultancies to ensure employment opportunities to students.

- The Board of Studies suggested two compulsory paper presentations and publications for BCA and M.Sc. Computer Science. It also approved Latex for project documentation for PG students

- With respect to the feedback given, the following revisions were made in B. Sc. And M. Sc. Computer Science syllabus from the consecutive academic year:

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B Sc. Revisions

SJBCA1B01 Computer Fundamentals & HTML
SJBCA2B02 Problem Solving using C
SJBCA2C03 Financial and Management Accounting
SJBCA3C06 Theory of Computation
SJBCA4C08 Computer Graphics
SJBCA5B07 Computer Organization and Architecture

M Sc. Revisions

SJCSS1C01 Discrete Mathematical Structures
SJCSS1C02 Advanced Data Structures
SJCSS2C06 Design and Analysis of Algorithms
SJCSS2C07 Operating System Concepts
SJCSS2L02 Practical II
SJCSS2C10 Principles of Software Engineering

- The following changes were approved by the BOS for BCA syllabus:

BCA1B01	Computer Fundamentals and HTML	Include topics Emerging technologies: Cloud computing, Big Data in the first module.
BCA5B08	JAVA Programming	Rearrangement of topics in modules 2, 3, 4 and 5.
BCA5B10	Principles of Software Engineering	Include topics Agile Development in module 1, Devops introduction to Design Thinking, lean thinking in module 2.

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Department of Computer Science
Curriculum feedback analysis and action taken report 2020-21

Feedback

- The pandemic situation had caused chaos and confusions in the delivery of curriculum-based education. Initiation of online sessions as a resolution has made diverse changes from the existing methodology, adding merits as well as few shortcomings. Considering the advantages, the students recommended on conducting both online and offline classes to promote a flexible learning atmosphere. According to their opinion, recorded classes are truly beneficial for later references.

- Computing world is dynamic to open new technological doorways. It is essential that one be updated with the latest computing skills and software. Taking this into account, the students as well as faculty members suggested that the curriculum be focused on the emerging technologies. The field of artificial Intelligence was a desirable area of study taken for consideration.

- The teachers suggested the addition of new programmes to the department on account of the employment opportunities the interdisciplinary fields offer. The combination of domain expertise, programming skills and mathematical knowledge tends to be an equipped course in problem solving applicable for securing good careers.

- ICT techniques in teaching and the revision of its methodologies were recommended by the employers for assuring the quality of education.

- The students requested the provision of assistance for tackling competitive examinations and preparing according to the subject-focus areas simultaneously with their college hours. UGC NET coaching after the class hours was a recommendation made by the parents for the same.

- Alumnae suggested the promotion of individual presentations and seminars as part of student-centered learning. Since the enhancement of students' presentation skill in online mode is a key aspect in acquisition of better careers and higher education in the present era, the teachers recommended in the inclusion of online presentations.

- Owing to the pandemic situation and restrictions imposed by the state government, the students and parents suggested conducting internal examinations via online mode. The teachers analyzed the various platforms compatible for accurate conduct of examinations.

Actions taken

- The classes were arranged as online and offline sessions on an alternative basis
- MSc. Data Analytics and B.Voc Software Development were introduced into the Department of Computer Science as the new programmes.

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- A virtual seminar series on 'AI: The future of work' was organized by the Department of Computer Science
- Classes were uploaded online with the effective use of ICT techniques in teaching.
- The teachers decided to arrange UGC NET coaching sessions for the students.
- Students presented seminars and assignments through online mode which increased the effective and efficient use of online tools among the students.
- The college online portal, Linways, supports inbuilt online examination. The board members decided to follow the same portal for internal examinations.

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