B.Sc. INFORMATION TECHNOLOGY

Minutes of the 1st BOS Meeting
Held on Thursday 29th August, 2019

Following members were present;
1. Mrs. Deepika Sharma   HOD/Chairperson
2. Mrs. Anju Malpani   Member
3. Mrs. Sujata Shabade   Member
4. Mrs. Sreevidya T.V.   Member
5. Dr. Sudhir Bagade   Subject Expert
6. Dr. Anant Bagade   Subject Expert
7. Dr. Hiren Dand   Vice Chancellor Nominee
8. Mr. Tito Aby Idicula   Industry Expert
9. Mr. Akhilesh Kartha   Alumni
10. Dr. Gajanan Wader   Principal

Meeting started at 12.00 noon under the chairmanship of Mrs. Deepika Sharma 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 of 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 Information Technology subjects. The Chairperson informed the members that syllabus has been revised to the extent of 5% to 10% changes and changes will be incorporated in the teaching plan in due course. Syllabus of Post Graduate course not changed for academic year 2019-20 due to lack of time. It is kept at par with syllabus of University of Mumbai.

Agenda 3: To discuss and finalize the Revision in Syllabus of subjects

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. Sudhir suggested not to add anything in Operating System subject syllabus of S.Y B.Sc. I.T class since it's already very vast. He suggested to make last unit as a part of practical.

● Mr. Tito suggested that, the project for Python subject must be based on Analytics instead of game development. He also suggested that, IOT project topic must be specific(Home automation or industry automation) i.e the project must be solution based. Add-on courses can be formed for the advanced

topics. For example, React framework in Advanced Web programming.
- Dr. Anant Bagade mentioned that the project for DBMS must be based on client-server communication.
- Dr. Hiren Dand (V.C. nominee) mentioned that, Cordova framework for mobile programming can be replaced with Ionic framework in academic year 2020-21. He also suggested that, syllabus of Microprocessor subject is lengthy. It can be reduced. He also suggested that students can build up practicals related to each topic, on the previously done practical, which will lead to one project at the end of the subject syllabus. So that, students will understand the concepts well practically. He also mentioned that, flowchart and algorithms must be added to First year syllabus for logic building and should be present in the practical files of all the programming subjects.
- Mr. Akhilesh (meritorious alumni) suggested that, keep initial 2 units based on the introduction of the concepts and remaining units based on more practical based topics which relate to current trend. For example, instead of keeping entire syllabus based on microprocessor 8085 and 8086; simply include its introduction in initial units and add topics related to latest microprocessor series such as i3, i5 etc. in remaining units.
- Dr. Subodh Bagade suggested that, a project can be assigned to students of Second year which will cover all the subjects for 75 where they will be equally distributed as 15 marks per subject.

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. Information Technology

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.	Imperative Programming	Varsha Chatuphale	File Systems	Storage classes	Preprocessor directives covered in the beginning. File System is more relevant and used .Also is carried forward in C++ so has a reference ahead.	E.Balagurusamy	Mini project using C language implementing C concepts for real world problems.
2.	Operating systems	Padmaja.A	IOS operating system concept.	-	-	Galvin	Case Study using different operating systems
3.	Discrete Mathem	Soly Zachariah	Traversing graph by	-	In case of unweighted	Susanna S.Epp	Class test (10) and

No.	Subject	Name				Reference	Activity
	atics		breadth first search and depth first search,		graphs, we can use either Depth or Breadth first traversal for finding a spanning tree.		assignment(5)
4.	Digital Electronics	Padmaja.A	Memory,Different types of memory.	-	-	R.P.Jain	
5.	Communication Skills	Juliet Esther.E	Crisis Communication	Corporate Communication	More clear and specific	ArunaKoneru, McGrawHill – Professional Communication.	Presentation and Project

Semester III

No.	Subject	Name				Reference	Activity
1	Applied Mathematics	Dr. kumudini Das	De Moivre's Theorem, Average by double integration	J operator Particular Integral other method, Solution of simultaneous differential equation by laplace,Differentiation under the integral sign	The topics added in the syllabus will give a practical knowledge to the students	Applied Mathematics II,P. N. Wartikar and J. N. Wartikar,Pune VidyathiGraha	Assignment(5M) Class Test(10M)
2	Data Structures	Mrs. Prajakta Kane		Reachability		Very complex for student	Presentation on Data structures topics with relevance to real life applications
3	Computer Networks	Mrs.Dhanya Vinish	------------------	Internet History	General topic	Data Communication and Networking, Behrouzand Fourazan	Configuring and implementing using topologies, Case study

4	Python Programming	Ms. Jabeen Zuzer Masum, Mrs. Anju Somani,Ms. Priya Haldar	Introduction to SQL queries.	Regular expression ,Multithreaded Programming	To give a detailed knowledge about types of layouts available,to revise SQL queries.	Think Python	Game development project.
5	Database Management	Ms.sadaf shaikh	Indexes,sequences,different types of triggers,transaction states , %type,%rowtype attribute	Time stamping protocols ,optimistic methods	Practical oriented concepts are given in more details	Database System and Concepts By A Silberschatz, H Korth, S Sudarshan	Mini project on creation of database

Semester V

1	Software Project Management	Deepika Sharma	Project Management Softwares and Emerging Trends in Software Project Management	Software Quality, Working in teams, Managing contracts and people	New topics will help students learn about the tools that help Project Managers as well as they will learn the current trends in managing the projects in the industry	https://www.proofhub.com/articles/project-management-trends https://technologyadvice.com/project-management	**Field Job:** Report submission of the field work done by students in some software company. Report has to be exactly as per the detailed guidelines given to the students.
2	Internet of Things	Sreevidya T.V	IoT Development Examples: NEST Smart Home,DHL's IoT Tracking and Monitoring System, Kohler Verdera Smart	--------	Students will learn about different IoT Development	www.yole.fr/iso_upload/Samples/Yole_IoT_June_2014_Sample.pdf	Projects based on IOT applications

			Mirror, Ninja Blocks, ACOEM Eagle, EnOcean Push Button				
3	Advanced web Programming	Anju Somani & Varsha Chatuphale	Jquery,why jquery,jquery syntax,the document ready function,event function,Jquery Effect methods	Security fundamentals	Ajax and Jquery are more relevant.. jquery is industry oriented and used in Ajax also.	Html 5 Black Book,dreamtech Press,2nd edition	Mini web project using web controls.
4	Next Generation Technology	Rashmi Chavan	Introduction to Cloud Computing, ,Parallel and Distributed computing	End of disk and in memory database	Cloud computing is more relevant to industrial implementation	Mastering Cloud Computing Foundations and Applications Programming	Case studies based project
5	Linux System Administration	Kuldeep Prabhu	Advanced Linux Shell Scripting, Introduction to Vsftpd.		asking for input topics already covered in the introduction of shell script	Linux shell Scripting Cookbook, Second Edition, Shantanu Tushar	Programs on Shell Scripting to perform the different tasks as user wants

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 (centralized 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

Dr. Anant suggested that Bloom's method should be followed for questions in exam to develop logical thinking of students.

Mrs. Deepika Sharma mentioned that a panel of Question paper setters for F.Y, S.Y and T.Y will be created. 3 sets of question papers will be submitted (2 sets by internal teacher + 1 by external teacher). She also mentioned that, no coordination should be between paper setters so that system will not be diluted.

Also, chairperson of B.O.S. will finalise the question paper (screening committee) and then it will be forwarded to the exam committee. It was stated by her that, moderation will be done at all the levels(FY, SY, TY).

Mr. Tito suggested that, in case of programming language subjects give case study to students instead of direct programs so that, students will need to first come up with solution and then they can perform practical. He also suggested some frameworks for open source project development such as, ASANA(launched by Google), Design Sprint. He suggested Data camp for add-on courses.

Dr. Anant suggested NPTEL courses which are available online for add-on courses.

Mrs. Deepika Sharma mentioned that, extra credit will be given to students based on any certificate course or project or Business startup idea.

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

Mr. Tito has discussed that he can keep a practical implementation session on the basics of logic building techniques for students and teachers on 23rd November, 2019.

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