B.Sc. COMPUTER SCIENCE

Minutes of the 1st BOS Meeting
Held on **Friday 30th August, 2019**

Following members were present;

1. Mrs. Shubhangi Pawar   HOD/Chairperson
2. Mrs. Deepika Sharma   Member
3. Mrs. Vidya Agnas   Member
4. Mrs. Ramya S. Kumar   Member
5. Dr. Manoj Devare   Subject Expert
6. Dr. Archana Chaugule   Subject Expert
7. Dr. Amey K. Tripathi   Vice Chancellor Nominee
8. Mr. Anant Baddi   Industry Expert
9. Mr. Swapnil Desai   Alumni
10. Dr. Gajanan Wader   Principal

Meeting started at 12.00 noon under the chairmanship of Mrs. Shubhangi Pawar after self introduction

Agenda 1: To Intimate about Notification Regarding Autonomous Status

The Chairperson welcomed members and presented the following documents awarding Autonomous status to the College
(a) Report of UGC Expert Committee appointed for evaluation.
(b) Approval Letter from UGC Dated 2^{4th} June, 2019
(c) Approval Letter from University Dated 1 July, 2019

Agenda 2: To discuss the Pattern of Revision in Syllabus undertaken uniformly by all the subject teachers.

The Board of Studies members reviewed the change in syllabus made by the respective subject teachers related to Computer Science subjects. The Chairperson intimated the members that syllabus has been revised to the extent of 5% to 10% changes.

Agenda 3: To discuss and finalize the Revision in Syllabus of subjects under Department of Computer Science

After review of the revised syllabus, the Board of Studies members discussed and finalized the revision made in the syllabus with the following suggestions.

- Dr. Amey Tripathi suggested that, IOT subject topics can be application based, teacher's idea must be encouraged for third year students project subject and Peer learning will be better instead of Individual Project.He also suggested different credits can be given for different subjects .He advised to use Bloom's taxonomy to prepare question papers and to keep a minimum number of sub questions under each question. He suggested to encourage for certificate courses on Application Security and also to keep department level and institute level elective course.

- Dr. Manoj Devare suggested that Artificial Intelligence and Data Science can be included in syllabus. He also suggested that in computer organization, only the basics of Demux, counter, RISC can be included. He advised to include topics on Advanced Excel for Commerce stream

- Dr. Anant suggested that Bank security, security in E Commerce and Big Data can be included in syllabus.He also suggested to keep common electives for I.T and C.S. from an Academic point of view. Regarding students' project, he suggested that the topic must be decided for at least two months before the semester begins, access to articles must be provided and moodle can be encouraged to be used by students

- Dr. Archana Chaugule suggested that for programming subjects more practical lectures can be given.

After the discussions, the Board approved the revision/changes in the syllabus of the subjects for SEM I, III & V.as per the revision statement given below-

B.Sc. Computer Science
Syllabus revision for the Academic Year 2019-2020 (Semester I, III & V)

Sr. No.	Name of the Subject	Subject Teacher	Topic Added	Topic Removed	Reason for Replacement	Reference for Added Topic	15 Internal Marks Allocation
Semester I							
1.	Programing with Python-I	Jabeen Masum	Classes and Objects:	NIL	Introduction to classes and objects is the base to data structure with python	Beginning Python	Mini project using python concepts
2.	Database System Concepts	Mrs Shubhangi Pawar	Advanced Query including Test condition	NIL	To understand query extraction where clause search condition is required	Database System Concepts by Korth	Presentation for any application with database concepts

3.	Discrete Mathematics	Sudha Ramesh	Number Theory	Intersection of lines	Number theory is useful in computer algorithms and programming languages	Discrete mathematics and its applications by Kenneth H. Rosen	Class test and assignment
4.	Descriptive Statistics and introduction to Probability	Sabitha Praveen	Permutation and combination	Coefficient of determination	Permutation and combination is the base for probability	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New Delhi	Class test and assignment
5.	Soft Skills	Juliet Esther. E	Public Speaking	Nil	Improve Communication Skills Enhance Your Public Speaking	Soft Skills: An Integrated Approach to Maximize Personality, Gajendra S. Chauhan, Sangeeta Sharma, Wiley India	Presentation and Project
6.	Free and Open Source Project	Mrs. Arjuman Shaikh	Benefits of virtualization, How Virtualization works, Types of virtualization	Nil	It will help students to learn more about virtualization technology	https://www.vmware.com/in/solutions/virtualization.html https://searchservervirtualization.techtarget.com/definition/virtualization	Class test (10) and assignment(5)
7	CO	Mr. Ishmeet Singh	Tristate Buffer,FSM, Stack Frame	Demultiplexer,Counters,RISC,CISC processor Organization	Students will learn to design 4x4 RAM,Working mechanism of peripherals	Carl Hamacher et al., Computer Organization and Embedded Systems,	

Semester III							
1.	Physical Computing and IoT Programming	Agnas Vidya Michael	IoT Development Examples: NEST Smart Home, DHL's IoT Tracking and Monitoring System, Kohler Verdera Smart Mirror, Ninja Blocks, ACOEM Eagle, EnOcean Push Button	-	Students will learn about different IoT Development	www.yole.fr/iso_upload/Samples/Yole_IoT_June_2014_Sample.pdf	Case study [5M] + Presentation [10M]
2.	Theory of computation	Priya Haldar	**Decidability:** The Definition of algorithm, Decidability, Decidability	-	Students should learn decidability along with undecidability concept	Theory of Computer Science, K. L. P Mishra, Chandrasekharan, PHI,3 rd Edition	Case study [15M]
3.	Core Java	Mr. Omkar H. Sherkhane	-	-	-	-	Design a mini project using awt
4.	Operating Systems	Mrs. Sujata Shahabade	different types of operating System	NIL		Abraham Silberschatz, Peter Galvin, Greg Gagne, Operating System Concepts, Wiley,8 th Edition	

5.	Mr. Abhijeet Salvi	Web Programming	XSLT Elements and Attributes	Bootstrap	Advanced Topic Removed topic not in use	https://www.tutorialrepublic.com/twitter-bootstrap-tutorial/	Mini web project
6.	Database management system	Shubhangi pawar	Advanced pl/sql concepts like cursor ,parameterized cursor	Comparison of file organization systems cost model	Advanced pl/sql concepts need to be introduced along with pl/sql		
7.	Combinatorics and graph theory	Sudha Ramesh	Graph algorithms	Applying probability to combinatorics	Graphs are widely used in software	Applied Combinatorics by Mitchel T. Keller	Class test and assignment
Semester V							
1	Linux Server Administration	Priya Haldar	Backup: Evaluating backup needs,command line backup tools	-	To learn how to backup linux system	Linux Administration: A Beginner's Guide, Wale Soyinka, Seventh Edition, McGraw-Hill Education, 2016	To configure iptables and write script[15M]
2	Information and Network Security	Mrs. Sujata Shahabade	**HTTPS, SSH**	Key Management	Repeated topic & HTTPS & SSH are advanced methods		Application based case study
3.	Game Programming	Agnas Vidya Michael	**Other Game Engines:** A-Frame (VR), Gamvas, Three.js,PlayN, TOSHI, DX Studio	-	Students will learn about different game engines	https://www.revolvy.com/page/List-of-game-engines	Case study [5M] + Presentation [10M]

4.	Web Services	Mr. Abhijeet Salvi	Develop Asynchronous web Services WCF Transactions & Sessions Hosting WCF services	NIL	more relevant, industry oriented	Internet references	Presentation and Case Study
5.	Software Testing and Quality assurance	Mrs Shubhangi Pawar	**Development of CMM** CMM – software configuration management (SCM), defect prevention (DP).	Utilizing Quality Costs for Decision-Making	Not in use ,and agile methodology need be introduced with students		Presentation and Case Study

Agenda 4: To discuss and finalize the Question Paper Pattern

The question paper pattern was discussed and finalized with 60:40 pattern, 60 marks for semester end assessment and 40 marks for continuous assessment. Continuous assessment consists of the following:-

Continuous Assessment I - 20 marks(centralised test)

Continuous Assessment II - 15 marks(small project/case study/field job/assignment) + 5 marks for attendance = 20 marks

Semester End Examination Question Paper Pattern :

- ● 4 questions per unit.
- ● 5 sub-questions in each question(any 3 have to be attempted)
- ● Duration 2 hrs.

Practical Examination : 50 marks

Agenda 5: To approve and recommend changed syllabus to Academic Council

Members of Board of Studies approved the revised syllabus and question paper pattern and recommended the same to be forwarded to the Academic Council for their approval.

Agenda 6: Any other matter with the permission of the chair

Dr. Manoj will share his college syllabus for reference. All the other B.O.S. members stated that they will help us by sharing their faculty members database so that we can strengthen our Paper Setters and Examiners panel.

Since there were no other matters for discussion the meeting was dissolved to thanks to chair.