

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

MINUTES OF MEETING	DATE: - 20-08-2019	TIME:- 11:00 to 02:00 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 B.Sc. & M.Sc. Computer Science 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. Siby Abraham, Assist Prof, Khalsa College ● Dr. Ganesh Magar, Assist Prof, S.N.D.T Women's University ● Dr. Suhasini Vijaykumar, Professor, Bharati Vidyapeeth ● Mr. Jasmin Dawada, Interskil Private Limited ● 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 B.Sc. & M.Sc. COMPUTER SCIENCE		
<ol style="list-style-type: none"> 1. To brief about the past BOS meeting 2. To review the Feedback of students on the Curriculum. 3. To brief the modalities of assessment, this includes the question paper pattern, for internal and external examinations. 4. To approve the syllabus of BSc Computer science without any changes 5. To revise the syllabus in the subject of Computer Science for MSc (Part I & II) classes. 6. To review Questions Papers of previous exams and comparison with the University Question Papers. 7. Any other matter with the permission of the Chairman. 		

RAMNARAIN RUIA AUTONOMOUS COLLEGE
DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

AGENDA 1	To brief about the past BOS meeting
<p>The chairperson brief the BOS members about the last BOS meeting minutes held in March 2019.</p> <p>DISCUSSED ABOUT:</p> <ul style="list-style-type: none"> ● 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 once. <p>RESOLVED THAT:</p> <ul style="list-style-type: none"> ● 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 Curriculam.
<p>The chairperson briefed about the feedback that was taken from students to know there view about the syllabus. 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:</p> <ul style="list-style-type: none"> ● 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. <p>Further discussions were held and the decisions taken are as follows:</p> <p>DISCUSSED ABOUT:</p> <ul style="list-style-type: none"> ● Some practical oriented papers can be included as the part of the syllabus. ● Including some of the latest technologies like Cloud Computing, IoT, Machine Learning, Blockchain etc ● Keeping only Internships in the last semester of M.Sc. Computer Science <p>RESOLVED THAT:</p> <ul style="list-style-type: none"> ● BOS members agreed to keep some practical oriented papers as the part of the syllabus. ● Agreed to include Blockchain, IoT, Machine Learning, Application Development in Cloud. ● Also agreed to keep only Internship in the last semester (IV) of M.Sc. 	
AGENDA 3	To brief the modalities of assessment, this includes the question paper pattern, for internal and external examinations.
<p>DISCUSSED ABOUT:</p> <ul style="list-style-type: none"> ● Modality of assessment for (Internal & External) for theory, practical, project & internship. <p>RESOLVED THAT:</p> <ul style="list-style-type: none"> ● As there was no change in the Modality of Assessment there was no further discussion. 	

RAMNARAIN RUIA AUTONOMOUS COLLEGE
DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

AGENDA 4	To approve the syllabus of BSc Computer science without any changes
<p>DISCUSSED ABOUT:</p> <ul style="list-style-type: none"> The new B.Sc. syllabus was approved in the last meeting (March 2019). <p>RESOLVED THAT:</p> <ul style="list-style-type: none"> As the syllabus was approved in the last meeting (March 2019) itself hence, there was no revision done in the syllabus. Therefore the syllabus would continue for this year also. 	
AGENDA 5	To revise the syllabus in the subject of Computer Science for MSc (Part I & II) classes.
<p>DISCUSSED ABOUT:</p> <ul style="list-style-type: none"> Syllabus to be focusing on all domain like research, job etc. Analytical skills to more focused. Semester I <ul style="list-style-type: none"> Sorting analysis are added in Analysis if algorithm. ADBMS name to changed. It needs base of big data or data analytics. Reference should have more books, and should not stick to only one book. Feasibility of credits. Practical should be given more credits then theory, so u can have 50% -50% or 60%-40%. Including case studies based practicals, instead of having a traditional list of practical. This will enhance the thinking capabilities and problem solving abilities of the students. Replacing traditional practicals by developing a project, the students should be present in the lab & work out on project. At the end during practical exam they should give a presentation on the project. Big data with machine learning is too exhaustive. E-Commerce & Internet Marketing was not appealing to the BOS, so suggested not to include it. ADBMS can be replaced to Data Modelling. Syllabus was designed with more of business perspective rather than that of computer science perspective. AWS is more of practical oriented topic hence should not be the part of theory, can have only Lab sessions on AWS. Big Data Analytics could be expanded for 2 semesters as the field is to vast. Suggested to include one paper specific to machine learning. Cloud computing should have more on theory & practical to be implemented in any software. Separating Machine learning & big data as different paper. Machine learning to be followed by Big data analysis. Extended concepts like Cloud Security can be added in the cloud computing paper. Blockchain to be named as Blockchain Technologies or Blockchain & its Applications. 	

RAMNARAIN RUIA AUTONOMOUS COLLEGE
DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

- Simulation & Modeling to be shifted in semester IV as students will be going for internships it will be easy for them to cope up with only one paper.
- Advanced computer networks or wireless communication to be added.
- Computer vision can be introduced.

RESOLVED THAT:

- **Sorting analysis was approved because it focused more on analysis.**
- Names of the paper to be changed as suggested.
- Addition of Machine Learning as a separate paper.
- Addition of Big data also as a separate paper.
- To add Advanced Computer Networks.
- To add Simulation & Modeling in the last semester (IV)
- Renaming of Blockchain as Blockchain Technologies.
- To think about the implementation of case study based practical instead of having traditional list of practicals.

AGENDA 6	To review Questions Papers of previous exams and comparison with the University Question Papers.
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DISCUSSED ABOUT:

- 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:

- 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 7	Any other matter with the permission of the Chairman.
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DISCUSSED ABOUT:

- Focusing on the skill set of the students, converting traditional practicals to Case Study Based practicals.
- Including Research objective during
- Conducting an entrance exam at the time of admission.
- Efforts to be taken to market the course well.

RESOLVED THAT:

- Implementing the case study based practical instead of traditional practicals using the practical list.
- Including small projects in each semester.

RAMNARAIN RUIA AUTONOMOUS COLLEGE

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

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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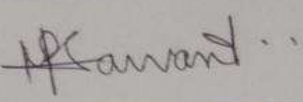
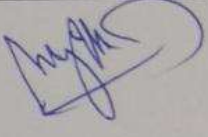
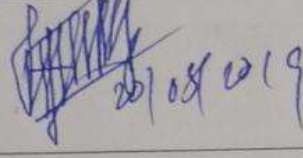
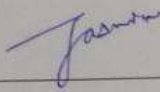
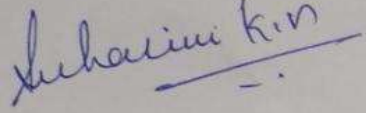
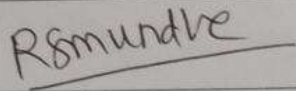
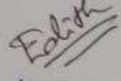


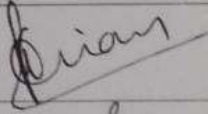
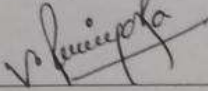
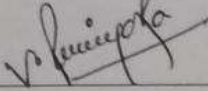
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DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

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	
Dr. Siby Abraham Associate Professor, Member, ADHOC, BOS of Comp. Sci Head, Department of Mathematics G. N. Khalsa College	
Dr. Ganesh Magar Associate Professor, Member, ADHOC, BOS of Comp. Sci Head, Department of Computer Science S.N.D.T Women's University	 20/08/2019
Mr. Jasmin Dawada, Owner, Interskills Private Limited.	
Dr. Suhasini Vijaykumar Professor, Member, ADHOC, BOS of Comp. Sci MCA Bharati Vidyapeeth	
Ms. Rasika Mundhe Dept. of Comp Sci Ramnarain Ruia Autonomous College	
Ms. Edith Juni Dept. of Comp Sci Ramnarain Ruia Autonomous College	
Mr. Abhijit Gole In-charge M.Sc. Comp. Sci. Dept. of Comp. Sci. Ramnarain Ruia Autonomous College	
Mr. Mahavir Advaya Dept. of Comp. Sci. Ramnarain Ruia Autonomous College	
Ms. Pooja Rasam Dept. of Comp Sci Ramnarain Ruia Autonomous College	
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MPSawant



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

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DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY**

MINUTES OF MEETING	DATE: - 30-03-2020	TIME:- 11:00 to 02:00 PM
MEETING PLACE	Google Meet . Work From Home phase.	
MEETING CALLED BY	Ms. Megha Sawant, HOD & Chairperson	
TYPE OF MEETING	Subject Board Meeting for B.Sc. & M.Sc. Computer Science 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. Siby Abraham, Assist Prof, Khalsa College ● Mr. Jasmin Dawada, Interskil Private Limited ● 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 ● Dr Sujata Suvarnapathki, Dean-Academics Affairs, Ramnarain Ruia Autonomous College 		
MEETING AGENDA FOR B.Sc. & M.Sc COMPUTER SCIENCE		
<ol style="list-style-type: none"> 1. To revise and approve the syllabus of B.Sc. and M.Sc. Computer Science 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 identify and approve 2-4 Certificate Courses offered by NPTEL Swayam /MOOC. (Students are to be encouraged to take up these courses) 4. To review the feedback of students on curriculum. 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 revise and approve the syllabus of B.Sc. and M.Sc. Computer Science
B.Sc. COMPUTER SCIENCE SYLLABUS	
DISCUSSED THAT:	
<ul style="list-style-type: none">● Syllabus was all ok and was sanctioned in the last board meeting, therefore we haven't made any changes in the syllabus.	
RESOLVED THAT:	
<ul style="list-style-type: none">● no change in the syllabus was agreed and accepted by the BOS members.	
MSC COMPUTER SCIENCE	
DISCUSSED THAT:	
<ul style="list-style-type: none">● As few papers were already discussed & approved in the last BOS meet, further discussion took place for the remaining papers in this meet.● the changes in the Data Mining & Modeling paper were discussed.● In NLP was asked to check the feasibility & check whether these things can be added as practicals.<ul style="list-style-type: none">○ Article Spinning Introduction and Markov Models○ Trigram Model○ More about Language Models○ Precode Exercises○ Writing an article spinner in Python○ Article Spinner Extension Exercises● SNA, Simulation & Modeling was all ok with the changes.● Blockchain was discussed & all agreed to add this paper.● Cyber & Information Security<ul style="list-style-type: none">○ Server Security:<ul style="list-style-type: none">▪ enforcing strong password policies, and account aging policies▪ SSH Hardening▪ Network Security tactics: port scanning and network service detection▪ firewall configuration▪ file system security and encryption▪ how to protect superuser (root) account○ Network Security:<ul style="list-style-type: none">▪ Network hacking techniques and▪ Vulnerability analysis▪ practicals - Network tools: wireshark, tcpdump, syslog○ IOT Security practicals:<ul style="list-style-type: none">▪ Perform Gateway Penetration Testing on VyOS by hacking the gateway and its services.▪ Implement Wireless Penetration Testing on your Google wireless device.	

- Perform Endpoint Penetration Testing on Client Servers and Machines like Amazon echo, tp -link device and software firewalls like Comodo and private eye.
- Machine learning
 - tensor flow for practs can be used, previously was R
 - deep learning ref book to be added by O'reilly publication.
 - Introduction to ML with python By Andrew Muglar and Sara Geido
 - Practicals on neural network andf back propogation can be added.
 - machine learning using python
 - fundamentals of deep learning practicals on deep learning to be added.
- wireless communication
 - WPA2 Practicals in Wireless Practicals
- Internship
 - In external viva marks can be clubbed & marks can be assigned to quality of internship acquired.

RESOLVED THAT:

- **changes in Data Mining & Modelling was accepted and approved by the BOS members.**
- **NLP feasibility will be checked , if possible then it will be added or given as innovative practical or mini project.**
- **For CIS also feasibility will be checked & added.**
- **ML & wireless suggestion will be added.**

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.
- B.Sc. Question paper pattern was discussed and we proposed to reduce the options in each question. 3 out of 4 in each question.
- 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.
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RESOLVED THAT:

Question Paper pattern was approved.

Case studies can be part of Practical.

For internship:

Soft skills training to be given for internship.

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DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

<ul style="list-style-type: none"> ● 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 identify and approve 2-4 Certificate Courses offered by NPTEL Swayam /MOOC. (Students are to be encouraged to take up these courses)
<p>DISCUSSED THAT:</p> <ul style="list-style-type: none"> ● Three Certificate courses were proposed to be conducted by Department of Three credits and duration 45 hours.Course Fees of 8000/- <ul style="list-style-type: none"> ○ ASP.NET ○ Linux Fundamentals ○ Lamp Stack development ● Content of the courses was discussed. <p>RESOLVED THAT:</p> <ul style="list-style-type: none"> ● All agreed & approved to it. 	
AGENDA 4	To review the feedback of students on curriculum.
<p>DISCUSSED THAT:</p> <ul style="list-style-type: none"> ● 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. <p>RESOLVED THAT:</p> <ul style="list-style-type: none"> ● 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. 	
AGENDA 5	To review Questions Papers of previous exams and comparison with the University Question Papers.

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

DISCUSSED THAT: <ul style="list-style-type: none">• Checked & reviewed last semester paper based on modality.• Modality of setting question paper was discussed. Rubrics & blue print was explained.	
DECIDED THAT: <ul style="list-style-type: none">• All agreed & approved to it.	
AGENDA 6	Any other matter with the permission of the Chairman.
<ul style="list-style-type: none">• NIL	

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 & Academic Dean.

MEMBERS OF SUBJECT BOARD IN COMPUTER SCIENCE
Ms. Megha Sawant Head Dept. of Comp. Sci. & IT Ramnarain Ruia Autonomous College
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<p>Dr. Suhasini Vijaykumar</p> <p>Professor,</p> <p>Member, ADHOC, BOS of Comp. Sci</p> <p>MCA</p> <p>Bharati Vidyapeeth</p>
<p>Ms. Rasika Mundhe</p> <p>Dept. of Comp Sci</p> <p>Ramnarain Ruia Autonomous College</p>
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Ramnarain Ruia Autonomous College

Dr Sujata Suvarnapathki,

Dean-Academics Affairs,

Ramnarain Ruia Autonomous College

MPC Sawant



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