

RAMNARAIN RUIA AUTONOMOUS COLLEGE**DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY**

MINUTES OF MEETING	DATE: - 26-08-2019	TIME:- 1:00 to 04:00 PM
MEETING PLACE	Department of Comp. Sci. & IT, Ramnarain Ruia Autonomous College	
MEETING CALLED BY	Ms. Megha Sawant, HOD & Chairperson	
TYPE OF MEETING	Subject Board Meeting for M.Sc. Information technology Syllabus (2020-21)	
NOTE TAKER	Ms. Edith Juni	
MEMBERS ATTENDED		
<ul style="list-style-type: none">• Ms. Megha Sawant, Chairperson, Ramnarain Ruia Autonomous College• Dr. Kamatchi Iyer, Assist Prof, Amity University• Dr. R. Srivaramangai, Assist Prof, University of Mumbai• Dr. Vinay Kulkarni, Adjunct Professor, Indian Institute of Technology, Bombay• Mr. Atul Jadhav, Co- Founder & Director, 9th legend Inc• Mr. Abhijeet Gole, Assist Prof, Ramnarain Ruia Autonomous College• Ms. Rasika Mundhe, Assist Prof, Ramnarain Ruia Autonomous College• Ms. Edith Juni, Assist Prof, Ramnarain Ruia Autonomous College• Mr. Mahavir Advaya, Assist Prof, Ramnarain Ruia Autonomous College• Ms. Pooja Rasam, Assist Prof, Ramnarain Ruia Autonomous College• Ms. Kiran Prajapati, Assist Prof, Ramnarain Ruia Autonomous College• Ms. Priyanka Vaddepalli, Assist Prof, Ramnarain Ruia Autonomous College		
MEETING AGENDA FOR M.Sc. INFORMATION TECHNOLOGY		
<ol style="list-style-type: none">1. To brief about the last BOS meeting2. To review the Feedback of students about the Curriculum.3. To brief the modalities of assessment, this includes the question paper pattern, for internal and external examinations.4. To revise the syllabus in the subject of Information Technology for M.Sc. (Part I & II) classes.5. To review Questions Papers of previous exams and comparison with the University Question Papers.6. Any other matter with the permission of the Chairman.		
AGENDA 1	To brief about the past BOS meeting	
The chairperson brief the BOS members about the last BOS meeting minutes held in March 2019.		
DISCUSSED ABOUT:		

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DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

- There were no changes in the curriculum of M.Sc. Computer Science in the last BOS meet held in March 2019.
- Some of the B.Sc. Courses were replaced by new ones.

RESOLVED THAT:

- The curriculum of B.Sc. and M.Sc. Computer Science was accepted without any change by the BOS Members.

AGENDA 2 To Review the Feedback of students on the Curriculum.

The chairperson briefed about the feedback that was taken from students to know their view about the curriculum. Students have appreciated the efforts taken by all of us and also have liked the syllabus. We have summarized the feedback that is as follows:

- More of practical oriented subjects to be included in the syllabus.
- Latest and advanced technologies should be included
- To keep only Internships in the Last semester of M.Sc.

Further discussions were held and the decisions taken are as follows:

DISCUSSED ABOUT:

- Including practical oriented papers emphasizing more on practical.
- Including latest and advanced technologies like AngularJS, NodeJS, MongoDB, ReactJS, Machine Learning and IoT.
- Including only internship in the last semester and giving more credits to internship.
- Final Project to be implemented in semester III instead of semester IV.

RESOLVED THAT:

- Practical oriented papers were approved.
- Latest technologies like AngularJS, NodeJS, MongoDB, ReactJS, Machine Learning and IoT were included in the curriculum.
- Only internship in the last semester was approved.
- Implementing final project in Semester III approved.

AGENDA 3 To brief the modalities of assessment, this includes the question paper pattern, for internal and external examinations.

DISCUSSED ABOUT:

- Modality of assessment for (Internal & External) for theory, practical, project & internship.

RESOLVED THAT:

- As there was no change in the Modality of Assessment there was no further discussion.

AGENDA 4 To revise the syllabus in the subject of Information Technology for MSc (Part I & II) classes.

DISCUSSED THAT:

- Semester I
 - Data science
 - Add all the test t, f, hypothesis, Anova .
 - Cyber Security
 - Title to be changed as Information security

- Wireshark is a monitoring tool so try something else also like network security
 - Implementing cloud security using WAF & configuration
 - Refer open computer forensic architecture
- IOT
 - Make use of simulators along with Raspberry Pi and Arduino.
 - Including the topic Industry 4.0 was appreciated.
 - Suggestion to include IOT analytics.
 - Edge computing in demand, Architecture is there will come to know about connection
 - Use of IoT in industry along with Cloud analytics via IOT.
 - To include IoT based case studies
 - Demonstration and use of Cloud platforms like IBM Watson, Google IoT, AWS IoT was suggested.
- Semester II
 - Big Data Analytics
 - SPARK to be added
 - Program can be done in different language
 - 5-6 hours to be dedicated for SPARK
- Semester III
 - Bayesian & Machine learning
 - Add one unit on Deep Learning
 - Title to be changed as Advanced Machine learning
 - Cloud Computing
 - Application building on Google app engine
 - Cloud Computing for Mobility instead of Mobile Cloud Computing.
 - Comparison of cloud on local servers and in data centers should be included. Break even cost analysis for cloud services was suggested as a part of the syllabus.
 - Identifying the data placement on cloud and also local infrastructure.
 - UX/UI designing
 - Philosophy & Psychology of a person to be included to understand the thinking patterns of human mind.
 - Designer has to think in that mind.
- Semester IV
 - Ethical Hacking
 - Title to be changed as Cyber security
- Semester II & III
 - Full Stack Web Development
 - Including two technologies on designing/developing , two technologies on database, two technologies on server was suggested.
 - Introduction of Full Stack Development should be given 2 to 3 hrs of lecture at the beginning. So that it becomes easy for the students to adapt the concepts and prepare for future trends.
 - Web architecture, web services to be included.
 - Introduction to Docker was suggested.
 - Unit wise bifurcation- front end, client end or business, database, server was suggested.

RESOLVED THAT:

- Cyber security Title changed to Information security
- More on statistics like test t, f, hypothesis, Anova will be added in Data Science / Big Data Analytics.

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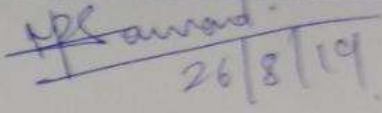
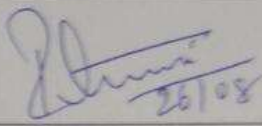
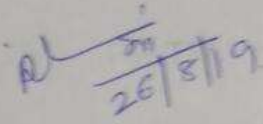
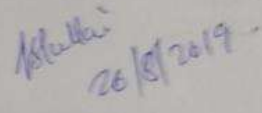
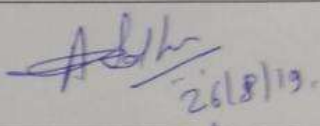
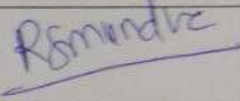
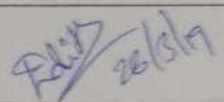
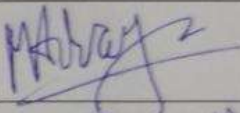
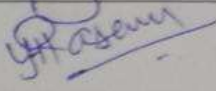
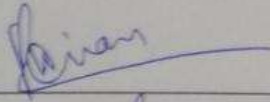
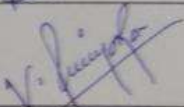
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	<ul style="list-style-type: none">• Software protocols will be included• Ethical Hacking Title to be changed as Cyber security• All the additions and deletions in the papers such as Full Stack Web Development, Machine Learning, Cloud Computing were approved and the changes to be applied in the syllabus.
AGENDA 5	To review Questions Papers of previous exams and comparison with the University Question Papers.
DISCUSSED ABOUT: <ul style="list-style-type: none">• Question paper was verified by the examiners and they commented that the question paper is covering the entire syllabus properly.• Following Blueprint & Rubrics as per the need.	
RESOLVED THAT: <ul style="list-style-type: none">• All the question papers were reviewed and the members commented it was as per the university norms and guidelines.• Question papers followed the Blueprints & Rubrics way.	
AGENDA 6	Any other matter with the permission of the Chairman.
DISCUSSED THAT: <ul style="list-style-type: none">• Introduce case studies in the regular practicals, instead of practical list. 2 to 3 practical can be replaced with the case study so that the Analytical Thinking Capabilities and Problem Solving Abilities will increase.• Practical's to be converted as a project or case studies rather than using traditional list of practical.• Suggestion to have tie-ups with AWS as they are keen to collaborate with educational institutes. They give credits for their courses that will be beneficial for students.• Outcome of the entire course	
RESOLVED THAT: <ul style="list-style-type: none">• 2 to 3 practical to be converted to case study, this can vary as per the paper needs.• Need to mention clear cut programme objectives.	

Since there were no other points to discuss, the meeting was concluded at 02.00 pm with a vote of thanks to the Subject Board.

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The meeting of Subject Board of Computer Science was held on August 20, 2019 for B.Sc. & M.Sc. (Computer Science) Programme. The syllabus was accepted and approved by the Subject Board.

MEMBERS OF SUBJECT BOARD IN COMPUTER SCIENCE	
Ms. Megha Sawant Head Dept. of Comp. Sci. & IT Ramnarain Ruia Autonomous College	 26/8/19
Dr. Kamatchi Iyer, Member, ADHOC, BOS of IT Professor, ISME	 26/08
Dr. R. Srivaramangai, Assist Prof, Member, ADHOC, BOS of IT Head, Department of IT University of Mumbai	 26/8/19
Dr. Vinay Kulkarni, Adjunct Professor Member, ADHOC, BOS of IT Indian Institute of Technology, Bombay	 26/8/2019
Mr. Atul Jadhav, Co- Founder & Director, 9th legend Inc Member, ADHOC, BOS of IT	 26/8/19
Ms. Rasika Mundhe Dept. of Comp. Sci. & IT Ramnarain Ruia Autonomous College	
Ms. Edith Juni Dept. of Comp. Sci. & IT Ramnarain Ruia Autonomous College	 26/8/19
Mr. Abhijit Gole In-charge M.Sc. Comp. Sci. Dept. of Comp. Sci. & IT Ramnarain Ruia Autonomous College	
Mr. Mahavir Advaya Dept. of Comp. Sci. & IT Ramnarain Ruia Autonomous College	
Ms. Pooja Rasam Dept. of Comp. Sci. & IT Ramnarain Ruia Autonomous College	
Ms. Kiran Prajapati Dept. of Comp. Sci. & IT Ramnarain Ruia Autonomous College	
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MEMBERS OF SUBJECT BOARD IN INFORMATION TECHNOLOGY
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Dr. Kamatchi Iyer, Member, ADHOC, BOS of IT Assist Prof, Amity University
Dr. R. Srivaramangai, Assist Prof, Member, ADHOC, BOS of IT Head, Department of IT University of Mumbai
Dr. Vinay Kulkarni, Adjunct Professor Member, ADHOC, BOS of IT Indian Institute of Technology, Bombay
Mr. Atul Jadhav, Co- Founder & Director, 9th legend Inc Member, ADHOC, BOS of IT
Ms. Rasika Mundhe Dept. of Comp. Sci. & IT

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Ms. Edith Juni Dept. of Comp. Sci. & IT Ramnarain Ruia Autonomous College
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MPC Sawant



Ms. Megha Sawant
Head
Dept. of Comp. Sci. & IT
Ramnarain Ruia Autonomous College

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MINUTES OF MEETING	DATE: - 31-03-2020	TIME:- 05:00 to 07:00 PM
MEETING PLACE	Google Meet. Work From Home phase.	
MEETING CALLED BY	Ms. Megha Sawant, HOD & Chairperson	
TYPE OF MEETING	Subject Board Meeting for M.Sc. Information technology Syllabus (2020-21)	
NOTE TAKER	Ms. Edith Juni	
MEMBERS ATTENDED		
<ul style="list-style-type: none">● Ms. Megha Sawant, Chairperson, Ramnarain Ruia Autonomous College● Dr. Kamatchi Iyer, Professor, ISME● Dr. R. Srivaramangai, Assist Prof, University of Mumbai● Dr. Vinay Kulkarni, Adjunct Professor, Indian Institute of Technology, Bombay● Mr. Atul Jadhav, Co- Founder & Director, 9th legend Inc● Mr. Abhijeet Gole, Assist Prof, Ramnarain Ruia Autonomous College● Ms. Rasika Mundhe, Assist Prof, Ramnarain Ruia Autonomous College● Ms. Edith Juni, Assist Prof, Ramnarain Ruia Autonomous College● Mr. Mahavir Advaya, Assist Prof, Ramnarain Ruia Autonomous College● Ms. Pooja Rasam, Assist Prof, Ramnarain Ruia Autonomous College● Ms. Kiran Prajapati, Assist Prof, Ramnarain Ruia Autonomous College● Ms. Priyanka Vaddepalli, Assist Prof, Ramnarain Ruia Autonomous College		
MEETING AGENDA FOR M.Sc IT		
<ol style="list-style-type: none">1. To revise and approve the syllabus of M.Sc. Information Technology.2. To decide any changes in the modalities of assessment, this includes the question paper pattern, for internal and external examinations, projects credits, internship credits & hours.3. To review the feedback of students on curriculum.4. To review Questions Papers of previous exams and comparison with the University Question Papers.5. Any other matter with the permission of the Chairman		
AGENDA 1	To revise and approve the syllabus of M.Sc. Information Technology.	

After a detailed thorough brainstorming discussion following points were approved and sanctioned by the subject board in various semesters:

DISCUSSED THAT:

- The changes that we made was explained.
- Internship for M.Sc discussed.

RESOLVED THAT:DISCUSSED THAT:

- Blockchain
 - Blockchain for dummies book to be added in additional ref
 - 51 node to be added
 - attacks to be added
 - crypto thing has to be added in blockchain, cryptonomics
 - Risk and issues in blockchain can be added.
 - hashing to be added
- Machine Learning
 - Formulate a program in a project kind of work & make them work.
 - Identify a problem where data is available & think about what to be done.
 - Expose them to real life applications
 - Try to identify skill of students by finding the right algorithm.
 - U can give them one common problem & ask them to compare it.
- Data science
 - If needed, a bridge course on statistics technique can be taken to revise the basic concept to begin with data science.
 - Students should have stats background.
 - Pick up one data sets & apply all the things on it as a case study
- Big Data
 - Can we do away with unit II , linear regression etc,
 - Bring up unit 3 & 4 & explore hadoop ecosystems and other platforms
 - How to get data in big data processing & how to get it out.
 - How to connect to a database.
 - Try to do practical in hadoop

RESOLVED:

- **All the additional topics suggested by the BOS members will be added.**
- **Also the reference books suggested will be added in the reference section.**

AGENDA 2

To decide any changes in the modalities of assessment, this includes the question paper pattern, for internal and external examinations, projects credits, internship credits & hours.

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DISCUSSED THAT:

- Modality explained (Internal & external) for theory, practical, project & internship.
- M.Sc. Question paper pattern was discussed and we proposed to reduce the options in each question. 2 out of 3 in each question.
- Internship guidelines and evaluation for M.Sc discussed.

RESOLVED THAT:

Question Paper pattern was approved.

Case studies can be part of Practical.

For internship:

Soft skills training to be given for internship.

- In Internship external evaluation to be added by employer feedback
- External evaluation - 270 Marks 50% by employer & 50% by external to be considered.
- Students need to find Internship by themselves.
- It will be student's responsibility, based on that internal will give marks.

AGENDA 3

To review the feedback of students on curricula.

DISCUSSED THAT:

- Students asked for more weightage to be given to Practicals and more Practical oriented topics to be included.
- Increasing Credits for internships was welcomed. Internship with only one theory paper and more duration is needed. Many of the internships converted to jobs.

RESOLVED THAT:

- Practical oriented approach to be kept in internal evaluations as internal projects.
- Internships credits and duration can be increased and one Paper(course) can be kept in it.
- Internships would start from December to March end. Theory syllabus to be completed in november and on saturdays.

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AGENDA 4	To review Questions Papers of previous exams and comparison with the University Question Papers.
DISCUSSED THAT: <ul style="list-style-type: none">• Checked & reviewed last semester's paper based on modality.• Modality of setting the question paper was discussed. Rubrics & blue print was explained VED THAT: <ul style="list-style-type: none">• All agreed & approved to it.	
AGENDA 5	Any other matter with the permission of the Chairman.
DISCUSSED THAT: <ul style="list-style-type: none">• NIL	

Since there were no other points to discuss, the meeting was concluded at 07.00 pm with a vote of thanks to the Subject Board.

MEMBERS OF SUBJECT BOARD IN Information Technology
Ms. Megha Sawant Head Dept. of Comp. Sci. & IT Ramnarain Ruia Autonomous College
Dr Kamatchi Iyer, Professor, ISME
Dr. R. Srivaramangai, Assist Prof, Member, ADHOC, BOS of IT Head, Department of IT University of Mumbai
Dr. Vinay Kulkarni, Adjunct Professor

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Member, ADHOC, BOS of IT

Indian Institute of Technology,

Bombay

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MPC Sawant



Ms. Megha Sawant

Head

Dept. of Comp. Sci. & IT

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