

CONSOLIDATED FEEDBACK FROM STAKE HOLDERS FOR CURRICULUM REVISION 2019-2020

B.Sc Computer Science

Student Feedback:

1. Add more designing /Application development papers
2. The courses should be more practical oriented than theoretical.
3. Reduce the theory portions and increase the lab portions
4. Need industrial visits
5. Introduce .NET and Android courses course in the curriculum
6. Introduce mini project to get exposure to software development
7. Teach the latest versions of the software in the lab
8. Implement project related programming courses in the curriculum
9. Reduce the portions in Microcontroller and microprocessor & Network /Web Technology
10. Handle Web technology and Microprocessor subjects in lab.
11. Reduce practical exercises in the lab
12. Add practical oriented hardware courses in the curriculum
13. Provide opportunity to experiment Python lab
14. Allocate two hours per week for comprehensive study.
15. Introduce subjects which will be useful for real life
16. Provide projects in the final year students.

Staff Feedback:

1. Introduce the labs in the same semester and don't combine it with even semester subject
2. Reduce syllabus for DSA
3. Introduce lab exposure for OS particularly for Linux OS
4. Change ADL to semester VI

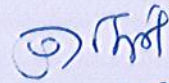
5. Specify the Applications to be developed in the syllabus of ADL lab
6. Software engineering course may be included
7. Introduce case studies and also self study portions
8. Add content/Delete content /Remove Content for some subjects

Alumni Feedback:

1. Introduce R programming with lab exposure
2. Introduce Mobile Application Development
3. Introduce .NET with practical
4. Provide Data Analytics using Excel

Employer Feedback:

1. Introduce Mobile Application Development
2. Provide Scripting languages like JQuery, AngularJS , NodeJS
3. Add the advanced RDBMS concepts with Oracle, SQL server, MongoDB and Postgres in DBMS syllabus
4. Introduce the content like AWS , Azure in Cloud Computing
5. Introduce Automation Testing, Testing tools like Selenium and Jmeter etc.,



Signature of the HOD

Chairman BOS (Computer Science)

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NEHRU MEMORIAL COLLEGE (AUTONOMOUS)
(Nationally Accredited with "A" Grade by NAAC)
PUTHANAMPATTI

PG and RESEARCH DEPARTMENT OF COMPUTER SCIENCE
CURRICULUM REVISION 2019-20

CONSOLIDATED FEEDBACK REPORT ON 2015 SYLLABI

Programme: BCA (Bachelor of Computer Applications)
Stakeholders: Students
Feedback Mechanism: Feedback obtained from Second and Third year Students

Salient Features

1. Most of the courses which are listed below are useful for Job Opportunities and Higher studies
Python, Java, mobile Apps Development, .NET and Linux
2. The cloud computing and Programming using R are helpful to explore through recent trends.
3. The Skill Development course image editing lab and Tally are very use full job opportunities.

Expectations:

- Need C++.
- Web technology lab need.

Stakeholders: Alumni
Feedback Mechanism: Feedback obtained from our alma matter through Personal, Mail and Telephonic Conversations.

Strength:

- Python Language was useful for industry.
- Cloud Computing & R are Useful

Recommendations

- Web technology Lab need
- IOT need for current trends.
- Need Digital & Architecture

Stakeholders: Industry Experts

Feedback Mechanism: Syllabi were sent to industry people and their opinion was recorded.

- All the courses are very well.
- Move software Engineering in core.
- Need IOT
- Web technology Lab introduced

Stakeholders: Faculty

Feedback Mechanism: Feedback obtained from respective course teachers.

- C++ need.
- Digital and Architecture may be introduced.
- Operating System text book may be changed:

Stakeholders: Employer

Feedback Mechanism: Syllabi were sent to industry people and their opinion was recorded.

- Courses are very neat and well.
- Need web technology Lab
- New courses for the UG degree programme.
Digital and Architecture
C++
IOT
- Give lab instead of SKBC Theory.

Conclusion

The following unique features of the curriculum have been well appreciated by the stakeholders

- a) Sequences of the course structure.
- b) Python Programming
- c) Cloud Computing
- d) R Programming
- e) MobileApps Development
- f) .NET

The following are the recommendations given by stakeholders

- a) C++
- b) Digital and Architecture
- c) IOT
- d) Web Technology Lab

Action Taken

Consolidated feed back report has been placed in **Pre Board of Studies meeting dated 5.09.2018 and 08.09.2018** & the following courses are suggested based on the feedback

- 1. Recommended to include *Digital and Architecture*
- 2. Web technology should be moved as Core Course
- 3. Give lab instead of SKBC Theory
- 4. Include Web Technology Lab
- 5. Internet of Things

Encl: Minutes of pre BOS

The minutes of Pre Board of Studies were placed before the **Board of Studies meeting** along with the feedback report dated **28.09.2018**. After detailed deliberation the following courses have been included in the new curriculum

- 1. Recommended to include *Digital and Architecture*
- 2. Web technology should be moved as Core Course
- 3. Give lab instead of SKBC Theory
- 4. Include Web Technology Lab
- 5. Internet of Things

Encl: Minutes of Board of Studies

Docs

Feed Backs Received

Consolidated report of feedback

Action Taken

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PG and RESEARCH DEPARTMENT OF COMPUTER SCIENCE

CURRICULUM REVISION 2019-20

CONSOLIDATED FEEDBACK REPORT ON 2015 SYLLABI

Programme: Mater of Computer Applications
Stakeholders: Students
Feedback Mechanism: Feedback obtained from Second and Third year Students

Salient Features

1. Platform Based Development courses which are listed below are useful for JOB OPPURTUNITIES.
Platform based development-I (Web)
Platform based development-II(Game Development)
Platform based development-III(Mobile App)
2. The distributed application development using J2EE & .NET are used to improve depth knowledge in the relevant subjects.
3. The cloud computing and Big Data analytics are helpful to explore through recent trends.
4. The Skill Development courses: Soft skill, Aptitude, Debugging, Programming Skill development, Professional Skill development are the most useful courses which give the confidence to face different levels of interview.

Expectations:

- Simple projects for each practical course.
- Little more complex problems in programming skill development.
- More exposure in document preparation for projects.
- Require Software Engineering based workshop Before Project.

Stakeholders: Alumni

Feedback Mechanism: Feedback obtained from our alma matter through Personal, Mail and Telephonic Conversations.

Strength:

- Linux Commands are useful for industry. Linux/AIX has good scope.
- Big data & Machine Learning are Useful.
- Jquery is advantageous. Along with that new scripts may be introduced.

Recommendations

- Automation of testing.
- Angular JS and Node JS.
- Require Bootstrap framework.
- Simple applications for Distributed Application Development using .NET.

Stakeholders: Industry Experts

Feedback Mechanism: Syllabi were sent to industry people and their opinion was recorded.

- Semester II courses are overloaded. May move DBMS to Semester III.
- In Semester III prerequisite for JAVA example: C++ is required. Software Testing better be studied after Software engineering.
- Courses are in-line with new trends.
- Human Resource Management may be changed.
- Practical List should be given based on the concepts.
- Implementation of Software Engineering Concepts in Project

Stakeholders: Faculty

Feedback Mechanism: Feedback obtained from respective course teachers.

- Remove Struts framework from J2EE due to heavy syllabus
- Operating System:
 - Principles of Deadlock may be moved from UNIT II to UNIT V.
 - In Practical course, OS Installation is required
- Platform Based Development-I[Web]: Remove OOP inPHP
- Platform Based Development-II[Game]: Different applications may be given along with Game.
- Service oriented Architecture: Amazon Web Services may be added

Stakeholders: Employer

Feedback Mechanism: Syllabi were sent to industry people and their opinion was recorded.

- Problem Solving Questions may be added for the necessary courses in the external examination.
- New courses for the PG degree programme.
 - Cloud Computing
 - Big data analytics
 - Information Security
- Bridge course for Non-Computer Science students.

Conclusion

The following unique features of the curriculum have been well appreciated by the stakeholders

- a) Platform Based Development Courses
- b) Skill Development Courses
- c) Cloud Computing
- d) Big data Analytics

The following are the recommendations given by stakeholders

- a) Bootstrap Framework
- b) Angular Js and Node js
- c) Implementation of Software Engineering Concepts in Project



**Signature of the HOD & Chairman (BOS-MCA)
(M.Muralidharan)**

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PUTHANAMPATTI

PG and RESEARCH DEPARTMENT OF COMPUTER SCIENCE

CURRICULUM REVISION 2015-16

CONSOLIDATED FEEDBACK REPORT ON 2011 SYLLABI

Programme: Mater of Computer Applications

Stakeholders: Students

Salient features:

1. Web programming (PHP & Mysql) course is useful for developing web sites related projects & for job opportunities.
2. Distributed programming using J2EE is used to improve depth knowledge in JAVA and distributed application development.
3. Windows programming using Win 32 API and MFC is used to improve depth knowledge.
4. Cloud Computing is helped to know and learn about recent trends.
5. XML and Web Services course with practical is used to explore through web services concepts.
6. CASE TOOLS Lab is useful to learn application development.
7. Scientific Programming in Python course is useful for job opportunities.
8. Soft skill and Technical Skill are helped to attending interviews.

Expectations:

- In JAVA, Introduce basic concepts in First 2 Units and Advanced concepts in next 3 units.
- Computer Organization and Architecture can be replaced by any other new course.
- Multimedia portion of Graphics in Computer Graphics and Multimedia course should be increased.
- Cloud Computing Syllabus Should be improved.
- Practical Session for Python course is required.

Stakeholders: Alumni

Feedback Mechanism: Feedback obtained from our alma matter through Personal, Mail and Telephonic Conversations.

Recommendations

- Need Practical exposure in Mobile technology and cloud platform.
- Practical sessions must have tools like notepad++, Eclipse IDE, WinMerge, etc

- Need to Introduce Advanced java instead of core java for MCA.
- No need for Office Automation Lab (MCA).
- We may add Mini projects every year
- Need to add career oriented elective papers , this may include resume preparation, Apps, Reasoning , Interview tips, Do's and Don'ts , Personality development etc.

Stakeholders: Industry Experts
Recommendations

- Suggested to Divide “C” Language into 2 parts as Basic concepts in C and Memory Management to Data Structures
- New Courses to be added
 - I. Mobile Programming
 - II. Cloud Computing
 - III. Big Data and Data Science tools with Hadoop
 - IV. XML and Web Services with JSON Parsing
- Practical List should be given based on the concepts
- Implementation of Software Engineering Concepts in Project

Stakeholders: Faculty

Feedback Mechanism: Feedback obtained from respective course teachers.

- In Web Programming course complete Set of HTML tags in UNIT I is required and image, sound and video portion from Unit I may be removed. OOPs Concepts may be added to the course.
- In Software Lab 1 [C], Programs Using Macros & Pre-processors should be added.
- Data Structures and Algorithms course : In Unit II, Tree traversal may be added. Dictionary and its implementation may be removed. Searching Techniques can be added in Unit V.
- It is required to minimize Lang Package & util Package Classes in Programming in JAVA course and it is better to add Swing and Networking
- Operating System course Syllabus is too heavy. Allotted hours is not enough. So Case Study should be removed
- Computer Organization and Architecture Syllabus should be reduced and Eliminate Parallel Processing, Pipelining and Multiprocessor topics
- In Windows Programming using WIN32 API and MFC, Unit IV & V should be modified.
- Software testing concepts may be reduced and Test Strategies for OO Software, Statistical SQA and ISO 9000 Standard should be removed in Software Engineering course.

- In Principles of Compiler Design, Implementation of Simple Stack Allocation Scheme & Block Structured Languages from UNIT IV can be removed
- In Mobile Computing (Elective Course 3), Technologies can be separated into Individual Unit, Additionally add Android theory and Practical.

Stakeholders: Employer

Suggestions:

- In external examination of Programming language courses, problem solving questions may be added
- Introduction of SDLC, Quality Assurance, and Roles of Business Analyst in Software Engineering Course
- New courses for the PG degree programme.
Mobile Programming
Cloud Computing
Big data analytics
Information/Network Security

Conclusion

The following unique features of the curriculum have been well appreciated by the stakeholders

- a) Web Programming
- b) Distributed application development using J2EE
- c) Skill Development Courses
- d) Domain based Electives

The following are the recommendations given by stakeholders

- a) Big Data Analytics
- b) Information Security
- c) Cloud Computing
- d) Mobile Programming



**Signature of the HOD & Chairperson
(M.Muralidharan)**