SES's L. S. RAHEJA COLLEGE OF ARTS AND COMMERCE (AUTONOMOUS)

Board of Studies:
Information Technology and Data Science

COMPOSITION OF BOS – (Information Technology and Data Science)

SR.NO.	CAPACITY IN BOS	NAME & AFFILIATION	DESIGNATION
1	Chairperson	Dr. Prajakta Joshi	Asst. Professor
2	Members (Department Members)	Ms. Sayali Parab	Asst. Professor
3	Members (Department Members)	Dr. Seema Ukidve	Asst. Professor
4	Vice Chancellor Nominee	Dr. Hiren Dand	Asst. Professor, Mulund College Of Commerce
5	Expert from outside parent university	Dr. Sushil Kulkarni	Dean, NMIMS
6	Expert from outside parent university	Dr. Ganesh Magar	Profrssor, SNDT
7	Representative from Industry nominated by the Principal	Mr. Anjneya Bondre	Director, CAPGEMINI INDIA
8	College Alumni nominated by the Principal	Firdous Shaikh,	Senior Technical Support Engineer, Salesforce
9	Expert from outside wherever special courses of studies are to be nominated by the Principal	Srivaramangai R.	It Dept., University Of Mumbai
10	Expert from outside wherever special courses of studies are to be nominated by the Principal	Dr. G. B. Hemlatha	Somaiya Vidhyavihar University

Ref No.LSRC/BSCIT/BOS/MEETING2023-24/182   Date: 19/04/2024

BOARD OF STUDIES-DEPARTMET OF B.Sc.(IT) and DATA SCIENCE MEETING

MEETING NOTICE

The BoS member's meeting for the department of B.Sc.(IT) and Data Science has scheduled on **Friday, 26th April, 2024** at **2:30 p.m.** in the College Auditorium. All the members are hereby requested to attend the meeting.

A G E N D A

- To introduce members of the BoS.
- Presentation and discussion on nomenclatures and syllabi of First Year B.Sc.(IT) 2024-25 under NEP 2000.
- To discuss Examination paper pattern.
- To discuss the eligibility norms for admission in the B.Sc.(IT)
- Any other matter with the permission of the chair

Ms. Prajakta Joshi
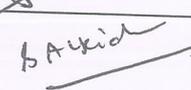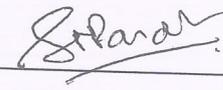Chairperson, BoS B.Sc.(IT) and Data Science

To,

1. Dr. Hiren Dand, Head Department of Information Technology, MCC
2. Dr. Srivaramangai R, Head Department of Information Technology, UDIT
3. Dr. Sushil Kulkarni, Assistant Professor, NMIMS
4. Dr. Ganesh Magar, Assistant Professor, SNDT women's University
5. Dr. G. B. Hemlatha, Assistant Professor, Somaiya Vidhyavihar University
6. Mr. Anjneya Bondre, Industry Expert, Capgemini India
7. Ms. Firdous Shaikh, Industry Expert, UL Solutions
8. Dr. Seema Ukidve, Assistant Professor, LSRC
9. Ms. Sayali Parab, Assistant Professor, LSRC

Date: 26/04/2024

BOS INFORMATION TECHNOLOGY AND DATA SCIENCE
Meeting Attendance

Sr. No	Name	Designation	Signature
1	Ms. Prajakta Joshi	Chairperson	*Prajakta*
2	Dr. Seema Ukidve	Member, LSRC	*SAUkid*
3	Ms. Sayali Parab	Member, LSRC	*SParab*
4	Dr. Hiren Dand	Vice-chancellor nominee	Online
5	Dr. Sushil Kulkarni	Subject experts from outside the parent University	*Au*
6	Dr. Ganesh Magar	Subject experts from outside the parent University	Online
7	Dr. Srivaramangai R	Experts from outside the Autonomous College	Online
8	Dr. G. B. Hemlatha	Experts from outside the Autonomous College	Online
9	Mr. Anjneya Bondre	Industry Expert	Online
10	Ms. Firdous Shaikh	College Alumni	*Firdous*
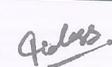
Meeting title	Board of Studies B Sc (IT) and Data Science	
Attended participants	10	
Start time	4/26/24, 2:24:12 PM	
End time	4/26/24, 4:25:58 PM	
Meeting duration	2h 1m 46s	
Average attendance time	1h 28m 22s	

2. Participants		
Name	First Join	In-Meeting Duration
Justin Tuscano	4/26/24, 2:25:37 PM	2h 21s
Sri Varmagai (External)	4/26/24, 2:26:02 PM	1h 59m 13s
Dr.Hema g b (Unverified)	4/26/24, 2:26:02 PM	1h 55m 38s
Dr. Hiren Dand (External)	4/26/24, 2:28:38 PM	20m 21s
Sayali Parab	4/26/24, 2:31:48 PM	1h 53m 31s
Dr. Ganesh Magar	4/26/24, 2:32:08 PM	1h 53m 11s
Anjaneya Bondre	4/26/24, 2:32:35 PM	41m 26s
Mulund College of Commerce Autonomous (External)	4/26/24, 2:57:10 PM	1h 28m 6s
Dr. Sushil Kulkarni	4/26/24, 2:57:10 PM	Attended from L. S. Raheja college
Dr. Seema Ukidve	4/26/24, 2:57:10 PM	Attended from L. S. Raheja college
Mrs. Prajakta Joshi	4/26/24, 2:57:10 PM	Attended from L. S. Raheja college
Ms. Firdous Shaikh	4/26/24, 2:57:10 PM	Attended from L. S. Raheja college

SES's L.S. RAHEJA COLLEGE OF ARTS AND COMMERCE

TITLE: Minutes of Board of Studies Meeting in the department of Information Technology and Data Science
DATE: 26th April, 2024
TIME: 2:30 pm to 4:30 pm
VENUE: Research room
MODE: Hybrid
MEMBERS PRESENT 1) Ms. Prajakta Joshi, Chairperson, BoS IT and Data Science, LSRC 2) Dr. Seema Ukidve, HoD, Member- HoD, Department of Mathematics, Statistics and Computer Applications 3) Ms. Sayali Parab, Member- Assistant Professor, Department of B.Sc(IT) 4) Dr. Hiren Dand, Vice-chancellor nominee – Head Department of Information Technology, MCC 5) Dr. Srivaramangai R, Experts from outside the Autonomous College, nominated by the Principal- Head Department of Information Technology, UDIT 6) Dr. Sushil Kulkarni, Subject experts from outside the parent University nominated by the Academic Council-Assistant Professor, NMIMS 7) Dr. Ganesh Magar, Subject experts from outside the parent University nominated by the Academic Council-Assistant Professor, SNDT women's University 8) Dr. G. B. Hemlatha, Experts from outside the Autonomous College, nominated by the Principal- Assistant Professor, Somaiya Vidhyavihar University 9) Mr. Anjneya Bondre, Representatives from Industry nominated by the Principal, Capgemini India 10) Ms. Firdous Shaikh, College alumni nominated by the Principal, Industry Expert, UL Solutions
AGENDA: 1) To introduce members of the BoS. 2) Presentation and discussion on nomenclatures and syllabi of First Year B.Sc.(IT) 2024-25 under NEP 2000. 3) To discuss Examination paper pattern. 4) To discuss the eligibility norms for admission in the B.Sc.(IT). 5) Any other matter with the permission of the chair.

Meeting addressed by: Ms. Prajakta Joshi (Chairperson of Board of Studies, IT and Data Science)

MINUTES

Item 1:
To formally introduce the Board of Studies Members to each other. Ms. Prajakta Joshi welcomed and introduced all the members.

Item 2:
To discuss, finalize and approve the draft syllabi for the approval of academic council. Syllabi for Semester I and II were presented by Ms. Prajakta Joshi.
BoS members discussed and suggested following changes:

I] Name of the Department:
1. Dr. Srivaramangai mentioned a correction in the Department name. Department name must be Information Technology and Data Science under which Program Name can be B.Sc. (IT) or B.Sc. (Data Science).

I] B.Sc.(IT) SEM I and II MAJOR:
1. Dr. Sushil had an opinion that C and C++ are old programming languages and can be replaced with latest programming language.
2. In the discussion, Ms. Firdous mentioned that C/C++ helps learner to understand basic programming logic, which is useful in advanced programming language.
3. Basic concepts of C is required for hardware development language such as embedded C hence after detail discussion it is been decided to keep C and C++ for the coming academic year and further decision will be taken based on learner's feedback.
4. Dr. Hemlatha suggested to add K-map with 4-5 variables in Digital Electronics and Logic Design syllabi. Suggestions are being incorporated and revised syllabi of this course is being reviewed and approved by the members.

II] B.Sc.(IT) SEM I OEC (DISCREMETE MATHEMATICS COMPULSARY):
1. Dr. Srivaramangai suggested to adjust Discrete Mathematics in other vertical instead of Open Elective.
2. Other members agreed that Discrete Mathematics is an important course for IT learners hence it cannot be kept as an elective.
3. Upon further discussion with the chair, it is been finalised that Discrete Mathematics will be offered as a compulsory course and learner can choose Any One from other OE courses.

III] B.Sc.(IT) SEM I VSC:
1. Dr. Sushil suggested to remove question wise aims from Practical courses and to replace with concepts based practical experiments.

IV] B.Sc.(IT) SEM I and II SEC:
1. Dr. Hemlatha suggested to add spell check, case study to create website in Web Designing with HTML. Suggestions are being incorporated and revised syllabi of these course is being reviewed and approved by the members.
2. Dr. Hiren suggested to remove conditional and looping statements from Web Designing with JavaScript course and to add JQuery.

V] B.Sc.(IT) SEM I VEC (REPLACE DIGITAL ETHICS WITH GREEN IT):

1. Dr. Hiren suggested to remove Digital Ethics course as the basic concepts required to understand this course are not being taught to first year learners.
2. It is been suggested to introduce Green IT for first year and Digital Ethics can be offered in later year.
3. With the permission of chair, it's been finalised to offer Green IT instead of Digital Ethics.

VI] B.Sc.(IT) SEM II AEC (REPLACE MOBILE PROGRAMMING WITH ADVANCED COMMUNICATION):

1. Dr. Srivaramangai and Dr. Ganesh mentioned that language based courses must be offered under AEC, hence to remove Mobile Programming.
2. Upon further discussion with the chair, it is been finalised to offer Advanced Communication instead of Mobile Programming.

VII] B.Sc.(IT) SEM II MINOR:

1. Dr. Srivaramangai mentioned that courses offered under Minor must be in progressive manner, hence to remove Cyber Laws and replace with some other department or other stream courses.
2. Upon further discussion with the chair, it is been decided to keep this course for the coming academic year and further decision will be taken for the next year batch.

VIII] COURSES OFFERED TO OTHER DEPARTMENTS:

1. All members suggested not to offer Introduction to Artificial Intelligence course for first year learners as the concepts are very vast for their intellectual. After discussion with chair, it is been decided to keep this course for the coming academic year and further decision will be taken based on learner's feedback.
2. Dr. Sushil suggested to offer MS-Office in semester I and as per the need Advanced Excel can be offered in semester II and new course is been introduced as Fundamentals of Excel.

Item 3:

1. Examination question paper pattern of 3, 2 and 1 credit courses for Internal assessment and Term-end examination is been reviewed by the members. Dr. Sushil suggested to conduct MCQs test instead of Presentation / Viva-voce for 10 marks Internal assessment.
2. Term-end examination question paper pattern is been appreciated by all the members and approved with no change.

Item 4:

The eligibility norms for admission in the B.Sc.(IT) is been finalised as follows

1. Candidate securing minimum 45% in 12th std. along with Mathematics/Statistics/Mathematics and Statistics subject is eligible.

Ms. Prajakta Joshi
Chairperson (IT & DS)

LIST OF COURSES OFFERED UNDER DEPARTMENT OF INFORMATION TECHNOLOGY AND DATA SCIENCE

Sr. No.	NOMENCLATURE OF THE COURSE	PROGRAMME	SEMESTER	VERTICAL	CREDIT
1	Introduction to Programming with C	B.Sc.(IT)	I	MAJOR	3
2	Digital Electronics & Logic Design	B.Sc.(IT)	I	MAJOR	3
3	Introduction to Programming with C LAB	B.Sc.(IT)	I	VSC	1
4	Digital Electronics & Logic Design LAB	B.Sc.(IT)	I	VSC	1
5	Web Designing with HTML	B.Sc.(IT)	I	SEC	2
6	Advance Presentation Skills	B.Sc.(IT)	I	SEC	2
7	Green IT	B.Sc.(IT)	I	VEC	2
8	Object Oriented Programming with C++	B.Sc.(IT)	II	MAJOR	3
9	Microprocessor & Microcontroller Architecture	B.Sc.(IT)	II	MAJOR	3
10	Cyber Laws	B.Sc.(IT)	II	MINOR	2
11	Object Oriented Programming with C++ LAB	B.Sc.(IT)	II	VSC	1
12	Microprocessor & Microcontroller Architecture LAB	B.Sc.(IT)	II	VSC	1
13	Web Designing with JavaScript	B.Sc.(IT)	II	SEC	2
14	Graphic Designing	B.Sc.(IT)	II	SEC	2
15	Ms-Office	BBI/BMS	I	OE	2
16	Fundamentals of Excel	BAF/BFM	I	SEC	2
17	Advanced Excel	BMS	II	OE	2
18	Introduction to Web Designing	BAMMC/BMS	I / II	SEC / OE	2
19	Introduction to Computer I	BAMMC	I	SEC	2
20	Introduction to Computer II	BAMMC	II	SEC	2
21	Animations and Graphics	BFM/BAF	II	OE	2
22	Introduction to Artificial Intelligence	BBI/BFM	II	OE	2

Final Approval Required: Updated Syllabus for Academic Year 2024-25

9 messages

Prajakta Joshi <prajakta.joshi@lsraheja.org>   Sat, Apr 27, 2024 at 3:55 PM
To: bos.bscitds@lsraheja.org

Dear Members of the Board of Studies in IT and Data Science,
Following our productive meeting on April 26, 2024, we have revised the syllabus for the
upcoming academic year as per the detailed suggestions and discussions held. The integration
of your invaluable inputs has enriched the curriculum, aligning it with the goals of the
National Education Policy (NEP) 2020.

Please review the attached syllabus at your earliest convenience. Upon receiving
your final approvals, we aim to publish the syllabus and implement it for the academic year
2024-25.

We appreciate your continued commitment and expertise which significantly contribute to the
academic excellence of our institution. Thank you for your collaboration and support.
Looking forward to your affirmative response and final approval.

Warm regards,
Mrs. Prajakta Joshi
Chairperson, BoS IT and Data Science

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2 attachments

📄 **MoM_BoS_IT and Data Science_26-04-24.pdf**
394K

📄 **FINAL SYLLABUS DRAFT_BOS_IT_DS.pdf**
923K

Seema Ukidve <seema.ukidve@lsraheja.org>   Sat, Apr 27, 2024 at 4:05 PM
To: Prajakta Joshi <prajakta.joshi@lsraheja.org>
Cc: bos.bscitds@lsraheja.org

Approved
[Quoted text hidden]

Srivaramangai R <rsrimangai@udit.mu.ac.in>   Sat, Apr 27, 2024 at 8:55 PM
To: Prajakta Joshi <prajakta.joshi@lsraheja.org>

Approved
[Quoted text hidden]

Anjaneya Bondre <asbondre@outlook.com>   Sun, Apr 28, 2024 at 10:21 AM
To: Prajakta Joshi <prajakta.joshi@lsraheja.org>

Hello Prajakta,

Good morning! Approved from my side.

Regards,
Anjaneya

Sent from Outlook for iOS

[Quoted text hidden]

Ganesh Magar <drgmmagar@gmail.com>   Sun, Apr 28, 2024 at 11:42 AM
To: Prajakta Joshi <prajakta.joshi@lsraheja.org>
Cc: bos.bscitds@lsraheja.org

Approved from my side.
Thanks and regards,
G. M. Magar
[Quoted text hidden]

G.B LATHA <hemalatha@somaiya.edu>   Sun, Apr 28, 2024 at 12:30 PM
To: Ganesh Magar <drgmmagar@gmail.com>
Cc: Prajakta Joshi <prajakta.joshi@lsraheja.org>, bos.bscitds@lsraheja.org

Approved
[Quoted text hidden]

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Finally, please do not print this email unless it is necessary. Every unprinted email helps the environment.

Firdous Shaikh <firdous.shaikh2106@gmail.com>   Sun, Apr 28, 2024 at 12:33 PM
To: Prajakta Joshi <prajakta.joshi@lsraheja.org>

Approved,

Thanks and Regards,
Firdous Shaikh

On Sat, 27 Apr 2024, 3:56 pm Prajakta Joshi, <prajakta.joshi@lsraheja.org> wrote:
[Quoted text hidden]

Sushil Kulkarni (Dr.) <sushil.kulkarni@nmims.edu>   Sun, Apr 28, 2024 at 1:50 PM
To: "G.B LATHA" <hemalatha@somaiya.edu>, Ganesh Magar <drgmmagar@gmail.com>
Cc: Prajakta Joshi <prajakta.joshi@lsraheja.org>, "bos.bscitds@lsraheja.org" <bos.bscitds@lsraheja.org>

Dear Ms. Joshi,

Syllabi is approved from my side,
Thanks.

Best Wishes,
Kulkarni

Sent from Outlook for iOS

To: Ganesh Magar <drgmmagar@gmail.com>
Cc: Prajakta Joshi <prajakta.joshi@lsraheja.org>; bos.bscitds@lsraheja.org <bos.bscitds@lsraheja.org>
Subject: Re: Final Approval Required: Updated Syllabus for Academic Year 2024-25

[Quoted text hidden]

Dr. Hiren Dand <hiren.dand@mccmulund.ac.in>   Sun, Apr 28, 2024 at 7:40 PM
To: Prajakta Joshi <prajakta.joshi@lsraheja.org>, "bos.bscitds@lsraheja.org" <bos.bscitds@lsraheja.org>

Good Evening!
Syllabus approved from my end.

Thank you.

Dr. Hiren Dand

Get Outlook for Android

From: Prajakta Joshi <prajakta.joshi@lsraheja.org>
Sent: Saturday, April 27, 2024 3:55:54 PM
To: bos.bscitds@lsraheja.org <bos.bscitds@lsraheja.org>
Subject: Final Approval Required: Updated Syllabus for Academic Year 2024-25

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REVISED RUBRICS FOR 3 CREDIT PAPER UNDER IT and DS BOS ALONG WITH RESOLUTION AND LIST OF PAPERS

8 messages

Prajakta Joshi <prajakta.joshi@lsraheja.org>   Mon, Nov 18, 2024 at 2:39 PM
To: bos.bscitds@lsraheja.org

Dear All,

Kindly find the attached revised rubrics for 3 credit papers under IT and DS BOS along with resolution and list of papers for your perusal and approval.

Thanks and regards!
Dr. Prajakta Joshi
Chairman, BOS(IT and DS)

> 📄 **BSCIT_REVISED RUBRICS AND PAPER PATTERN FOR 3 CREDITS.pdf**
> 585K

Sushil Kulkarni (Dr.) <sushil.kulkarni@nmims.edu>   Mon, Nov 18, 2024 at 2:46 PM
To: Prajakta Joshi <prajakta.joshi@lsraheja.org>, "bos.bscitds@lsraheja.org" <bos.bscitds@lsraheja.org>

Dear Dr. Joshi,

Kindly consider the approval for the resolution.

Thanks and Regards,

Dr. Sushil Kulkarni | Professor & Dean

NSoMASA, NMIMS University.

Ground Floor, SBMP Phase – I,

Vile Parle (West), Mumbai – 400 056.

Ph. + 91 22 423355950

www.nmims.edu;

From: Prajakta Joshi <prajakta.joshi@lsraheja.org>
Sent: 18 November 2024 14:40

# SES's L.S. RAHEJA COLLEGE OF ARTS AND COMMERCE
(Autonomous)
Board of Studies – Information Technology & Data Science

RESOLUTION:

1. The Chairman informed the Board that certain courses of the First Year of certain programs (list attached) carry 3 credits. As per University guidelines, the assessment pattern for courses carrying 3 credits must be for 75 marks. However, inadvertently, the assessment pattern approved in the Board earlier was for 100 marks. The Chairman informs the Board that the error is regretted and proposes that the assessment pattern for courses carrying 3 credits be revised for a maximum of 75 marks, instead of 100 marks with retrospective effect. The revised assessment pattern would consist of 30 marks internal assessment and 45 marks external assessment. The rubrics for the assessment have been modified to reflect the change in the assessment pattern.

2. The chairman informed the Board that internal assessment for these courses have been conducted as per the rubrics approved for 100 marks assessment ie. 40 marks. The chairman proposes that the marks obtained by the students for the courses carrying 3 credits be proportionately converted from 40 marks assessment to 30 marks assessment.

3. The courses for the following courses of various Programmes were approved by the Board after deliberation, discussion and after making appropriate changes:

LIST OF PAPERS WITH 3 CREDITS UNDER NEP 24-25 B.Sc.(IT) PROGRAM

PROGRAM	SEMESTER	NAME OF COURSE	BOS
FYBSC.IT	I	INTRODUCTION TO PROGRAMMING WITH C	IT AND DATA SCIENCE
FYBSC.IT	I	DIGITAL ELECTRONICS AND LOGIC DESIGN	IT AND DATA SCIENCE
FYBSC.IT	II	OBJECT ORIENTED PROGRAMMING WITH C++	IT AND DATA SCIENCE
FYBSC.IT	II	MICRO PROCESSOR AND MICRO CONTROLLER ARCHITECTURE	IT AND DATA SCIENCE
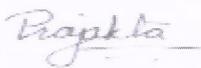
Dr. Prajakta Joshi

Chairperson
Board of Studies (IT & DS)

Bachelor of Science in Information Technology
F.Y.B.Sc.IT

QUESTION PAPER PATTERN
For 3 Credits
Internal Continuous Assessment (ICA) Pattern

Particulars	Marks
Class Test	20
Presentation/Hands-on Practical	10
Total	**30**

Term End Examinations (TEE)

Maximum Marks: 45
Duration: 1 Hour 30 Mins
All questions are compulsory.

Question No.	Description	Total Marks
Q. 1	**Attempt the following Unit I**	15
A	Remembering	
B	Analysing	
C	Applying	
	OR	
P	Remembering	
Q	Analysing	
R	Applying	
Q. 2	**Attempt the following Unit II**	15
A	Understand	
B	Analysing	
C	Evaluating	
	OR	
P	Understand	
Q	Analysing	
R	Evaluating	
Q. 3	**Attempt the following Unit III**	15
A	Understand	
B	Evaluating	
C	Creating	
	OR	
P	Understand	
Q	Evaluating	
R	Creating	