Dr.AMBEDKAR INSTITUTE OF TECHNOLOGY

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

The Enclosed documents are verified and approved

HOD, ISE

Sept. of Information Science & Engs.

3. Ambadkar Institute of Technology

Sangalore-560 055.

DR. AMBEDKAR INSTITUTE OF TECHNOLOGY BANGALORE DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

AGENDA OF MEETING:

18-6-2016

- Approval of Department Vision, Mission, PEOs and POs.
- Scheme and Syllabus framing for academic year 2016-2017.

MINUTES OF BOS MEETING HELD ON 18-6-2016.

- 1. Dr B.S.Shylaja, Prof & HOD, dept of ISE welcomed all BOS members with bouquet.
- Dr B.S.Shylaja, HOD, dept of ISE discussed department Vision, Mission and PEOs with BOS members: The following suggestions were made to reframe Vison and Mission.

Vision: Suggestions for Vision statement:

- Remove (IT) from vision statement
- Use the terms like "competitive professionals/prepare skilled professionals"

Mission:

Dr Komathy suggested following changes:

- The first Mission statement should be in terms of employability like: Prepare students to meet industry demands through best practices.
- To remove the word encourage from second Mission statement, as it is not measurable.

[1st and 2nd Mission need to be reframed for approval.]

Program Educational Objectives [PEOs]:

PEOs need no revision. Hence approved by BOS members.

3. Programme Outcomes [POs]:

The revised POs were presented by Dr Shylaja B.S ,Prof & HOD,ISE. The following suggestions were given by BOS members:

PO11:

- Mr Kavi Arasu suggested to include one unit on financial aspects in Software Engg subject so that PO11 can mapped.
- BOS Members suggested that the term "through team work " need to be removed.

PO12:

Mr Ramanujan suggested to retain only one of the terms either "continuous" or "lifelong" as both mean the same.

Dr Shylaja B S,HOD ,ISE mentioned that the suggestions will be taken into consideration and Vision , Mission, PEOs and POs will be reframed and communicated for approval by BOS members.

4. Time Table

Dr Komathy mentioned that Time Table should indicate: Library hour, Mentoring hour and counselling hour (NBA requirement).

SCHEME AND SYLLABUS FRAMING

SECOND YEAR SCHEME AND SYLLABUS:

III SEMESTER:

- Dr Komathy suggested to rename Logic design as "Digital principles and logic design.
- Mr Kavi Arasu and Harshini M expressed that OOPs with C++ may be replaced by OOPs with Java.
- Dr Shylaja S.S expressed that "Unix shell programming" need not be a subject at all, as the students do all lab programs on unix platform, unix commands may be learnt in the lab directly.
- Suggested to replace Unix shell programming by OOPs with C++.
- Dr Shylaja S.S suggested to introduce 9th subject in III sem to make the credits uniform.
- Harshini M mentioned that Unix shell scripting is required.

IV SEMESTER:

Core Java to be moved to 4th Sem:

- Java Programming and Java programming lab to be introduced in IV semester
- Dr Komathy: Discrete Maths should not be clubbed with any other subject as
 it is a very important research component. Numerical Methods may be made
 an elective.

THIRD YEAR SCHEME AND SYLLABUS:

V SEMESTER:

- IS 52 Core java shall be renamed as Java Programming
- IS53 Advanced internet programming renamed as Web Technologies.
- ISL 58 Advanced internet programming shall be renamed as Web Technologies Lab
- Dr Komathy suggested to combine Data communication and computer networks into a single subject. Computer networks syllabus should not include Mobile Adhoc Networking.
- Dr Komathy suggested to introduce Mobile Computing as Core.
- Dr Basavaraj and Dr Shylaja stressed upon having data communication and computer networks as 2 separate subjects.
- Dr Basavaraju suggested to keep the text book authored by "Fourouzan" as text book for both Data communication (till data link layer) and computer networks(Network layer onwards). Also suggested to revise the syllabus of DC taking the text book authored by Garcia.
- Mr Kavi Arasu suggested to bring in java script library in "Advanced Internet Programming"
- Harshini M expressed that PERL & CGI to be removed and JQuery to be introduced in "Advanced Internet Programming".
- Mr Kavi Arasu suggested to introduce NoSQL and MONGODB in "DBMS"
- Dr B.S shylaja requested Mr Kavi Arasu and Harshini M to assist in framing the syllabus of Java Programming and web technologies as per the industry needs and also to engage the classes for the students, covering the syllabus of one/two units.
- Dr Komathy suggested to frame the syllabus with specialized subjects for group so that the student will have specialization in particular group by the time he/she completes the graduation.

 Dr B S Shylaja mentioned that the idea of specialized group will be put forth in academic council Meeting.

VI Semester:

- Advanced Java shall be renamed as Java Enterprise Programming.
- Dr S.S Shylaja expressed that Unix shell programming and/or lab may be removed in III sem and Suggested to include unix shell scripts in Unix System Programming Lab.
- Development of Mobile application shall be renamed as Mobile Application Development
- Dr Shylaja S.S expressed that Java and Android lab should be 2 separate labs.
- Prof Satish Basapur stated that since both are Java related, the labs may be combined. Dr Basavaraj agreed upon the statement.
- Rename ISL67 as Java Enterprise and Mobile application development lab.
- Dr Komathy suggested "User Interface Design "may be introduced as a general subject instead of introducing single unit specific to Android Interface.

FOURTH YEAR SCHEME AND SYLLABUS

VII SEMESTER

- Dr Basavaraju strongly recommended that Software architecture should be made a core subject for Information Science branch.
- BOS Members expressed that introduction of Python programming in 7th semester is too late .It needs be introduced in lower semesters.
- Dr Nandini stated the Python lab programs will be revised.
- Dr Komathy suggested to rename computer networks lab as "Network Programming lab" as the lab experiments do not include any hardware related experiments
- Dr Shylaja S S Suggested to replace OOPs with C++ by python programming.

- Dr Komathy suggested to introduce "Professional Ethics" as Elective.
- Dr Basavaraju mentioned to follow Choice Based Credit System as per UGC guidelines.

.VIII Semester:

- Dr Shylaja S.S suggested to reduce the number of subjects to one in final year and give more scope for project.
- 5. Dr Shylaja B S, BOS Chairperson concluded the meeting by thanking all the BOS members for their active participation.
- 6. The meeting ended with working Lunch.

Dept of Information Science & Engage Ambedkar Institute of Technology Bangalore-560 056.



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DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

ATTENDANCE LIST OF BOS MEMBERS ACADEMIC YEAR 2016-2017

SL. NO	CATEGORY	NOMINATION OF THE COMMITTEE	SIGNATURE
1	Chairperson	Dr.B.S.Shylaja Professor and Head, Dept of ISE, Dr.AIT, Bangalore	M
2	Members	1. Dr. R.Prabha Assoc. Prof, Dept of ISE Dr.AIT.Bangalore	Proble.
		2. Dr. Nandini Prasad K.S Assoc.Prof, Dept of ISE Dr.AIT, Bangalore	Mc Lungland
		3. Prof.Vijayalaxmi.R.Patil Asst.Prof, Dept of ISE Dr.AIT, Bangalore	Klabil 18/6/20
		4.Prof. S.Pushpalatha Asst.Prof, Dept of ISE Dr.AIT, Bangalore	\$ 18/6/16
		5. Prof.Shilpa Biradar Asst. Prof, Dept of ISE Dr.AIT.Bangalore	Birtaile
		6. Prof.Satish Basapur Asst. Prof, Dept of ISE Dr.AIT.Bangalore	Show in Mouse

Subject Experts from outside the college nominated by Academic council	1 Dr. Guruprasad H.S, HOD, ISE, BMSCE, Bangalore,	ABSENT
	Professor and HOD Dept of CSE, Govt. SKSJ T Institute ,Bangalore	M/w/16.16
70	3. Dr. Shylaja. S. S HOD, Dept. of ISE, PESIT,Bangalore	M.
2	4.Dr Komathy. K Prof & Head, Dept of Information Technology Hindusthan University Chennai, Tamilnadu	m-am
Subject Experts nominated by Vice Chancellor of VTU	Dr. Arun Biradar Prof and HOD, Dept of CSE, EWIT,	ABSENT
Representative from Industry/corporate sector/allied area related to placement nominated	Mr. Kavi Arasu V. Senior Manager, MindTree Consulting Bangalore	VEW 201/16
academic council	2. Mr. Aravind Srinivas Dean iON Academy, TCS Bangalore	For Oldamagusum SRECNIVASA KAMANUJA 18/6/16
	3. Harshini M. UI Lead-IBM Products Bangalore	doulis
Post Graduate meritorious Alumnus nominated by Principal	1. Mr. Ravi Nandan Technova Bangalore	ABSENT
	Subject Experts nominated by Vice Chancellor of VTU Representative from Industry/corporate sector/allied area related to placement nominated academic council Post Graduate meritorious Alumnus nominated by	the college nominated by Academic council HOD , ISE, BMSCE, Bangalore, 2. Dr. Basavaraju T G Professor and HOD Dept of CSE, Govt. SKSJ T Institute ,Bangalore 3. Dr. Shylaja. S. S HOD, Dept. of ISE, PESIT,Bangalore 4.Dr Komathy. K Prof & Head, Dept of Information Technology Hindusthan University Chennai, Tamilnadu Dr. Arun Biradar Prof and HOD, Dept of CSE, EWIT, Representative from Industry/corporate sector/allied area related to placement nominated academic council 1. Mr. Kavi Arasu V. Senior Manager, MindTree Consulting Bangalore 2. Mr. Aravind Srinivas Dean iON Academy , TCS Bangalore 3. Harshini M. UI Lead-IBM Products Bangalore Post Graduate meritorious Alumnus nominated by I. Mr. Ravi Nandan Technova

Chairperson (BOS)

0

Dean (Autonomous)

DR. AMBEDKAR INSTITUTE OF TECHNOLOGY BANGALORE DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

AGENDA OF MEETING:

18-3-2017

- · Approval of Department Vision, Mission, PEOs and POs.
- Framing the Scheme and Syllabus for academic year 2016-2017 (UG and PG).

MINUTES OF BOS MEETING HELD ON 18-6-2016.

- 1. Dr B.S.Shylaja, Prof & HOD, dept of ISE welcomed all BOS members with bouquet.
- 2. Dr B.S.Shylaja, HOD, dept of ISE discussed department Vision, Mission, PSOs and PEOs with BOS members. It was suggested to restrict the no. of PSOs to two in number. Dr. Sanjay suggested introducing PSOs with reference to the newly introduced subjects. The PSOs should address those skills that haven't been addressed assessed for attainment in POs.
- 3. Vision, Mission, Program Educational Objectives [PEOs]: Need no revision and approved by BOS members.

SCHEME AND SYLLABUS FRAMING

- Harshini suggested that three units of JavaScript are not necessary and Harshini and Dr.Prasad suggested to combine Internet Programming and Web Technologies and include Angular JS and JQuery.
- 2. BOS Members were of the opinion that the syllabus has too much of Programming and suggested to reduce it and include more core subjects
- 3. DMS and Graph Theory needs to be separated and introduce subjects like Graph Theory and Linear Algebra.
- 4. IP Lab should be removed. Instead introduce mini project in the third semester.
- 5. Unix and Shell Programming can be made with the lab programs integrated into the practical component of the theory.
- 6. Dr.Anitha suggested that Self study component may be introduced.

- 7. Members were of the opinion to remove python programming or move it as an elective to a higher semester.
- 8. Software Engineering too early to be studied in the Fourth semester and should be moved to higher semesters.
- 9. Dr.Sanjay and Dr.Prasad insisted to have Computer Networks I and Computer Networks II as separated from Information and Network Security.
- 1.0. Mr. Manjunath suggested the introduction of Project Finance and Management.
- 11. Core Java should include JDBC and database connectivity and suggested the removal of Swings and Applets.
- 12. Introduce IOT and Python Programming as an elective.
- 13. Move cloud computing as lab.Introduce OOMD in core subjects
- 14. Harshini M expressed that PERL & CGI to be removed.
- · 15. Mr.Manjunath suggested the introduction of Project Finance and Management.
 - 16. Core Java should include JDBC and database connectivity and suggested the removal, of Mr.Manjunath suggested the introduction of Project Finance and Management.
- 17. Dr B.S shylaja requested Harshini M to assist in framing the syllabus of Java Programming and web technologies as per the industry needs and also to engage the classes for the students ,covering the syllabus of one/two units.
- 18. Dr Shylaja S.S suggested to reduce the number of subjects to one in final year and give more scope for project.
- 19. Do not introduce Software Testing Lab
- 20. Dr Shylaja B S, BOS Chairperson concluded the meeting by thanking all the BOS members for their active participation.
- 21. & The meeting ended with working Lunch.

HOD,ISE

Bangalore-560 059.



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DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

LIST OF BOS MEMBERS

UG/PG BOS MEETING

ACADEMIC YEAR 2017-2018

	Category	Nomination of the committee	Signature
1	Chairperson	Dr.B.S.Shylaja Professor, Head Of Dept ISE, Dr.AIT.Bangalore	Ash
	,	1. Dr.Prabha.R Assoc.Prof Dept Of ISE, Dr.AIT.Bangalore	Prabby.
150	Internal Members	2. Dr.S.Nagalakshmi Assoc.Prof, Dept Of ISE, Dr.AIT.Bangalore	S-Nagalakshi
		3. Dr.Nandini Prasad K.S Assoc.Prof, Dept Of ISE, Dr.AIT.Bangalore	Madun 18/3/17
	* 1	4. Prof. Vijayalaxmi.R. Patil Asst. Prof, Dept Of ISE, Dr. AIT. Bangalore	Klogit ;
	S of the state of	5.Prof. S.Pushpalatha Asst.Prof, Dept Of ISE, Dr.AIT.Bangalore	S
		6. Prof.Satish Basapur Asst.Prof, Dept Of ISE, Dr.AIT.Bangalore	J
æ		7. Prof Jyothi.S Asst.Prof, Dept Of ISE, Dr.AIT.Bangalore	3. Jolli
		8.Prof. Neeta Natesh Asst.Prof, Dept Of ISE, Dr.AIT.Bangalore	Meetha Dontesh



Subject Experts from outside the college nominated by Academic council	1 Dr. Sanjay HOD Dept of ISE NIITE MEENAKSHI, Bangalore sanjay.ha@nmit.ac.in Mob: 9342560303	HM
	Professor &HOD Dept of CSE M.S.Ramaih Institute of Technology Bangalore anithak@msrit.edu Mobile: 9845899681	Three
	Professor and Associate Dean (CS/Telluster) BMSCE, Bangalore, drbgprasad@gmail.com Mob No: 9880064699	10/3/17
	Professor RV College of Engineering Bangalore Mob No: 8497042779 Mail-ID: ashokkumarar@rvce.edu.in	Conc.
Subject Expert nominated by Vice Chancellor of VTU	Prof, & HOD, Dept of ISE SIBIT, Bangalore. Mob: 47390-99709 hsmohan@Sibit, Edu.in.	P CH
Representative from Industry/corporate sector/allied area related	1.Mr.Manjunath Winfoware Technologies, Bangalore. manju@winfoware.com Mob No: 9845091035	(00. B. COS.N
academic council	Manager Infosys Email id: mruthyunjay.bidanur.mutt@infosys.com Mob No: 9916139133	AUSLENT
	UI Lead-IBM Products Email id: harshini.prakash@gmail.com Mob No: 9916736656	danti
Post Graduate meritorious Alumnus nominated by Principal	Sunil .Kumar B Assoc S/W Engineer TCS Email id: sunilkumarsuni1991@gmail.com Mob No: 8147840392	Gunil Lunco: B.K
	Subject Expert nominated by Vice Chancellor of VTU Representative from Industry/corporate sector/allied area related to placement nominated academic council	outside the college nominated by Academic council HOD Dept of ISE NIITE MEENAKSHI, Bangalore sanjay.ha@nmit.ac.in Mob: 9342560303 2. Dr. Anita Kanavalli Professor & HOD Dept of CSE M.S.Ramaih Institute of Technology Bangalore anithak@msrit.edu Mobile: 9845899681 3. Dr. B.G.Prasad, Professor and Assaciate Dean (CSMediuster) BMSCE, Bangalore, drbgprasad@gmail.com Mob No: 9880664699 4. Dr. Ashok Kumar A R. Professor RV College of Engineering Bangalore Mob No: 8497042779 Mail-ID: ashokkumarar@rvce.edu.in Dr. Molaca H.S. Prof. & Hod., Dept of ISE SIBIT Bangalore Mob No: 937390-99709 I.Mr.Manjunath Winfoware Technologies, Bangalore manju@winfoware.com Mob No: 9845091035 2. Mruthyunjay Bidanur Mutt Manager Infosys Email id: mruthyunjay.bidanur.mutt@infosys.com Mob No: 9916139133 3. Harshini M. UI Lead-IBM Products Email id: harshini.prakash@gmail.com Mob No: 9916736656 Post Graduate meritorious Alumnus nominated by Principal Subject Expert nominated academic council

Chairperson (BOS) Chairperson (BOS)

Dean (Autonomous)

DR. AMBEDKAR INSTITUTE OF TECHNOLOGY BANGALORE DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

Date: 26-6-2018

AGENDA OF UG/PG BOS MEETING FOR ACADEMIC YEAR 2018-2019

- UG Scheme and Syllabus framing for academic year 2018-2019 for 200 credits
- UG Scheme framing for academic year 2018-2019 for 175 credits
- PG Scheme and Syllabus framing for academic year 2018-2019 for 100 credits (III & IV Sem-MTech- CNE)
- PG: MTech (Computer Network Engineering) Scheme structure design for academic year 2018-2019 for 88 credits.
- PG: MTech (Cyber security and Internet Security) Scheme design for academic year 2018-2019 for 88 credits.

MINUTES OF BOS MEETING HELD ON 20-6-2018.

Dr B.S.Shylaja, chairperson ,Prof & HOD, dept of ISE welcomed all UG/PG BOS (External and Internal) members. All the members gave their brief introduction and the introduction was followed by the discussion for scheme and syllabus framing.

SCHEME AND SYLLABUS FRAMING -200 Credits (UG)

SECOND YEAR SCHEME AND SYLLABUS((200 Credits)

III and IV SEMESTER

- 1. Dr Komathy suggested to include tutorial to Computer Organisation and Architecture (COA) instead of Data structures using C because there is lab also for the same.
- 2. No major changes were suggested for III and IV sem and expressed the opinion that the changes may be brought in for 175 credit structure.

THIRD YEAR SCHEME AND SYLLABUS (200 Credits):

V and VI SEMESER:

- Dr Anjan K suggested to include MONGO DB as a separate unit in DBMS of V- sem.
- 2. Dr B G Prasad suggested to remove the tutorial for JAVA in V sem.
- 3. Dr Komathy suggested to use the Web tools and the exercises in the lab should be related to theory in VI sem.
- 4. Dr B G Prasad and Mr Sunil Kumar B suggested to include Python programming in place of USP subject and introduce tutorial for python in V sem
- 5. Mr Satish Basapur insisted that knowledge of USP is very much needed for understanding APIs in Cloud computing and Mobile application development courses which are core courses in sixth semester.
- 6. Dr Komathy and Dr Anjan K suggested to highlight about virtualization in Cloud computing lab.

FINAL YEAR SCHEME AND SYLLABUS (200-credits)

VII and VIII Sem

- 1. **Dr.Mohan H. S and all other external members** expressed that BDA theory and Lab syllabus are related and appreciated the introduction of R programming in the BDA lab syllabus of VII Sem.
- Mruthyunjay Mutt Bidanur suggested to replace IoT in VII sem by Software testing in VII Sem
- 3. Mruthyunjay Mutt Bidanur also suggested to introduce software testing Lab in VII Sem

NEW SCHEME AND SYLLABUS FRAMING (175 Credits){2018 -2022}

SECOND YEAR SCHEME AND SYLLABUS((175 - Credits)

III and IV SEMESTER

- 1. Dr Anjan K and Dr B G Prasad suggested to remove few subjects as there are many courses .
- 2. Dr Anjan K and Dr B G Prasad suggested to include OOPS with Java instead of OOPs with C++ in IV th Sem.
- 3. Anjan K and Dr. B G Prasad emphasised to include study of some software tools in Software Engineering course.
- 4. Dr B G Prasad suggested to remove MPMC course and include some portion of MPMC to COA.

THIRD YEAR SCHEME AND SYLLABUS (175 Credits):

V & VI SEMESTER:

- Dr Komathy suggested to offer only one computer network syllabus instead of Data communication and computer Networks and suggested to offer operating system in IV sem in stead of V sem
- 2. Dr Anjan and Dr Komathy suggested to offer Advance Data Structure (ADS) in any of the semesters as a professional elective
- 3. Dr.Mohan H. S and Mr Mruthyunjay Mutt Bidanur suggested to introduce Graphics and image processing as elective in VI sem

FOURTH YEAR SCHEME AND SYLLABUS (175-credits)

VII and VIII SEMESTER

- Dr B G Prasad , Dr Anjan K and and Dr Komathy strongly recommended to assign credits for Project phase I.
- 2. Dr Komaty suggested to include AI as an elective in VII sem and Artificial Neural Network(ANN) in VIII sem
- 3. Dr Anjan & Dr Komathy suggested to offer Advance Data Structure (ADS) in any of the semesters.
- Dr B. G Prasad suggested to combine the course of Software Architecture and Software testing as a single course and frame the syllabus with two units of SA, and 3 units of software testing

- All BOS members suggested to include LABs for program related subjects in the same semster.
- Dr B. G Prasad, Dr Komathy and Dr Anjan strongly recommended to remove few courses from III sem to VI sem, as there are many courses and suggested to include lab and theory together as one course instead of treating as separate courses.

PG SCHEME & SYLLABUS: MTech CNE & MTech CFIS

(Cyber Forensics and Internet Security)

PG CNE Scheme and Syllabus : Academic year 2018-2019 for 100 credits

(III & IV Sem-MTech- CNE)

1. No major changes were suggested for III and IV sem and expressed the opinion that the changes may be brought in for 88 credit structure.

PG: MTech CNE Scheme: Academic year 2018-2019 for 88 credits [2018-2020]

(I-IV Sem-MTech-CNE)

Dr.Komathy, Mr Mruthyunjay Mutt Bidanur, Dr Mohan, Dr B G Prasad suggested to include more labs for PG students.

PG: MTech CFIS Scheme: Academic year 2018-2019 for 88 credits

- 1. Dr.Komathy, Dr Mohan H. S suggested to include Advanced Data structure, Advanced DBMS, Advanced Computer Networks for PG: MTech in Cyber Forensics and Internet Security (CFIS) program as core as the students admitted may be from different UG streams of Engg.such as E&C,TC, CS& IS .
- 2. Dr B. G Prasad insisted more on Integrated courses for PG students.
- 3. Dr.Anjan suggested to include Machine Learning as core.
- 4. Dr.Komathy suggested to make the Risk Assessment and Audits as a core rather than elective.
- 5. Dr B. G .Prasad & Dr.Komathy suggested to include Decision Support System as elective.
- 6. Dr Komathy suggested to include artificial neural networks as elective.
- · Dr Shylaja B.S, BOS Chairperson, Prof & HOD concluded the meeting by thanking all the BOS members for their active participation.
- The meeting concluded with working Lunch.

HOD, ISE

HEAD

Cept. of Information Science & Engg. gt. Ambedkar Institute of Technology Bangalore-550 054.



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Department of Information Science and Engineering <u>List of BOS Members</u>

UG/PG BOS Meeting for Academic Year 2018-2019

Date: 20-06-2018

S.No	Category	Name and Designation	Signature
1	Chair Person	Dr.B.S.Shylaja Prof & Head of Dept ISE, Dr AIT, Bengaluru Mob No: 9538881302 shyla.au@gmail.com	2016/28
2	Internal BOS Member	Dr.Prabha.R Prof, Dept of ISE, Mob No:6362019924 heshakil@yahoo.com	Poolsha.
	Internal BOS Member	Mrs Vijayalaxmi.R.Patil Asst.Prof, Dept of ISE Mob No: 9844267424 vijumalghan@yahoo.co.in	platif
	Internal BOS Member	Mrs S.Pushpalatha Asst.Prof, Dept of ISE Mob No: 9886157588 pushpahemu@gmail.com	S. Puchpolatha
	Internal BOS Member	Mrs Vidyarani H. J Asst.Prof, Dept of ISE Mob No: 8050284845 vidyagau@gmail.com	S. Prehpolatho 20 16/18
	Internal BOS Member	Mrs Shilpa Biradar Asst.Prof, Dept of ISE 7022640685 shilpaiseait@gmail.com	Disard.
	Internal BOS Member	Mr Satish Basapur Asst.Prof, Dept of ISE Mob No: 9886563814 satish.basapur@gmail.com	STOLLY.
	Internal BOS Member	Mrs Neeta Natesh Asst.Prof, Dept of ISE Mob No: 9731218666 neetha.natesh.pes@gmail.com	A
	Internal BOS Member	Mrs Vanishree Abhay Asst.Prof, Dept of ISE Mob No: 9844845787 vanishreeabhay@gmail.com	Vanishru A

3	Subject Experts from outside the college nominated by Academic council	1. Dr. Sanjay HOD Dept of ISE, NITTE MEENAKSHI, Bangalore 9342560303 sanjay.ha@nmit.ac.in	ABSTON T
	Subject Experts from outside the college nominated by Academic council	2. Dr. Anjan.K Associate Professor, Dept of ISE DSU- Bangalore 9731317861 anjan-ise@dayanandasagar.edu	20/6/2018
	Subject Experts from outside the college nominated by Academic council	3. Dr. B.G.Prasad, Professor and Associate Dean (CS/IS Cluster) BMSCE, Bangalore, 9880064699 drbgprasad@gmail.com	20/6/18
	Subject Experts from outside the college nominated by Academic council	4. Dr Komathy. K Director, center for ICT enabled education AMIT Deemed tobeUniversity Chennai, Tamilnadu 94449920481 ithod@ametuniv.ac.in	m-~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
4	Subject Experts nominated by Vice Chancellor of VTU	Dr Mohan H S Professor,&Head, Dept ISE, SJBIT Bangalore 9739099709 hsmohan@sjbit.edu.in	20/6/16.

5	Representative from Industry/corpo rate sector/allied area related to placement nominated academic council	1.Mr.Manjunath Winfoware Technologies,Bangalore 9845091035 manju@winfoware.com	ARS ENT
	Council		,
	Representative from Industry/corpo rate sector/allied area related to placement nominated academic council	2. Mruthyunjay Bidanur Mutt Manager Infosys 9916139133 mruthyunjay.bidanur.mutt@inf osys.com	S.S. 2016/2018
	Representative from Industry/corpo rate sector/allied area related to placement nominated academic council	3 Harshini M. UI Lead-IBM Products 9916736656 harshini.prakash@gmail.com	ARSINT
6	Post Graduate meritorious Alumnus nominated by Principal	1. Sunil .Kumar B Assoc S/W Engineer TCS 8147840392 sunilkumarsuni1991@gmail.com	Gunterlinae Ble



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Department of Information Science and Engineering

UG/PG BOS Meeting held on 1/06/2019

Agenda: To discuss UG & PG scheme and syllabus for the academic year 2019-2020

MINUTES OF MEETING

PG/UG BOS Meeting of Department of ISE - Academic Year 2019-2020

Dr. M.V Vijaya Kumar the chairperson of the BOS committee, welcomed all committee members which included the external and internal BOS members. Dr M V Vijaya Kumar, Prof & HOD, Dept of ISE described the importance of 175 credits structure of UG. Mrs Vijayalaxmi R Patil BOS coordinator(UG) briefed about Vision Mission, PEOs, PSOs and POs of the ISE department.

III-SEM & IV Sem BE (24 + 24 Credits)--- 175 Credits

- 1. Dr D V Ashoka, VTU nominee suggested to shift GT of III sem to 4 th sem.
- 2. Dr Manjaiah suggested to include any IS related subject in place of GT.
- 3. Dr D V Ashoka, VTU nominee suggested to add ARM processors in Microprocessors & Microcontroller in IV th Sem.
- 4. Dr Manjunath T N Suggested to combine Graph theory concepts with Data Structures/DMS.
- 5. Dr D V Ashoka, VTU nominee suggested to divide Computer networks into 2 parts as Datacommunication and Computer networks.
- 6. Mr Murali Manohar Mishra from Mentee institute, IET, Faizabad suggested to make OOPs with C++ / JAVA.
- 7. Industry experts Mr Prasanna and Mr Nithin from TCS iON suggested to make OOPs with C++ as Object Oriented Concepts . Dr D V Ashoka , also expressed his consent
- 8. Dr Manjaiah & Dr D V Ashoka suggested to rename the lab as Object Oriented Programming Lab and allow the students to implement the program in C++/ JAVA

- 9. Dr Manjunath T N suggested Object Oriented Programming can be taught with Java. And also Suggested to include Scripting language at 4th sem such as Python.
- 10. Dr D V Ashoka suggested to use Software Engineering Text book authored by "Pressman" for some required topic as a reference book.
- 11. Mrs Sindhu T suggested to include C and C++ basics in First Year syllabus.
- 12. Prof R C Hansdah suggested to include Abstract Algebra in 3rd sem as a part of Discrete Mathematics instead of Graph theory.
- 13. Mr. Prasanna B S suggested to introduce Advanced Algorithms to improve logical thinking of students.

V-SEM & VI Sem BE (25 + 25 Credits)----200 Credits

- 14. Mr Murali Manohar Mishra & Dr D V Ashoka suggested to include Theory of computation and Complier Design in different semesters.
- 15. Dr Manjaiah suggested that content of syllabus should be uniform and suggested to refer latest books related to contents and suggested to use open source software tools for computer networks and specialized subjects.
- 16. Mr Prasanna, Industry expert, suggested not to overlap the subject content of related subjects like IoT, Cloud Computing, data communication, Web Technologies which are studied in different semesters.
- 17. Mrs Sindhu T suggested to make Artificial Intelligence, Machine Learning and cloud Computing as core subjects in 3rd year.
- 18. Mr Nithin G suggested to use google Cloud for Cloud Computing Lab and also suggested to give more importance for practical environment.

VII-SEM & VIII Sem BE (22 + 28 Credits)----200 Credits

- Dr Manjaiah suggested to rename Java Programming IDE as Java Technologies in 8th sem.
- 20. Mrs Sindhu T suggested to encourage the final year students of both UG and PG to do project work on Data analytics, Machine Learning and Web Applications

Dr. Ambedkar Institute of Technology
Bangalore-560 068.

PG- COMPUTWER NETWORKENGINEERING (88- Credits)

- Mr Nithin G suggested to use google Cloud for Cloud Computing Lab and also suggested to use PyCharm & Anaconda environment.
- Dr Manjaiah suggested to use Microsoft Azure account.
- 3. Mr Prasanna & Mr Nithin , the industry experts suggested to include software defined environment in SOA.
- Mr Nithin G suggested to emphasise the same domain for internship and project work for PG students
- Mr Nithin G suggested to sign MOUs with industries which helps students to earry out the projects

PG- CYBER FORENSICS AND INFORMATION SECURITY ((88- Credits)

- 1. Dr Ashok DV suggested to add more concepts w.r.t. security.
- Dr Ashok DV suggested to add subjects like embedded systems, supply chain management, Bloch chain Technology & Storage area networks for CFIS syllabus.
- 3. Dr Manjaiah suggested to use popen source tools for ethical hacking .
- 4. Dr Manjaiah suggested to include security aspects w.r.t SAN .
- Prof R C Hansdah stated that Advance Networking Lab should include containers and Dockers to experiment with networking.
- Prof R C Hansdah suggested to refer recent O'ralley publication for secured Programming.
- Mr Nithin G suggested to emphasise the same domain for internship and project work for PG students.
- Mr Nithin G suggested to make sure that PG is more research oriented and introduce industry oriented lab.

The BOS chairman Dr M V Vijaya Kumar concluded the BOS meeting and thanked all the BOS members for their active participation. The meeting ended with working lunch.

Oept of InforHOD, ISE and & Engs or, Ambediar Institute of Technology Bangulura-500 058.

3



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Department of Information Science and Engineering List of BOS Members UG/PG BOS Meeting for Academic Year 2019-2020 Date: 1-06-2020

S.No	Category	Name and Designation	Signature
I	Chair Person	Dr M V VijayaKumar Prof & HOD,Dept of ISE	4 el
II 1	Internal BOS Member	Dr AIT, Banguru Dr.B.S.Shylaja Prof & Head of Dept ISE, Dr AIT, Bengaluru Mob No: 9538881302 shyla.au@gmail.com	Ser lolis.
2	Internal BOS Member	Dr.Prabha.R Prof, Dept of ISE, Mob No:6362019924 heshakil@yahoo.com	books . 16/19.
3	Internal BOS Member	Dr.Nandini Prasad K.S Prof, Dept of ISE Mob No: 9731397880 nandiniprasad.ks@dr-ait.org	Mandry
4	Internal BOS Member	Mrs Vijayalaxmi.R.Patil Asst.Prof, Dept of ISE Mob No: 9844267424 vijumalghan@yahoo.co.in	Wholing 19.
5	Internal BOS Member	Mrs S.Pushpalatha Asst.Prof, Dept of ISE Mob No: 9886157588 pushpahemu@gmail.com	S. Pushpalatho
6	Internal BOS Member	Mrs Vidyarani H. J Asst.Prof, Dept of ISE Mob No: 8050284845 vidyagau@gmail.com	violegay Ovi
7	Internal BOS Member	Mr Satish Basapur Asst.Prof, Dept of ISE Mob No: 9886563814 satish.basapur@gmail.com	B-116/19
8	Internal BOS Member	Mrs Neetha Natesh Asst.Prof, Dept of ISE Mob No: 9731218666 neetha.natesh.pes@gmail.com	A

11.11	Subject	1.75	
	Experts from outside the college nominated by Academic council	1. Dr. Sanjay HOD Dept of ISE, NITTE MEENAKSHI, Bangalore 9342560303 sanjay.ha@nmit.ac.in	ABSENT
2	Subject Experts from outside the college nominated by Academic council	Dr. Manjaiah D. H Professor & Chairman Dept of CSE Mangalore University Mangalore: E mail id :manju@mangaloreuniversity.ac. in_Mobile: 9449444638	0100 2019
3	Subject Experts from outside the college nominated by Academic council	Dr R. C.Hansdah Posfessor Associate Prof Dept of Computer Science and Automation, IISc, Bangalore Email id: hansadah@iisc.ac.in Mob No: 9449838442	R.C. Hansdell 01/06/2019
4	Subject Experts from outside the college nominated by Academic council	. Dr Manjunath T N Professor & Dean (External relations)BMSIT,Bangalore	April 1/6/19
IV.1	Subject Experts nominated by Vice Chancellor of	JSSATE ,Bangalore	A 16/19.
V	7.1 Representati from Industry/cor rate sector/allied area related placement nominated academic council	po Vice President & Managin Director Micro Focus, Bangalor	ABSENT

2	Representative from	Mr Prasanna B S	
	Industry/corpo	Software Architect	ا ا
1	sector/allied area related to	Synamedia, Bangalore	Jan
	placement	Emailid:	
	nominated academic	pbalgar@synamedia.com	
	council	Mob No :9845363469	
3	Representative from	Mr Nithin	
	Industry/corpo rate	CEO ,TCS iON,	la re
	sector/allied	Bangalore	().
	area related to placement	Email id: nithin@i2r.co.in	U
	nominated academic council	Mob No: 9900785995	
VI.1	Post Graduate	Mrs Sindu T	
	meritorious Alumnus	Senior Software Developer	
	nominated by	Nokia, Bangalore	
	Principal	Emailid:	· 1.
		sindhuchalam@gmail.com	Q. allu
		Sindhu.1.t@nokia.com	Sirollu- P.
VII.1		Mob No : 9738523343	1
	BoS Member	Murali Manohar	1.
	from Mentee		
	Institute:	Asst Professor, Dept of IT, IET, Ayodhya, UP	Lumb.
	IET, Ayodhya,UP		

Department of Information Science and Engineering

Board of Studies (BOS) Online Meeting held on 14-8-2020 from 10:30 AM to 12:30 PM for (Academic Year 2020-2021.)

Agenda for the meeting:

- Vision, Mission, PEOs, PSOs, POs
- Discussion & Review of Scheme & Syllabus UG for academic year 2020-2021
- Discussion & Review of Scheme & Syllabus PG for academic year 2020-2021

3OS Members who attended Meeting:

SL. No	Category	Name & Designation	Attended
1.	Chairperson	Dr M.V. Vijayakumar Professor and HOD, Dept of ISE, Dr AIT, Bengaluru Dr.vijay.research@gmail.com Mob No:9731443839	Yes
2	External BOS Member (Subject Experts)	1.Dr. Sanjay , HOD Dept of ISE, NIITE Meenakshi ,Bangalore sanjay.ha@nmit.ac.in, Mob: 9342560303	Yes
3	_	2. Dr. Manjaiah D. H, Professor & Chairman, Dept of CSE Mangalore University Mangalore manju@mangaloreuniversity.ac.in Mobile: 9449444638	Yes
4		3. Dr R. C.Hansdah Prof, Dept of Computer Science and Automation, IISc, Bengaluru hansadah@iisc.ac.in Mob No:9449838442	Yes
5		4. Dr Manjunath TN, Professor & Dean (External relations), BMSIT, Bangalore, manju.tn@bmsit.in Mob No:8497042779	Yes
6	Subject Expert nominated by Vice	Dr Ashoka D V, Professor, Dept CSE/ ISE, JSSATE, Bangalore ashok d v@rediffmail.com	Yes

	Chancellor of VTU	Mob No: 9739760069, 9448851159	
,			,
	Representative from Industry/corporate sector	1.Mr Sreehari, Vice President & Managing Director Micro Focus, Bangalore sreehari@microfocus.com Mob Nov 0845161447	No
8		Mob No: 9845161447	
		2.Mr Prasanna B S, Software Architect, Synamedia, Bangalore Email id: <u>pbalgar@synamedia.com</u> , Mob No: 9845363469	Yes
9			
		3.Mr Nithin ,CEO ,TCS iON, Bangalore Email id: <u>nithin@i2r.co.in</u> Mob No: 9900785995	No
10	Post Graduate meritorious Alumnus nominated by Principal	1.Mrs Sindu T,Senior Software Developer ,Nokia , Bangalore sindhuchalam@gmail.com Sindhu.1.t@nokia.com Mob No: 9738523343	Yes
11	BOS Member from Mentee Institute:IET, Ayodhya,UP	Mr. Murali Manohar Sharma, Asst Prof, Dept of IT, IET, Ayodhya, UP EmailId: sharmamurli004@gmail.com _Mob No: 7727891455	Yes
12	Internal BOS Members	1.Dr Shylaja B S, Professor, Dept of ISE, Dr AIT, Bengaluru shyla.au@gmail.com Mob No: 9538881302	Yes
13		2. Dr Nandini Prasad K.S, Professor, Dept of ISE, Dr AIT, Bengaluru nandiniprasad.ks@dr-ait.org Mob No:9731397880	Yes
14		3. Mrs Vijayalaxmi R Patil ,Asst Professor, Dept of ISE, Dr AIT, Bengaluru vijumalghan@yahoo.co.in Mob No: 9844267424	Yes
5		4. Mrs Pushpalatha S, Asst Professor, Dept of ISE, Dr AIT, Bengaluru pushpahemu@gmail.com Mob No: 9886157588	Yes
6		5. Mrs Vidyarani H J, Asst Professor, Dept of ISE, Dr AIT, Bengaluru vidyagau@gmail.com Mob No: 8050284845	Yes

17	6. Dr Shilpa Biradar ,Assistant Professor, ,Dept of ISE, Dr AIT, Bengaluru shilpaiseait@gmail.com Mob No: 7022640685	Yes
18	7. Mr. Satish Basapur ,Assistant Professor Dept of ISE, Dr AIT, Bengaluru satish.basapur@gmail.com Mob No:9886563814	Yes
19	8. Mrs Neetha Natesh ,Assistant Professor Dept of ISE, Dr AIT, Bengaluru neetha.natesh.pes@gmail.com Mob No: 9731218666	Yes

Minutes of Meeting of Online BOS Meeting held on 14/8/2020 FROM 10.30 AM -12.30 PM

Dr. M.V Vijayakumar, Professor and HOD, ISE, Chairperson of Board of Studies (BOS) welcomed all the BOS members and faculty of ISE dept for the online meeting.

Mrs Vijayalaxmi R Patil , Asst Prof , BOS coordinator presented the syllabus which was discussed and reviewed in Department Advisory Board(DAB) meeting . The presentation began with a welcome to BOS members. Vision , Mission , PEOs, PSOs and POs of ISE department were presented .The scheme and syllabus of UG program for academic year 2020 - 2021 was presented and the changes made in the syllabus were highlighted. Mrs Neetha Natesh , BOS coordinator presented the PG syllabus (CNE & CFIS) and highlighted the changes made in syllabus.

- Dr Sanjay suggested that syllabus of Discrete Maths & Numerical Methods is too vast and need to be taught as separate subjects and syllabus content must must be reduced.
- Dr Manjunath T N & Mr. Murali Manohar Sharma appreciated inclusion of AVL trees ,Red Black trees introduced in uint 4 of Data Structures with C. Dr R. C. Hansdah mentioned that Red Black trees are used in Linux & need to be dealt in detail.
- Dr. Manjunath T N & Dr Sanjay mentioned that COs, CO- PO Mapping of entire syllabus need be reviewed and program attainment to be verified.
- Dr Sanjay & Mr Muruli Sharma suggested not to combine Automata Theory and Compiler Design as both are heavy weight subjects.

- Mrs Sindhu T gave a suggestion to shift Web Technologies ,comparatively lighter subject to 4th Sem.
- Dr. Majnunath T N & Mr Muruli Sharma suggested to push Artificial Intelligence to 6th Sem, Web wtechnologies to 4th sem and Computer Networks to 6th sem.
- Dr R.C.Hansdah & Dr. Manjaiah D. H expressed that hardware exposure to 64bit architecture is required. Even though 4th sem has Microcontroller& Embedded Systems, Operating System syllabus does not contain 64bit architecture.
- Dr R. C.Hansdah also expressed that order of subjects required to be as- Microcontroller
 & Embedded Systems, Operating Systems, Computer Networks. Mentioned that knowledge of Internet not reflected in detail in syllabus
- Dr R. C.Hansdah suggested to remove classical encryption and to include number theory
 & ECC in public key cryptography in Network and Cyber Security.
- Dr. Sanjay H A mentioned that MOOC Elective is not included (AICTE 15 credits for Electives to be incorporated)
- Dr. Manjunath T N mentioned about the accommodation of BE Honors program
- Dr. Sanjay suggested to have bridge course to make students understand fundamentals of Computer networks in 1st Sem PG CNE so that students from electrical stream will not find difficulty in understanding Advanced computer networks.

Dr. M.V Vijayakumar, Prof & HOD, BOS chairperson concluded the meeting with vote of thanks. HOD thanked all the BOS members for their active participation and valuable suggestions.

Dr. M. Wijaya Kumar

Professor & HOD, Department of ISE

Dr. Ambedkar Institute of Technology
Bengaluru - 560 056. Karnataka, Isaa

DNLINE MEETING INFORMATION

Dr.AIT Department of ISE BOS Meeting Aug-2020

Fri Aug 14, 2020 10:30am - 1:30pm India Standard Time - Kolkata

Dr. Ambedkar Institute Of Technology, BDA, Outer Ring Rd, Near, Gnana Bharathi,

Bengaluru, Karnataka 560056, India (map)

laming info Join with Google Meet

Where

meet.google.com/xvm-bfye-qvf

Dr. M. HOD, ISE Ph.D (London)

Professor & HOD, Department of ISE

Ambedkar Institute of Technology

Bengaluru - 560 056. Karnataka, India

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DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

LIST OF EXTERNAL AND INTERNAL BOS MEMBERS ACADEMIC YEAR 2020- 2021

Date:14/8/2020

Category	Name and Designation and Address WOR Dept of ISE, Dr AIT, Bengaluru
Chairman	Dr. M.V Vijaya Kumar, Prof and HOD, Dept of ISE, Dr AIT, Bengaluru Dr.vijay.research@gmail.comMob No:9731443839
Subject Experts from outside the college nominated	1.Dr. Sanjay, HOD Dept of ISE, NIITE Meenakshi, Bangalore Email id: sanjay.ha@nmit.ac.in , Mob: 9342560303
by Academic council	2. Dr. Manjaiah D. H, Professor & Chairman, Dept of CSE Mangalore University Mangalore E mail id: manju@mangaloreuniversity.ac.in , Mobile: 9449444638
	3. Dr R. C.Hansdah Prof, Dept of Computer Science and Automation,
	Email id: hansadah@iisc.ac.in Mob No:9449838442 4. DrManjunath TN, Professor & Dean (External relations),BMSIT, Bangalore, EMail-ID: manju.tn@bmsit.in Mob No:8497042779
Subject Experts nominated by Vice	DrAshoka D V, Professor, Dept CSE/ISE, JSSATE, JSSATE, DrAshoka D V, Professor, Dept CSE/ISE, JSSATE,
Chancellor of VIU	Vice President & Managing Director Micro Focus, Bangarer
Representative from Industry/corporate	ionigrafocus comMob No. 9643161
sector	EMail Id:srechari@microroccare 2.Mr Prasanna B S, Software Architect, Synamedia, Bangalore Email id: pbalgar@synamedia.com, Mob No :9845363469, Email id: pbalgar@synamedia.com
1.	3.Mr Nithin, CEO, TCS iON, Bangaiore
Post Graduate	Email id: nithin@illr.co.imvide 1.Mrs SinduT,Senior Software Developer ,Nokia , Bangalore ,

Alumnus nominated	Email id: sindhuchalam@gmail.comSindhu,1.t@nokia.com
by Principal	Mob No : 9738523343
BoS Member from Mentee Institute: IET, Ayodhya, UP	Mr. Murali Manohar Sharma, Asst Prof, Dept of IT, IET, Ayodhya, UP EmailId: sharmamurli004@gmail.com Mob No: 7727891455 EmailId: sharmamurli004@gmail.com Mob No: 7727891455
Internal BOS Members	 Dr.B.S.Shylaja, Prof, Dept of ISE, Dr AIT, Bengaluru shyla.au@gmail.com Mob No: 9538881302 Dr.Nandini Prasad K.S., Prof, Dept of ISE, Dr AIT, Bengaluru nandiniprasad.ks@dr-ait.org Mob No:9731397880 MrsVijayalaxmi.R.Patil, Asst Prof, Dept of ISE, Dr AIT, Bengaluru vijumalghan@yahoo.co.in Mob No: 9844267424 MrsS.Pushpalatha, Asst Prof, Dept of ISE, Dr AIT, Bengaluru pushpahemu@gmail.com Mob No: 9886157588 Mrs.Vidyarani H. J, Asst Prof, Dept of ISE, Dr AIT, Bengaluru vidyagau@gmail.com Mob No: 8050284845 Dr.ShilpaBiradar, Asst Prof, dept of ISE, Dr AIT, Bengaluru shilpaiseait@gmail.com Mob No: 7022640685 Mr Satish Basapur, Asst Prof, Dept of ISE, Dr AIT, Bengaluru satish.basapur@gmail.com Mob No:9886563814 MrsNeethaNatesh, Asst Prof, Dept of ISE, Dr AIT, Bengaluru neetha.natesh.pes@gmail.com Mob No: 9731218666

HOD,ISE

or, Ambedkar Institute of Technologistangalore-560 066.



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Department of Information Science and Engineering

UG/PG Board of Studies (BOS) Online Meeting held on 17-6-2021 from 11:00 AM to 1:00 PM for (Academic Year 2021-2022)

Agenda for the meeting:

- Vision, Mission, PEOs, PSOs, POs
- Discussion & Review of Scheme & Syllabus UG for academic year 2021-2022
- Discussion & Review of Scheme & Syllabus PG for academic year 2021-2022.
- Discussion & Review of Scheme & Syllabus of BE honors in Artificial Intelligence.

Members who attended Meeting:

SL. No	Category	Name& Designation	Attended
1.	Chairperson	Dr M.V .Vijayakumar Professor and HOD, Dept of ISE, Dr AIT, Bengaluru mvvijay.is@drait.edu.in Mob No:9731443839	Yes
2	External BOS Member (Subject Experts)	1.Dr. Sanjay, HOD Dept of ISE, NIITE Meenakshi, Bangalore sanjay.ha@nmit.ac.in, Mob: 9342560303	Yes
3		2. Dr. Manjaiah D. H, Professor & Chairman, Dept of CSE Mangalore University Mangalore manju@mangaloreuniversity.ac.in Mobile: 9449444638	Yes
4		3. Dr R. C.Hansdah Prof, Dept of Computer Science and Automation, IISc, Bengaluru hansadah@iisc.ac.in Mob No:9449838442	No
5		4. Dr Manjunath TN, Professor & Dean (External relations), BMSIT, Bangalore, manju.tn@bmsit.in Mob No:8497042779	No

			19
		Dr Ashoka D V, Professor, Dept CSE/ ISE,	Yes
5	Subject Expert	I ICCATE Rangalore	
	nominated by Vice	1 1 1 regrediffmall.com	1 2 1
	Chancellor of VTU	Mah No: 9739760069, 9446631137	
		1 Mr Sreehari Vice President & Managing	Yes
	8		
	D tations from	Director Micro Focus, Bangarore sreehari@microfocus.com Mob No: 9845161447	1
	Representative from	Sreenan (C) Mobile of	Yes
3	Industry/corporate	2.Mr Prasanna B S, Software Architect,	103
	sector '	Synamedia, Bangalore	1
		pbalgar@synamedia.com, Mob No: 9845363469	No
)		3.Mr Nithin ,CEO ,TCS iON, Bangalore	110
	2.	Email id: nithin@i2r.co.in Mob No: 9900785995	No
0	Post Graduate	Davidoner	110
	meritorious Alumnus	1.Mrs SinduT, Senior Software Developer,	2.0
	nominated by	Nokia, Bangalore	
	Principal	Sindhu.1.t@nokia.com	
	Fillicipai	Mob No : 9738523343	***
1	BOS Member from	Mr. Murali Manohar Sharma, Asst Prof,	Yes
-	Mentee Institute:IET,	Dept of IT, IET, Ayodhya, UP Emailld:	(2) X (4 (4) (2)
	Ayodhya,UP	sharmamurli004@gmail.com	
	Ayounya, Or	Mob No: 7727891455	***
12	is .	1.Dr Shylaja B S, Professor,	Yes
3.77	E at 10	Dept of ISE, Dr AIT, Bengaluru	
		shylajabs.is@drait.edu.in_Mob No: 9538881302	
13		2. Dr Nandini Prasad K.S, Professor,	Yes
13	100	Dept of ISE, Dr AIT, Bengaluru	
		nandini.is@drait.edu.in Mob No:9731397880	
	2 9.		17.2
4		3. Mrs Vijayalaxmi R Patil ,Asst Professor,	Yes
		Dept of ISE, Dr AIT, Bengaluru	
	Internal BOS	vijayalaxmirp.is@drait.edu.in Mob No : 9844267424	
15	Members	4. Mrs Pushpalatha S, Asst Professor,	Yes
J	*	Dept of ISE, Dr AIT, Bengaluru	
	2× 1	pushpalatha.is@drait.edu.in_Mob No: 9886157588	300
_		5. Mrs. Vidyarani H J, Asst Professor,	Yes
16	*	Dept of ISE, Dr AIT, Bengaluru	
		vidyarani.is@drait.edu.in Mob No: 8050284845	
		viuyaranii.is@uraii.edu.iii 19100 190, 8030284843	1)
17		6. Dr ShilpaBiradar ,Assistant Professor,	Yes
. /		Dept of ISE, Dr AIT, Bengaluru	
		shilpab.is@drait.edu.in_Mob No: 7022640685	
	1	STATE OF THE PARTY	

19	Internal BOS Members	7. Mr. Satish Basapur ,Assistant Professor Dept of ISE, Dr AIT, Bengaluru satish basapur is@drait.edu.in Mob No:9886563814	Yes
		o. Wirs NeethaNatesh Assistant Professor	Yes
	TR C	Dept of ISE, Dr AIT, Bengaluru	
20	7. X	neetha.is@drait.edu.in_Mob No : 9731218666	
20	Faculty members	1. Dr Chandrakant G Pujari, Professor	Yes
		Dept of ISE, Dr AIT, Bengaluru	
		lavbangalore6@gmail.com Mob No:9845380013	
	20 F	2. Mrs Vanishree Abhay Assistant Professor	Yes
		Dept of ISE, Dr AIT, Bengaluru vanishree.is@drait.edu.in Mob No:9844845787	
		3. Mrs Jyothi. S, Assistant Professor	Yes
	* * * * * * * * * * * * * * * * * * * *	Dept of ISE, Dr AIT, Bengaluru <u>iyothi.is@drait.edu</u> Mob No:90085 33887	
		4. Mrs Malathi P, Assistant Professor	Yes
	- 9	Dept of ISE, Dr AIT, Bengaluru Malathip.is@drait.edu.in Mob No:7760880325	

Minutes of Meeting of Online BOS Meeting held on 17/6/2021 FROM 11:00am -1:00 pm

Dr. M.V Vijayakumar, Professor and HOD, ISE, Chairperson of Board of Studies (BOS) welcomed all the BOS members and faculty of ISE department for the online meeting.

Mrs Vijayalaxmi R Patil , Asst Prof , BOS coordinator presented the syllabus which was discussed and reviewed in Preliminary BOS meeting . The presentation began with a welcome to BOS members. Vision , Mission , PEOs, PSOs and POs of ISE department were presented . The scheme and syllabus of UG program for academic year 2021 -2022 was presented and the changes made in the syllabus were highlighted . Mrs Neetha Natesh , BOS coordinator presented the PG syllabus (CNE & CFIS) and highlighted the changes made in syllabus. The scheme and syllabus of BE Honors in Artificial Intelligence was also presented.

- Mr Prasana appreciated Ajile, XP and Scrum portion in the Software Engineering syllabus.
- Mr Sreehari suggested to teach the APIs in Artificial Intelligence rather than teaching too much of Mathematics in AI.

- Mr Sreehari suggested to emphasize the importance of java scripts in Web Technology.
 Also suggested to include Angular JS and React JS in Web Technology syllabus.
- Dr Manjaiah D. H mentioned to include the comparison of different scripting languages such as Java script, CGI Perl. Mr Satish Basapur mentioned that the Perl is being taught in 3rd sem Unix and Shell Programming.
- Dr Nandini Prasad K S explained the changes made in the Machine Learning syllabus of 6th sem and the changes were approved.
- Dr Sanjay and Mr Sreehari suggested to include Dockers and Containers in Cloud Computing Syllabus of 6th sem.
- Mrs Jyothi.S explained the changes made in the 4th unit of Cloud Computing syllabus and Cloud Computing Lab syllabus of 6th sem and changes were approved.
- Mr Sreehari appreciated for including performance based program in Software Testing Lab of 7th sem and also RAID in Operating System of 5th sem. He suggested to include Security related subjects like Data security in UG syllabus.
- Dr Ashoka D V suggested to maintain proper flow of the content in the syllabus and also to maintain proper flow of subjects in curriculum as a whole.
- Dr. Manjaiah D. H suggested to include complete information about the Text Books prescribed in the syllabus (Authors, Publisher, Edition Year of publication etc).
- Mr. Murali Manohar Sharma suggested to include buffer flow concept in Secured Programming syllabus of Mtech (CFIS) 2 nd Semester.
- Dr. Manjaiah D. H suggested to verify the program outcomes and learning outcomes of B. E Honors program for which Dr Shylaja B S mentioned that Program outcomes & PSOs would be defined for the Honors program.

Dr. M.V Vijayakumar, Prof &HOD, BOS chairperson concluded the meeting with vote of thanks. HOD thanked all the BOS members for their active participation and valuable suggestions.

18-6-2021

HOD,ISE

HEAD

Dept. of Information Science & English. Ambedkar Institute of Technology Bangalors-560 058.

ONLINE MEETING INFORMATION

Department of ISE BOS Meeting

When Thu Jun 17, 2021 11am – 1pm India Standard Time - Kolkata

Where Bengaluru, Karnataka, India (map)

Joining info Join with Google Meet

meet.google.com/keq-ffmr-xfb

Scheme and Syllabus

ACADEMIC YEAR 2016-2017

III - IV (2015-2019 BATCH)

Dr. Ambedkar Institute of Technology Bangalore



Department Of Information Science and Engineering

SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

III SEMESTER

S. No.	Subject Code	Subject	Teaching	Hr	s/week				Examinati	on
	3.9		Dept.	Lecture	Tutor ial	Practi cal			Marks	
							CIE /Assign ment	SEE	Credits	Total
1	MA31IS	Discrete Mathematics and Numerical Methods	Mathematics	04			45/5	50	4	100
2	IS31	Computer Organization and Architecture	ISE	04			45/5	50	4	100
3	IS32	Digital principles and logic design.	ISE	04			45/5	50	4	100
4	IS33	Data Structures with C	ISE	03	2		45/5	50	4	100
5	1834	Internet Programming	ISE	04			45/5	50	4	100
6	ISL35	Data Structures with C Lab	ISE	-		2	50	50	1	100
7	ISL36	Digital principles and logic design Lab	ISE	2		2	50	50	i	100
8	ISL37	Internet Programming Lab	ISE	- 2		2	50	50		100
		Total		19	02	06	400	400	23	800

HEAD
DEPT. OF INFORMATION SCIENCE & ENGG.

Or. Ambedier lexit-ut a of Technology

Bangelore-560 059,

SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

IV SEMESTER

S. No.	Subject Code	Subject	Teaching	Hr	s/week			Ú.	on	
		V84.V488000	Dept.	Lecture	Tutori al	Practi cal			Marks	
							CIE /Assign ment	SEE	Credits	Total
1	MA41IS	Probability, Queuing Theory and Reliability	Mathematics	04			45/5	50	4	100
2	IS41	Microprocessor and microcontroller	ISE	04	V		45/5	50	4	100
3	IS42	Design and Analysis of Algorithms	ISE	04			45/5	50	4	100
4	1543	Object Oriented Programming with C++	ISE	04			45/5	50	4	100
5	1544	Python Programming	ISE	03	2		45/5	50	4	100
6	IS45	Software Engineering	ISE	04			45/5	50	4	100
7	ISL46	Object Oriented Programming with C++ Lab	ISE			3	50	50	1.5	100
8	ISLA7	Design and Analysis of Algorithms Lab	ISE			3	50	50	1.5	100
		22	2	6	450	450	27	900		

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DEPT. OF INFORMATION SCIENCE & ENGG.

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Scheme and Syllabus

ACADEMIC YEAR 2016-2017

V - VI (2014-2018 BATCH)

Dr. Ambedkar Institute of Technology Bangalore



Department Of Information Science and Engineering

SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

V SEMESTER

S. No.	Subject Code	Subject	Teaching	Hr	s/week				on	
S. NO.	Subject Code	Subject	Dept.	Lecture	Tutori	Practi cal			Marks	
							CIE /Assign ment	SEE	Credits	Total
1	IS51	Software Engineering	ISE	04			45/5	50	4	100
2.	1S52	Java Programming	ISE	03			45/5	50	3	100
2	1S53	Web Technologies	ISE	03		-	45/5	50	3	100
4	1854	Database Management Systems	ISE	03	2		45/5	50	4	100
5	1855	Computer networks	ISE	04	-	5	45/5	50	4	100
6	1856	Theory of computation	ISE	04			45/5	50	4	100
7	ISL57	Database Applications Lab	ISE			02	50	50	- 1	100
1	1SL57	Web Technologies Lab	ISE			02	50	50	1	100
8		Java Programming Lab	ISE			02	50	50	1	100
9	ISL59	Total	Tion	21	2	06	450	450	25	900

HEAD DEPT. OF INFORMATION SCIENCE & ENGG.

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SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

VI SEMESTER

S. No.	Subject Code	Subject	Teaching	H	rs/week				on	
			Dept.	Lecture	Tutori al	Practi cal	CIE /Assign ment	Marks		
								SEE	Credits	Total
1	HS03	Management and Entrepreneurship	MBA	04			45/5	50	4	100
2	1561	Java Enterprise programming	ISE	03			45/5	50		2.0.0
3	IS62	UNIX Systems Programming	ISE	03	2		45/5	50	3	100
4	1S63	Cloud Computing	10000	100.00	-		0.000,100	50	4	100
5	1564		ISE	04			45/5	50	4	100
		Cryptography and Network Security	ISE	03			45/5	50	3	100
5	1S65x	Elective I (Group-A)	ISE	04			45/5			
7	ISL66	Network's and Security Lab	ISE			2		50	4	100
	ISL67	Java Enterprise Programming Lab	ISE			3	50	50	1.5	100
	ISP68	Mini Project				3	50	50	1.5	100
	1SE					2	50	50	02	100
	Total				2	08	450	450	27	900

Elective I - Group A

IS651	Artificial Intelligence
IS652	Compiler Design
15653	Business Intelligence
IS654	Mobile Application Development
IS655	Information Systems

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Scheme and Syllabus

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Dr. Ambedkar Institute of Technology Bangalore



Department Of Information Science and Engineering

SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

VII SEMESTER

S. No.	Subject Code	Subject	Teaching	H	s/week		4		on	
			Dept.	Lecture	Tutori al	Practi cal			Marks	
							CIE /Assign ment	SEE	Credits	Total
1	IS71	Software Architectures	ISE	03			45/5	50	3	100
2	1S72	Cloud Computing	ISE	03			45/5	50	3	100
3	1S73	Python Programming	ISE	03			45/5	50	3	100
4	IS74	Data Mining and Data Warehousing	ISE	03			45/5	50	3	100
5	1S75x	Elective II (Group-B)	ISE	03			45/5	50	3	100
6		Inter Departmental Elective	ISE	04			45/5	50	4	100
7	ISL76	Networks Laboratory	ISE	-		2	50	50	1.0	100
8	ISL77	Python Programming Lab	ISE			2	50	50	1.0	100
9	ISL78	Cloud Computing Lab	ISE	-		2	50	50	1.0	100
10	ISP78	Project Phase-I	ISE					12		
		Total		19		06	450	450	22	900

Elective II – Group B

18751 Advanced DBMS

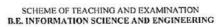
18752 Object Oriented Modeling and Design

18753 Storage Area Networks

18754 C# Programming and .Net

Elective III – Group C (Inter Departmental Elective)
ISE01 Wireless Sensor Networks
ISE02 Information Systems
ISE03 Protocol Engineering

HEAD



VIII SEMESTER

S. No.	Subject Code	Subject	Teaching	Hr	s/week				Examination	on
		3	Dept.	Lecture	Tutori al	Practi cal			Marks	
							CIE /assign ment	SEE	Credits	Total
1	HS04	Intellectual Property Rights	1SE	02			45/5	50	2	100
2	1S81	Software Testing	ISE	03			45/5	50	3	100
3	1S82x	Elective IV(Group-D)	ISE	03			45/5	50	3	100
4		Inter Departmental Elective		04			45/5	50	4	100
5	1SP83	Project Phase-II	IŜE				50	50	12	100
6	ISS84	Seminar	ISE		diam'r.		50	12	2	50
		Total			100		300	250	26	550

Elective IV – Group D

IS821 Wireless Sensor Networks

IS822 Protocol Engineering
IS823 Cryptography and Network security
IS824 Big Data Analytics

Elective V- Group E (Inter Departmental Elective)
1SE04 Internet Programming
1SE05 Artificial Intelligence
1SE06 Java Programming

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Detailed Scheme

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B.E

Department Of Information Science and Engineering

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Academic Year 2017-2018: III Semester

SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERI

		Subject	Teaching Dept.	Hrs/week				_		
		**	Верс.	Lecture	Tutor ial	Practi cal			Examinat Marks	
1	MA31IS	Discrete Mathematics and	Mathematics				CIE /Assign ment	SEE	Credits	Total
2	IS31	Numerical Methods Computer Organization and		04			45/5	- 50	4	100
3	JS32	Architecture Digital principles and logic design.	ISE	04			45/5	50	4	100
4 515385	.1S33	Data Structures with C	ISE	04			45/5	50		
5	IS34 ISL35	Unix and Shell Programming	ISE ISE	03	2		45/5	50	4	100
7	ISL36	Data Structures with C.L.a.b.	ISE	03	4000	2	45/5	50	4	100
-	ISL37	Digital principles and logic design	ISE	-		2	50	50	1.5	100
	18L37	Mini Project	ISE			150	50	30	1.5	100
		Total	102	18		2	50	50	1	100
150				10	02	08	400	400	24	800

Head of the Department— Dept. of Information Science & Engineering S.J.B. Institute of Technology Kengeri, Bangalore-560 060.

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DEPT, OF INFORMATION SCIENCE & ENGG.

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Academic Ýear 2017-2018 : IV Semester SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

S. No.	Subject Code	Subject	Teaching	H	rs/week				Examinati	
			Dept.	Lecture	Tutori al	Practi cal			Marks	on
,							CIE /Assign	SEE	Credits	Total
1	MA41IS	Probability, Queuing Theory and Reliability	Mathematics	04			ment 45/5	50	4	100
2	IS41	Microprocessor and Microcontroller				-		50		100
3	IS42	Design and Analysis of Algorithms	ISE	04			45/5	50	4	100
4	IS43	Object Oriented Programming with	ISE	03	2		45/5	50	4	100
		C++	ISE	04			45/5	50		100
5	IS44				1 4		4313	30	4	100
		Graph Theory / Python Programming	ISE	3			45/5	50	3	100
6	IS45	Software Engineering	No. of Acres of the Control of the C							100
7	ISL46	Object Oriented Programming with	ISE	04	EC. BOX	是1月855年	45/5	50	654 CE	100
		C++ Lab	ISE			3	50	50	1.5	100
8	ISL47	Design and Analysis of Algorithms	ton							100
		Lab	ISE			3	50	50	1.5	100
		Total								_
				22	2	6	400	400	26	800

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Dept. of Information Science & Engineering
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Scheme and Syllabus

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Dr. Ambedkar Institute of Technology Bangalore



Department Of Information Science and Engineering





Academic Year 2017-2018: V Semester SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

S. No.	Subject Code	Subject	Teaching	Hr	s/week				Examinat	tion
			Dept.	Lecture	Tutori al	Practi cal			Marks	
1825.0	IS51						CIE /Assign ment	SEE	Credits	Total
2	IS52	Operating Systems	ISE	04	中方动物	W Breeze	45/5	50	4	SEL 100
		Java Programming	ISE	03	2	2184 0822 097089	CONTRACTOR OF THE	general percent	4704448270648	100
3	IS53	Web Technologies	(22 CV)	0.5	4		45/5	50	4	100
4	IS54	Database Manage + C	ISE	03			45/5	50	3	100
5	IS55	Database Management Systems	ISE	04			45/5	50	4	100
6		Data Communication	ISE	03		44	- 45/5-	- 50	- 2	
7	ISL57	UNIX Systems Programming	ISE	04	指線距离	ENGINEE	T		NUMBER PANALSTAN	100
8	ISL58	Database Applications Lab	ISE			02	50	50	层数4层数	
		Web Technologies Lab	ISE			02		50	1	100
9	ISL59	Java Programming Lab (update)	ISE				50	50	1	100
		Total	100	21		02	50	50	1	100
				21	2	06	450	450	255	900

Dept. of Information 2. Know a Engineering S.J.B. Institute of Technology Kengeri, Bangalore-560 060.

HEAD DEPT. OF INFORMATION SCIENCE & ENGG.

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Academic Year 2017-2018: VI Semester

SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEER

	Subject Code	Subject	Teaching	H	rs/week			Examina		
			Dept.	Lecture	Tutori al	Practi cal		Marks		
1	HS03	Management and Entrepreneurship		-			CIE /Assign ment	SEE	Credits	Total
2	IS61	Mobile Application Development		04			45/5	50		
3	IS62	Theory of computation	ISE	03			45/5		4	100
4	IS63	Claud Computation	ISE	03	2.7	- Torriber	45/5	50	3	100
5	IS64	Cloud Computing	ISE	03	NAME OF TAXABLE PARTY.	Comments.	SERVICE STATE OF THE PARTY OF T	Terretalia	4	100
5		Computer Networks	ISE	03			45/5	50	3	100
7	101 44	Elective I (Group-A)	ISE	04			45/5	50	3	100
3	202 40	Networks Lab	ISE	- 0-1	_		45/5	50	4	100
	100.00	Cloud computing Lab		-		2	50	50	1	100
	15P68	Mini Project	ISE			2	45/5	50	1	100
			IOL	-		2	50	50	02	100
		Total		21	2					100
				41	2	08	450	450	74075 W	000

Elective I - Group A IS652

Artificial Intelligence
Compiler Design
Business Intelligence
Machine Learning
Information Systems /
Cryptography and Network Security IS653 IS654

IS655 IS656

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Dept. of Information Science & Engineering
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ACADEMIC YEAR 2017-2018

VII - VIII

(2014-2018 BATCH)

Dr. Ambedkar Institute of Technology Bangalore



Department Of Information Science and Engineering

Academic Year 2017-2018: VII Semester SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERI

S. No.	Subject Code	Subject	Teaching		Hrs/wee		T	T-	Examina	ation
			Dept.	Lectur e	Tuto rial	Pract ical	t		Mark	-
,	Y05-						CIE /Assig	SE E	Credit	Total
1	IS71	Software Architectures	ISE				nment			1
2	IS72	Python Programming		04	•		45/5	50	4	100
3	IS73	Big Data Analytics	ISE	03			45/5	50	3	100
4	IS74x	Elective II (C	ISE	04			45/5	50	4	
5		Elective II (Group-B)	ISE	04			45/5	50		100
6	ISL75	Inter Departmental Elective	ISE	04		-			4	100
U	ISL/S	Python Programming Lab	ISE	0,	-	_	45/5	50	4	100
7	YOY OF			-		3	50	50	1.5	100
	ISL76	Cloud Computing and Big Data Lab	ISE	-		3	50	50	1.5	100
8	ISP77	Project Phase-I	ICC				2-2000			100
		Total	ISE	-				-	_	-
		1 Otal		19		06	350	0.55	22	700

Elective	77_	Crown	D

Group B Advanced DBMS IS741

Object Oriented Modeling and Design

IS742 IS743 Storage Area Networks C# Programming and .Net IS744

Elective III – Group C ISE01 Win

(Inter Departmental Elective)

Wireless Sensor Networks

ISE02 Information Systems ISE03

Protocol Engineering

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Academic Year 2017-2018: VIII Semester SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

VIII Semester

S. No.	Subject Code	Subject	Teaching	Н	rs/week			T	Examina	ntion
		* a	Dept.	Lecture	Tuto rial	Prac tical			Mark	77.0.0.00
			-	8•			CIE ·/assi gnm	SE E	Credit s	Total
l	HS04	Intellectual Property Rights	ISE	02			ent			
2	IS81	Software Testing	ISE				45/5	50	2	100
3	IS82x	Elective IV(Group-D)		03			45/5	50	4	100
		Inter Department LEI	ISE	04			45/5	50	4	100
	ISP83	Inter Departmental Elective		04			45/5	50	4	100
	ISS84	Project Phase-II	ISE	-			50	50	12	100
	15584	Seminar	ISE				50	-	2	
		Total		13					28	50

Elective IV - Group D

Dept. of Information Property & Engineering S.J.B. Institute of Technology Kengeri, Bangalore-560 060.

Wireless Sensor Networks

IS822

Protocol Engineering

15823

IS821

Cryptography and Network security

18824 IS823: Machine Learning

Elective \dot{V} - Group E (Inter Departmental Elective)

ISE04 Internet Programming

ISE05 Artificial Intelligence

ISE06 Java Programming

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Detailed Scheme

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Dr. Ambedkar Institute of Technology Bangalore

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B.E

Department Of Information Science and Engineering

Academic Year 2018-2019 : III Semester

SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

S. No.	Subject Code	Subject	Teaching	Hr	s/week				Examinati	on
			Dept.	Lecture	Tutor ial	Practi cal			Marks	011
	Musus						CIE /Assign ment	SEE	Credits	Total
1	MA31IS	Discrete Mathematics and Numerical Methods	Mathematics	04			45/5	50	4	100
2	IS31	Computer Organization and Architecture	ISE	03	2		45/5	50	4	100
3	IS32	Digital principles and logic design.	ISE	0.1						
4	IS33	Data Structures with C		04			45/5	50	4	100
5	IS34	Unix and Shell Programming	ISE	04			45/5	50	4	100
5	ISL35	Data Structures with C Lab	ISE	04			45/5	50	4	100
7	ISL36		ISE	-		3	50	50	1.5	100
		Digital principles and logic design Lab	ISE	-		3	50	50	1.5	100
3	ISL37	Unix and Shell Programming Lab	ISE	-		2	50			
		Total	1.00	19	02		50	50	1	100
				19	02	08	400	400	24	800

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DEPT. OF INFORMATION SCIENCE & ENGG.

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Dept. of Information Science & Engg. Dr. Ambedkar Institute of Technology Bengalore-560 066.

Academic Year 2018-2019: IV Semester SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

S. No.	Subject Code	Subject	Teaching	Hi	rs/week				Examinati	on
		1 23 1 10	Dept.	Lecture	Tutori al	Practi cal			Marks	
			la re				CIE /Assign ment	SEE	Credits	Total
1	MA411S	Probability, Queuing Theory and Reliability	Mathematics	04			45/5	50	4	100
2	IS41	Microprocessor and Microcontroller	ISE	04			45/5	50	4	100
3	IS42	Design and Analysis of Algorithms	ISE	03	2		45/5	50	4	100
4	IS43	Object Oriented Programming with C++	ISE	04	-		45/5	50	4	100
5	IS44	Graph Theory	ISE	3			45/5	50	3	100
6	IS45	Software Engineering	ISE	04		-	45/5	50	4	100
7	ISL46	Object Oriented Programming with C++ Lab	ISE	-		3	50	50	1.5	100
8	ISL47	Design and Analysis of Algorithms Lab	ISE			3	50	50	1.5	100
		Total		22	- 2	6	400	400	26	800

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DEPT. OF INFORMATION SCIENCE & ENGG

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Department of Information Science and Engineering

Academic Year 2018-2019: V Semester

SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

S. No.	Subject Code	Subject	Teaching	H	rs/week	11111		1	Examinati	
			Dept.	Lecture	Tutori al	Practi cal			Marks	on
	105						CIE /Assign	SEE	Credits	Total
1	IS51	Operating Systems	ISE	04			ment			
2	IS52	Java Programming	ISE				45/5	50	4	100
3	IS53		11000	0.3	2		45/5	50	4	100
4	IS54	Web Technologies	ISE	03			45/5	50	3	
5	IS55	Database Management Systems	ISE	04			45/5	50		100
6	THE RESIDENCE OF THE PARTY OF T	Data communication	ISE	03			THE PERSON NAMED IN COLUMN	-	4	100
	IS56	UNIX Systems Programming	ISE				45/5	50	3	100
7	ISL57	Database Applications Lab	The state of the s	04			45/5	50	4	100
8	ISL58	Web Technologies Lab	ISE			02	50	50	1	100
)	ISL59	Inva Programming Lab	ISE			02	50	50	1	100
		Java Programming Lab	ISE			02	50	50		
		Total		21	2	The same of the sa		-		100
				- 1	- 4	06	450	450	25	900

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DEPT. OF INFORMATION SCIENCE & ENGG.

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Academic Year 2018-2019: VI Semester

SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

S. No.	Subject Code	Subject	Teaching	H	s/week				Examinati	on
			Dept.	Lecture	Tutori al	Practi cal			Marks	
1	HS03						CIE /Assign ment	SEE	Credits	Total
2	100000000000000000000000000000000000000	Management and Entrepreneurship	MBA	04			45/5	50	4	100
2	IS61	Mobile Application Development	ISE	03	_					100
3	IS62	Theory of Computation	ISE	03	-		45/5	50	3	100
4	IS63	Cloud Computing		1997	2		45/5	50	4	100
5	IS64	Cloud Computing	ISE	03			45/5	50	3	100
6	IS65x	Computer Networks	ISE	03			45/5	50	3	100
7		Elective I (Group-A)	ISE	04			45/5	50	4	
	ISL66	Networks Lab	ISE			2			4	100
8	ISL67	Cloud Computing Lab	ISE				50	50	1	100
9	ISP68	Mini Project				2	45/5	50	1	100
		Total	ISE			2	50	50	02	100
		Total		20	2	06	450	450	25	900

Elective I - Group A

IS651 IS652

Artificial Intelligence Compiler Design Python programming Machine Learning Information Systems Cryptography and Network Security IS653 IS654 IS655

IS656

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Detailed Scheme and Syllabus

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Dr. Ambedkar Institute of Technology Bangalore



Department Of Information Science and Engineering

Academic Year 2018-2019: VII Semester SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

S. No.	Subject Code	Subject	Teaching	H	rs/week				Examinati	
			Dept.	Lecture	Tutorial	Practi cal			Marks	On
1	IS71	6-0					CIE /Assig nment	SEE	Credits	Total
2		Software Architectures	ISE	04			45/5	50		
	IS72	Internet of Things	ISE	04				-	4	100
3	IS73	Big Data Analytics	ISE				45/5	50	4	100
4	IS74x	Elective II (Group-B)		04			45/5	50	4	100
5		Inter Departmental Elective	ISE	04			45/5	50	4	100
6	ISL75	Mobile Austinettal Elective	ISE	04			45/5	50	4	
501	10275	Mobile Application Development	ISE	-		2	50	50	1	100
7	ISL76	Big Data Lab	TOP					535000	(S)	
8	ISP77	Project Phase-I	ISE	-		2	50	50	1	100
	1.3-3.64		ISE	-				-	1	100
		Total		19		04	350	_	-	-
						- 04	330	350	22	700

IS741 Advanced DBMS
IS742 Object Oriented Modeling and Design
IS743 Storage Area Networks
IS744 C# Programming and .Net

Elective III – Group C (Inter Departmental Elective)
ISE01 Wireless Sensor Networks
ISE02 Information Systems
ISE03 Protocol Engineering

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Academic Year 2018-2019: VIII Semester SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

VIII Semester

S. No.	Subject Code	Subject	Teaching	Hr	s/week				Examinatio	n
			Dept.	Lecture	Tutorial	Practi cal	28		Marks	
		_					CIE /assig nment	SEE	Credits	Total
1	HS04	Intellectual Property Rights	ISE	02			45/5	50		100
2	IS81	Software Testing	ISE	04						100
3	IS82x	Elective IV(Group-D)	ISE				45/5	50	4	100
4		Inter Departmental Elective	ISE	04			45/5	50	4	100
5	ISP83			04			45/5	50	4	100
1		Project Phase-II	ISE				50	50	12	100
6	ISS84	Seminar	ISE				50		2	50
		Total		14			300	250	28	550

IS823

Elective IV – Group D

IS821 Wireless Sensor Networks
IS822 Protocol Engineering

Protocol Engineering Machine Learning and Applications

ISE04

Elective V- Group E (Inter Departmental Elective)
Internet Programming
Artificial Intelligence
Java Programming

ISE05 ISE06

HEAD

DEPT. OF INFORMATION SCIENCE & ENGG.

HEAD

Copt. of Information Science & Engp. Dr. Ambedkar Institute of Technology Bangalore-560 058.

Detailed Scheme

ACADEMIC YEAR 2019-2020

Dr. Ambedkar Institute of Technology Bangalore

III-4711 (2018-2022 BATCH) (175 Credits)



B.E

Department Of Information Science and Engineering

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Dr. Ambedkar Institute of Technology, Bengaluru-560 056
SCHEME OF TEACHING AND EXAMINATION from Academic Year 2019-20
B.E INFORMATION SCIENCE AND ENGINEERING
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

				22	Teaching	Hours AV	cck		Exan	ination		
il. No		Course and Course Code	Course Title	Teaching	Theory	Tutorial	Practical / Drawing	uration in hours	E Marks	SEE Marks	Total Marks	Credits
				(5)	L	Т	P	ā	CIE	S	P	
1	BC	18MA31 IS	Discrete Mathematical Structure	Mathematics	2	2		03	50	50	100	3
2	PC	181S31	Computer Organization and Architecture						50	50	100	3
	PC	18IS32	Data Structures with C	ISE	4	0	P 1	03	50	50	100	4
	PC	18IS33	Unix and Shell Programming	ISE	4	0		03	50	50	100	4
5	PC	18IS34	Digital principles and logic design	ISE	3	2		03	50	50	100	4
6	PC	18IS35	Software Engineering	ISE	3	0	**	03	50	50	100	3
7	PC	18ISL36	Data structure with C Lab	ISE	3	0	••	03	50	50	100	3
8	PC	18ISL37	Digital principles Att / 1	ISE	**		2	03	50	50	100	3
9	III .		Digital principles and logic design Lab Constitution of India Professional Ethics and	ISE	**		2	03	50	50	100	-
	HS	18HS31/32	Human Rights// Env. Studies	HS/CV	1			02	50	50	100	
10	MC	1811533	Soft skills (MC)	HS	04				1100	20	100	
					04			03	50	-	50	0
				TOTAL	24	04	04	29	500	450	950	24

			0.3200/0.000/	i i i i i i i i i i i i i i i i i i i	noma noiders admi	tted to 1	II semes	ter of Eng	incering	progra	ms	
1)	11	MC	18MAD31	Basic Engineering Mathematics - 1	Mathematics	02	01		0.2			
1	Note: HC	Ds are in	aformed to accou	amodate one more laborators in a Life and			01		03	50	50	0

Note: HODs are informed to accommodate one more laboratory in addition to the above courses if needed, without altering the total number of credits (FOTAL: 24).

The mandatory non – credit courses Advance Mathematics I and II prescribed at III and IV semesters respectively, to lateral entry Diploma holders admitted to III semester of BE programs (b) The mandatory non – credit courses Advance Mathematics I and II, prescribed to lateral entrant Diploma holders admitted to III semester of BE programs (b) The mandatory non – credit courses Advance Mathematics I and II, prescribed to lateral entrant Diploma holders admitted to III semester of BE programs, are to be completed to secure programme to eligibility to VII semester. However, they are not considered for vertical progression from II year of the programme but considered as head of passing along with credit courses of the

Note: BC: Science Course, PC: Professional Core. Hu: Humanities, MC: Mandatory Course.

HEAD DEPT, OF INFORMATION SCIENCE & ENGG.

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Japt of Information Science & Engl.

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Mangalore-560 058.

Dr. Ambedkar Institute of Technology, Bengaluru-56

SCHEME OF TEACHING AND EXAMINATION from Academic Year 2019-20
B.E INFORMATION SCIENCE AND ENGINEERING
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

IV SEMESTER

TO CHARLES

					Teachl	ng Hours	/Week		Exa	mination		-
SL No		Course and Course code	Course Title	Teaching	Theory	Tutorial	Practical/ Drawing	Duration In hours	CIE Marks	SEE Marks	Total Marks	Credits
					I.	Т	P	-	-		-	
1	BC	18MA41 IS	Probability, Queuing Theory and Reliability	Mathematics	2	2		03	50	50	100	3
2	PC	18IS41	Microcontroller and Embedded Systems	ISE	3	0		03	50	50	100	3
3	PC	18IS42	Design and Analysis of Algorithm	ISE	4	0		03	50	50	100	4
4	PC	18IS43	Object Oriented Concepts	ISE	4	0		03	50	50	100	4
5	PC	18IS44	Python Programming	ISE	3	0		03	50	50	100	3
6	PC	18IS45	Computer Networks	ISE	3	2		03	50	50	100	4
7	PC	181SL46	Object Oriented Concepts Lab	ISE		-	2	03	50	50	100	1
8	PC	181SL47	Design and Analysis of Algorithm Laboratory	ISE	-	-	2	03	50	50	100	1
9	HS	18HS41/42	Constitution of India Professional Ethics and Human Rights/ Env. Studies	HS/CV	1	-	-	02	50	50	100	1
10	MC	18HS43	Employability skills (MC)	HS	04		-	03	50	-	50	0
				TOTAL	24	04	04	29	500	450	950	24

	-01		Course prescribed to lateral entry Diplo	ma holders admitted to	III semest	er of Er	gineering	program	15		
11	мс	18MAD41	Basic Engineering Mathematics - II	Mathematics	02	01	-	03	50	50	0

Note: HODs are informed to accommodate one more laboratory in addition to the above courses if needed, without altering the total number of credits (TOTAL: 24).

(a) The mandatory non – credit courses Advance Mathematics I and II prescribed at III and IV semesters respectively, to lateral entrant Diploma holders admitted to III semester of BE programs shall compulsorily be registered during respective semesters to complete all the formalities of the course and appear for SEE examination.

(b) The mandatory non – credit courses Advance Mathematics I and II, prescribed to lateral entrant Diploma holders admitted to III semester of BE programs, are to be completed to secure eligibility to VII semester. However, they are not considered for vertical progression from II year to III year of the programme but considered as head of passing along with credit courses of the programme to eligibility to VII semester. VII semester.

Note: BC: Science Course, PC: Professional Core. Hu: Humanities, MC: Mandatory Course. ENV: Environmental Studies, CIP: Constitution of India Professional Ethics and Human Rights

HEAD DEPT. OF INFORMATION SCIENCE & ENGG

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Sangaiore-580 055.

Detailed Scheme

ACADEMIC YEAR 2019-2020

V-VI

(2017-2021 BATCH)

(200 Credits)

Dr. Ambedkar Institute of Technology Bangalore



Department of Information Science and Engineering

Academic Year 2019-2020 : V Semester

SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

No.	Subject Code	Subject	Teaching Dept.	Hrs/week				Examination		
				Lecture	Tutori al	Practi cal		Marks		
							CIE /Assign ment	SEE	Credits	Total
1	1851	Operating Systems	ISE	04			45/5	50	4	100
2	1852	Java Programming	ISE	03	2		45/5	50	4	100
3	1853	Web Technologies	ISE	03			45/5	50	3	100
4	1854	Database Management Systems	ISE	04			45/5	50	4	100
5	IS55	Data communication	ISE	03		-	45/5	50	3	100
6	1S56	UNIX Systems Programming	ISE	04	-		45/5	50	4	100
7	1SL57	Database Applications Lab	ISE			02	50	50	1	100
8	1SL58	Web Technologies Lab	ISE			02	50	50	1	100
9	1SL59	Java Programming Lab	ISE			02	50	50	1	100
	Lamada	21	2	06	450	450	25	900		

DEPT. OF INFORMATION SCIENCE & 1366.

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Banaciore-560 054.

Academic Year 2019-2020 : VI Semester

SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

Subject Code	Subject	Teaching Dept.	H	s/week			Examination Marks			
			Lecture	Tutori al	Practi cal					
03		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					CIE /Assign	SEE	Credits	Total
51		Management and Entrepreneurship	MBA	04			ment 45/5			
		Mobile Application Development	ISE	03			1,020,000	50	4	100
52		Theory of Computation	ISE				45/5	50	3	100
63		Cloud Computing	00000	03	2		45/5	50	4	100
64		Computer Networks	ISE	03			45/5	50	3	100
655	v	Elective I (C)	ISE	03			45/5	50	3	100
L6	7.0	Elective I (Group-A)	ISE	04			45/5	50	4	100
L6'	-	Networks Lab	ISE	-		2	50	50	1	
-	-	Cloud Computing Lab	ISE			2	45/5	50	1	100
P6	ð	Mini Project	ISE			2	50	0.0	- 1	100
Total					1	-		50	02	900
		Total		20	2	06	450	450	25	_

Elective I – Group A 1S651 1S652

Artificial Intelligence Compiler Design Python programming Machine Learning Information Systems Cryptography and Network Security 1S653 1S654 1S655 1S656

DEPT OF INFORMATION SCIENCE & TRANS.

M. Ambedkar Institute of Technology.

Bangalore-560 056.

Detailed Scheme and Syllabus

ACADEMIC YEAR 2019-2020

VII - VIII (2016-2020 BATCH)

(200 (redite)

Dr. Ambedkar Institute of Technology Bangalore



Department Of Information Science and Engineering

Academic Year 2019-2020 : VII Semester SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

S. No.	Subject Code	Subject	T			obitii 1	G			
			Teaching	- Thometa			1	Examinat	ion	
			Dept. Lecture Tutorial Practical		Practi cal			Marks		
1	teau						CIE /Assig	SEE	Credits	Tota
-	IS71	Software Architectures	ISE				nment		1	1
2	IS72	Internet of Things		04			45/5	50	4	100
3	IS73	Big Data Analytics	ISE	04			45/5	50	-	-
4	IS74x	Floring U.G.	ISE	04			45/5	50	- +	100
5		Elective II (Group-B)	ISE	04				-	4	100
6	ISL75	Inter Departmental Elective	ISE	04			45/5	50	4	100
*	131.73	Mobile Application Development	ISE			-	45/5	50	4	100
7	ISL76	120	1.00			2	50	50	1	100
8		Big Data And Analytics Lab	ISE			-				
0	ISP77	Project Phase-I	ISE	-		2	50	50	- 1	100
		Total	1.5.4							
				19		04	350	350	22	700

Elective II – Group B

IS741 Advanced DBMS
IS742 Object Oriented Modeling and Design
IS743 Storage Area Networks
IS744 C# Programming and .Net

| Elective III - Group C (Inter Departmental Elective) |
| ISE01 Wireless Sensor Networks |
| ISE02 Information Systems |
| ISE03 Protocol Engineering |

Dept of information science & engg. Sangalore-bat 058.

Academic Year 2019-2020 : VIII Semester SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

VIII Semester

S. No.	Subject Code	Subject	Teaching	110	rs/week					
			Dept,			-			Examinatio	n
				Lecture	Tutorial	Practi cal			Marks	
1	Heer						CIE /assig	SEE	Credits	Total
2	HS04	Intellectual Property Rights	100				nment			
2	1881	Software Testing	ISE	02			45/5	50	-	
3	1882x	Elective IV(Group-D)	ISE	04			45/5	50	2	100
1		Inter Departmental Elective	ISE	04			45/5		4	100
5	ISP83	Project Phase-II	7	04				50	4	100
,	ISS84	Seminar Seminar	ISE	-		_	45/5	50	4	100
	1		ISE				50	50	12	100
		Total	-	14	_		50		2	50
271		99/F124		14			300	250	28	550
IS:	822	up D Wireless Sensor Networks Protocol Engineering Machine Learning and Applications	ISE04 1SE05 1SE06	ective V- G	Internet Artificia Java Pro	Program I Intellig	ming	Elective)		

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Bangalora-560 058.

Detailed Scheme

ACADEMIC YEAR 2020-2021

Dr. Ambedkar Institute of Technology Bangalore

III - IV (2019-2023 BATCH) (175 Credits)



B.E

Dr. Ambedkar Institute of Technology, Bengaluru-560 056 SCHEME OF TEACHING AND EXAMINATION from Academic Year 2020-21 B.E INFORMATION SCIENCE AND ENGINEERING

Outcome Based Education (ORF) a

	1				Teachin	g Hours /	Week		Exam	ination		
SI. No		Course and Course Code	Course Tide	Teaching Department	Theo ry Lect ure	Tuto rial	Practic al/ Drawi ng	Dur atio n in hour	CIE Mar ks	SEE Mar ks	Tota I Mar ks	Credits
_	-				L	T	P	5			K3	
1	BC	18MA31	Discrete Mathematics and Numerical Methods	Mathematics	2	2		03	50	50	100	3
2	PC	18IS31	Computer Organization and Architecture	ISE	4	0		03	50	50	100	- 4
3	PC	18IS32	Data Structures with C	ISE	4	0	_	03	50	50	100	4
4	PC	18IS33	Unix and Shell Programming	ISE	3	2		03	50	50	100	4
5	PC	18IS34	Digital principles and logic design	ISE	3	0		03	50	50	100	3
6	PC	18IS35	Software Engineering	ISE	3	0		03	50	50	100	3
7	PC	18ISL36	Data structure with C Lab	ISE		-	2	03	50	50	100	3
8	PC	18ISL37	Digital principles and logic design Lab	ISE	-		2	03	50	50	100	1
9	HS	18HS31/32	Constitution of India Professional Ethics and Human Rights// Env. Studies	Hu/Civ	1			02	50	50	100	1
10	MC	18HS33	Soft skills (MC)	Humanities	04			03	50	-	50	0
				TOTAL	24	04	04	29	500	450	950	24

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs												
11	MC	18MAD31	Advance Mathematics - I	Mathematics	02	01		03	50		50	0

Note: HODs are informed to accommodate one more laboratory in addition to the above courses if needed, without altering the total number of credits (TOTAL: 24).

(a) The mandatory non – credit courses Advance Mathematics I and II prescribed at III and IV semesters respectively, to lateral entry Diploma holders admitted to III semester of BE programs shall compulsorily be registered during respective semesters to complete all the formalities of the course and appear for SEE examination.

(b) The mandatory non – credit courses Advance Mathematics I and II, prescribed to lateral entrant Diploma holders admitted to III semester of BE programs, are to be completed to secure eligibility to VII semester. However, they are not considered for vertical progression from II year to III year of the programme but considered as head of passing along with credit courses of the programme to clinibility to VII semester. passing along with credit courses of the programme to eligibility to VII semester

Note: BC: Science Course, PC: Professional Core. Hu: Humanities, MC: Mandatory Course.

HEAD DEPT. OF INFORMATION SCIENCE & ENGG

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Dr. Ambedkar Institute of Technology, Bengaluru-56 SCHEME OF TEACHING AND EXAMINATION from Academic Year 2020-21 B.E INFORMATION SCIENCE AND ENGINEERING

Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

	-	 		-		-
IV	SI	16	S	Œ	:R	3.5

				Teach	ing Hour	/Week		Exa	nination		-
		Course Title	Teaching Department	Theory Lectur e	Tut ori al	Practic al/ Drawi ng	Durat ion in hours	CIE Mark s	SEE Mark s	Total Marks	Credi ts
				L	T	P					-
ВС	18MA41	Probability, Queuing Theory and Reliability	Mathematics	2	2	**	03	50	50	100	3
PC	18IS41	Microcontroller and Embedded Systems	ISE	3	0		03	50	50	2.2.2	3
PC			ISE	4	0	**	03	50	50		4
	-		ISE	4	0		03	50	50	(7.535)	4
			ISE	3	0		03	50	50		3
-			ISE	3	2		03				4
PC		Object Oriented Concepts Lab	ISE			2					1
PC	18ISL47	Design and Analysis of Algorithm Lab	ISE			2	03	50	50	100	1
HS	18HS41/42	Constitution of India Professional Ethics and Human Rights/ Env. Studies	Hum/Civ	1	3.55		02	50	50	100	1
мс	18HS43	Employability skills (MC)	Humanities	04			03	50	-	50	0
			TOTAL	24	04	04	29	500	450	950	24
	BC PC	PC 18IS41 PC 18IS42 PC 18IS43 PC 18IS44 PC 18IS45 PC 18IS45 PC 18ISL46 PC 18ISL47 HS 18HS41/42	Course code Course Title	Course code Course Title Peaching Department BC 18MA41 Probability, Queuing Theory and Reliability Mathematics PC 18IS41 Microcontroller and Embedded Systems ISE PC 18IS42 Design and Analysis of Algorithm ISE PC 18IS43 Object Oriented Concepts ISE PC 18IS44 Python Programming ISE PC 18IS45 Computer Networks ISE PC 18ISL46 Object Oriented Concepts Lab ISE PC 18ISL47 Design and Analysis of Algorithm Lab ISE HS 18HS41/42 Constitution of India Professional Ethics and Human Rights/ Env. Studies Hum/Civ MC 18HS43 Employability skills (MC) Humanities	Course and Course code Course Title Teaching Department Theory Lecture Lecture BC 18MA41 Probability, Queuing Theory and Reliability Mathematics 2 PC 18IS41 Microcontroller and Embedded Systems ISE 3 PC 18IS42 Design and Analysis of Algorithm ISE 4 PC 18IS43 Object Oriented Concepts ISE 4 PC 18IS44 Python Programming ISE 3 PC 18IS45 Computer Networks ISE 3 PC 18ISL46 Object Oriented Concepts Lab ISE PC 18ISL47 Design and Analysis of Algorithm Lab ISE PC 18ISL47 Design and Onalysis of Algorithm Lab ISE HS 18HS41/42 Constitution of India Professional Ethics and Human Rights/ Env. Studies Humanities 04	Course and Course code Course Title Teaching Department Theory Lectur ori al BC 18MA41 Probability, Queuing Theory and Reliability Mathematics 2 2 PC 18IS41 Microcontroller and Embedded Systems ISE 3 0 PC 18IS42 Design and Analysis of Algorithm ISE 4 0 PC 18IS43 Object Oriented Concepts ISE 4 0 PC 18IS44 Python Programming ISE 3 0 PC 18IS45 Computer Networks ISE 3 2 PC 18ISL46 Object Oriented Concepts Lab ISE PC 18ISL47 Design and Analysis of Algorithm Lab ISE PC 18ISL47 Design and Analysis of Algorithm Lab ISE HS 18HS41/42 Constitution of India Professional Ethics and Human Rights/ Env. Studies Hum/Civ 1 MC 18HS43 Employability skills (MC) Humanities 04	Course and Course code Course Title Teaching Department Theory Lectur ori al al vori al al vori ng Practic al vori al al vori ng BC 18MA41 Probability, Queuing Theory and Reliability Mathematics 2 2 PC 18IS41 Microcontroller and Embedded Systems ISE 3 0 PC 18IS42 Design and Analysis of Algorithm ISE 4 0 PC 18IS43 Object Oriented Concepts ISE 3 0 PC 18IS44 Python Programming ISE 3 0 PC 18IS45 Computer Networks ISE 3 2 PC 18ISL46 Object Oriented Concepts Lab ISE 3 2 PC 18ISL47 Design and Analysis of Algorithm Lab ISE 2 2 HS 18IS44 Python Programming ISE - 2 PC 18ISL47 Design	Course and Course code Course Title Course Ti	Course and Course code Course Title Course Ti	Course and Course code	Course and Course code

Mathematics

Note: HODs are informed to accommodate one more laboratory in addition to the above courses if needed, without altering the total number of credits (TOTAL: 24).

(a) The mandatory non – credit courses Advance Mathematics I and II prescribed at III and IV semesters respectively, to lateral entrant Diploma holders admitted to III semester of BE programs shall compulsorily be registered during respective semesters to complete all the formalities of the course and appear for SEE examination.

(b) The mandatory non – credit courses Advance Mathematics I and II, prescribed to lateral entrant Diploma holders admitted to III semester of BE programs, are to be completed to secure eligibility to VII semester. However, they are not considered for vertical progression from II year to III year of the programme but considered as head of passing along with credit courses of the programme to eligibility to VII semester. eligibility to VII semester.

Note: BC: Science Course, PC: Professional Core. Hu: Humanities, MC: Mandatory Course.
ENV: Environmental Studies, CIP: Constitution of India Professional Ethics and Human Rights

Advance Mathematics - II

18MAD41

MC

HEAD DEPT. OF INFORMATION SCIENCE & ENGG

Jept, of information Science & Engg. 9r. Ambedkar Institute of Technology Bangalore-560 068.

Detailed Scheme

ACADEMIC YEAR 2020-2021

Dr. Ambedkar Institute of Technology Bangalore

V-VI (2018-2022 BATCH) (175Credits)



B.E

Dr. Ambedkar Institute of Technology, Bengaluru-560 056

SCHEME OF TEACHING AND EXAMINATION from Academic Year 2020-2021

B. F. Information Science and Engineering

B.E Information Science and Engineering to Based Education (OBE) and Choice Based Credit System (CBCS)

					Teacl	ning Hours /W	eek I		Exam	ination		
SI. No		ourse and ourse code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Mark s	SEE Mark s	Total Marks	Credits
					L	T	T P					
1	Hu	18HS51/52	M&E / IPR (title as per BOS decision)	HS	3			03	50	50	100	3
2	PC	18IS51	Operating System	ISE	4	(40)	-	03	50	50	100	4
3	PC	18IS52	Web Technologies	ISE	3	2		03	50	50	100	4
4	PC	18IS53	Artificial Intelligence	ISE	4		-	03	50	50	100	4
5	PC	18IS54	Data base Management Systems	ISE	4	-		03	50	50	100	4
6	PE	18IS55X	Elective-1	ISE	3		-	03	50	50	100	3
7	PC	18ISL56	Computer Networks Lab	ISE			2	03	50	50	100	1
8	PC	18ISL57	Data base Management System Lab	ISE	##		2	03	50	50	100	1
				TOTAL	20	2	4	24	400	400	800	24

Mini-project: To be carried out during the intervening vacations of V and VI semesters. The SEE examination will be conducted during VI semester. The credit prescribed for mini – project is added to VI semester credits. The mini-project is considered as a head of passing and is considered for the award of degree. Those, who do not take-up/complete the mini-project will be declared as failed and have to complete during subsequent SEE examination after satisfy the Mini-project requirements. Also, mini-project is considered for eligibility to VII semester.

	PC: Professional Core, MC: Mandatory Course,	Electives -1	
Course code		Licetives 1	
18IS551	Internet of things		
18IS552	Unix System Programming		 7
18IS553	Information systems		TIONECUENCE & ENGO

HEAD DEPT. OF INFORMATION SCIENCE & ENGG

ospt of information Science & Engg. or, Ambedkar institute of Technology Bangalore-560 056.

Dr. Ambedkar Institute of Technology, Dengalul u-300 030 SCHEME OF TEACHING AND EXAMINATION from Academic Year 2020-2021 B.E Information Science and Engineering Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

••	T	ESTER		1	Te	aching Hours	/Week			Examination		-
SI. N	Course and Course code	Course Title	Teaching Department	Theory Lectur e	Tutorial	Practical/ Drawing	Duration in hours	CIE Mark s	SEE Marks	Total Marks	Credits	
					L	T	P				*00	3
1	Hu	18HS61/62	M&E/IPR	HS	3		-	03	50	50	100	3
2	PC	18IS61	Automata theory and complier design	ISE	3	2		03	50	50	100	4
3	PC	18IS62	Machine Learning	ISE	4			03	50	50	100	4
4	PC	18IS63	Cloud Computing	ISE	3	-		03	50	50	100	3
-				ISE	3			03	50	50	100	3
5	PE	18IS64X	Elective -2			722		03	50	50	100	3
6	OE	18ISE65X	Open Elective -A	ISE	3						100	1
7	PC	18ISL66	Machine Learning Lab	ISE	**		2	03	50	50		-
8	PC	18ISL67	Cloud Computing Lab	ISE			2	03	50	50	100	
9	MP	18ISMP68	Mini-project					03	50	50	100	3
0	INT	18ISI69	Internship	(To be carried of VI and VII s		he intervenin	g vacations			**		-
				TOTAL	19	2	4	27	450	450	900	25

Note: PC: Professional core, PE: Professional Elective, OE: Open Elective, MP: Mini-Project, INT: Internship.

Internship: All the students admitted to III year of BE have to undergo mandatory internship of 4 weeks during the vacations of VI and VII semesters and /or VII and VIII semesters. A University examination will be conducted during VIII semester and prescribed credit are added to VIII semester. Internship is considered as a head of passing and is considered for the award of degree. Those, who do not take-up/complete the internship will be declared as failed and have to complete during subsequent University examination after satisfy the internship requirements.

	Electives
Electives -2	Open Elective -A
Advanced Java and J2EE	Students can select any one of the open electives (Please refer to consolidated list of Dr AIT for open electives) offered by
Mobile Application and Development	any Department. Selection of an open elective is not allowed provided,
Network and Cyber Security	
	 The candidate has studied the same course during the previous semesters of the programme. The syllabus content of open elective is similar to that of Departmental core courses or professional electives.
	Advanced Java and J2EE Mobile Application and Development

Detailed Scheme and Syllabus

ACADEMIC YEAR 2020-2021

VII - VIII (2017-2021 BATCH) (200Credits)

Dr. Ambedkar Institute of Technology Bangalore



Academic Year 2020-2021: VII Semester SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

S. No.	Subject Code	Subject	Teaching	H	rs/week				Examinati	on
		1840/	Dept.	Lecture	Tutorial	Practi cal			Marks	
							CIE /Assig nment	SEE	Credits	Total
1	IS71	Software Architectures	ISE	04			45/5	50	4	100
2	IS72	Internet of Things	ISE	04			45/5	50	4	100
3	IS73	Big Data Analytics	ISE	04			45/5	50	4	100
4	IS74x	Elective II (Group-B)	ISE	04			45/5	50	4	100
5		Inter Departmental Elective	ISE	04			45/5	50	4	100
6	ISL75	Mobile Application Development lab	ISE			2	50	50	1	100
7	ISL76	Big Data And Analytics Lab	ISE	- 2		- 2	50	50	1	100
8	ISP77	Project Phase-I	ISE	-					-	-
79.	Total			20		04	350	350	22	700

Elective II	- Group B	Elective III - Group C	(Inter Departmental Elective)
IS741	Advanced DBMS	ISE01	Mobile Application and Develop

Mobile Application and Development Machine Learning Python Programming Object Oriented Modeling and Design Storage Area Networks C# Programming and .Net IS742 ISE02 IS743 IS744 ISE03

DEPT. OF INFORMATION SCIENCE & ENGG.

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Academic Year 2020-2021: VIII Semester SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

VIII Semester

S. No.	Subject Code	Subject	Teaching	Hr	s/week				Examination	n
			Dept.	Lecture	Tutorial	Practi cal			Marks	
							CIE /assig nment	SEE	Credits	Total
1	HS04	Intellectual Property Rights	ISE	02			45/5	50	2	100
2	IS81	Software Testing	ISE	04			45/5	50	1	100
3	IS82x	Elective IV(Group-D)	ISE	04			45/5	50	4	100
4		Inter Departmental Elective	102	04			45/5	50		-
5	ISP83	Project Phase-II	ISE	- 04					4	100
6	ISS84	Seminar	ISE				50	50	12	100
		Total	102	14			300	250	28	550

Elective IV - Group D IS821

Wireless Sensor Networks

IS822 IS823

Protocol Engineering Machine Learning

Elective V- Group E (Inter Departmental Elective)
ISE04 Web Technologies
ISE05 Artificial Intelligence

ISE05 ISE06

Java Programming

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DEPT. OF INFORMATION SCIENCE & ENGG.

Dept of Information Science & Engo. Dr. Ambedkar Institute of Technology HEAD Bangalore-560 066.

Detailed Scheme

ACADEMIC YEAR 2021-2022

Dr. Ambedkar Institute of Technology Bangalore

III - IV (2020-2024 BATCH) (175 Credits)



B.E

Dr. Ambedkar Institute of Technology, Bengaluru-560 056 SCHEME OF TEACHING AND EXAMINATION from Academic Year 2021-22 B.E INFORMATION SCIENCE AND ENGINEERING Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

	1				Teachin	g Hours/	Week		Exam	ination		
SI. No		Course and Course Code	Course Title	Teaching Department	Theo ry Lect ure	Tuto rial	Practic al/ Drawi ng	Dur atio n in hour	CIE Mar ks	SEE Mar ks	Tota 1 Mar	Credits
-					L.	T	P	•			**	
1	BC	18MA31IS	Discrete Mathematical Structures	Mathematics	2	2	_	03	50	50	100	3
2	PC	18IS31	Computer Organization and Architecture	ISE	4	0		03	50	50	100	-
3	PC	18IS32	Data Structures with C	ISE	4	0	-	03	50	50	100	*
4	PC	18IS33	Unix and Shell Programming	ISE	3	2		03	50	50	100	
5	PC	181534	Digital principles and logic design	ISE	3	0	-	03	50	50	100	
6	PC	18IS35	Software Engineering	ISE	3	0	-	03	50			3
7	PC	18ISL36	Data structure with C Lab	ISE		-	2	03	50	50	100	3
8	PC	18ISL37	Digital principles and logic design Lab	ISE		-	2	03	50	50	100	-
9	HS	18HS31/32	Constitution of India Professional Ethics and Human Rights/ / Env. Studies	Hu/Civ	1	-	-	02	50	50	100	1
10	MC	18HS33	Soft skills (MC)	Humanities	02		-		50	-	50	0
			•	TOTAL	22	04	04	26	500	450	950	24

		Cours	se prescribed to lateral entry I	Diploma holders adm	itted to	III seme	ester of I	Enginee	ring progra	ıms	
11	MC	18MAD31	Advance Mathematics - I	Mathematics	02	01	-	03	50	50	0

Note: HODs are informed to accommodate one more laboratory in addition to the above courses if needed, without altering the total number of credits (TOTAL: 24).

(a) The mandatory non — credit courses Advance Mathematics I and II prescribed at III and IV semesters respectively, to lateral entry Diploma holders admitted to III semester of BE programs shall compulsorily be registered during respective semesters to complete all the formalities of the course and appear for SEE examination.

(b) The mandatory non — credit courses Advance Mathematics I and II, prescribed to lateral entrant Diploma holders admitted to III semester of BE programs, are to be completed to secure eligibility to VII semester, they are not considered for vertical progression from II year to III year of the programme but considered as head of service along with credit courses of the programme to eligibility to VII semester.

passing along with credit courses of the programme to eligibility to VII semester

Note: BC: Science Course, PC: Professional Core. Hu: Humanities, MC: Mandatory Course.

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Dr. Ambedkar Institute of Technology, Bengaluru-56

SCHEME OF TEACHING AND EXAMINATION from Academic Year 2024-21.

B.E INFORMATION SCIENCE AND ENGINEERING
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

IV SEMESTER

					Teachi	ing Hours	Week		Exam	nination		
SI. No		Course and Course code Course Title		Teaching Department	Theory Lectur e	Tut ori al	Practic aV Drawi ng	Durat ion in hours	CIE Mark s	SEE Mark 5	Total Marks	Credi ts
					L	Т	P					
1	BC	18MA41	Probability, Queuing Theory and Reliability	Mathematics	2	2	_	03	50	50	100	3
2	PC	181541	Microcontroller and Embedded Systems	ISE	3	0		03	50	50	100	3
3	PC	18IS42	Design and Analysis of Algorithm	ISE	4	0	-	03	50	50	100	4
4	PC	18IS43	Object Oriented Concepts	ISE	4	0	**	03	50	50	100	4
5	PC	18IS44	Python Programming	ISE	3	0		03	50	50	100	3
6	PC	18IS45	Computer Networks	ISE	3	2	_	03	50	50	100	4
7	PC	18ISL46	Object Oriented Concepts Lab	ISE		1	2	03	50	50	100	45.1
8	PC	18ISL47	Design and Analysis of Algorithm Lab	ISE	-		2	03	50	50	100	-1
9	HS	18HS41/42	Constitution of India Professional Ethics and Human Rights/ Env. Studies	Hum/Civ	1	-	-	02	50	50	100	3 (
10	мс	18HS43	Employability skills (MC)	Humanities	02		-	-	50	-	50	10
-	1			TOTAL	24	04	04	26	500	450	950	24

			Course prescribed to lateral entry Diploma he	olders admitted to	II semeste	er of Er	ngineering	program	ıs		
11	мс	18MAD41	Advance Mathematics - II	Mathematics	02	01	-	03	50	50	0

Note: HODs are informed to accommodate one more laboratory in addition to the above courses if needed, without altering the total number of credits (TOTAL: 24).

(a) The mandatory non – credit courses Advance Mathematics I and II prescribed at III and IV semesters respectively, to lateral entrant Diploma holders admitted to III semester of BE programs shall compulsorily be registered during respective semesters to complete all the formalities of the course and appear for SEE examination.

(b) The mandatory non – credit courses Advance Mathematics I and II, prescribed to lateral entrant Diploma holders admitted to III semester of BE programs, are to be completed to secure eligibility to VII semester. However, they are not considered for vertical progression from II year to III year of the programme but considered as head of passing along with credit courses of the programme to eligibility to VII semester.

Note: BC: Science Course, PC: Professional Core. Hu: Humanities, MC: Mandatory Course. ENV: Environmental Studies, CIP: Constitution of India Professional Ethics and Human Rights

HEAD DEPT. OF INFORMATION SCIENCE & ENGG

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Detailed Scheme

ACADEMIC YEAR 2021-2022

Dr. Ambedkar Institute of Technology Bangalore

V - VI (2019-2023 BATCH) (175Credits)



B.E

Dr. Ambedkar Institute of Technology, Bengaluru-560 056 SCHEME OF TEACHING AND EXAMINATION from Academic Year 2021-2022 **B.E Information Science and Engineering**

Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

V SEMESTER

				228	Tea	AVeel				Examina	tion		
SI. No		Course and Course code	Course Tale	Teaching Department	Theory	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Fotal Marks	Credits
					L	Т	P	<u> </u>	٥	- S		ř	
1	IIS	18HS51	Intellectual Property Rights	Hu	3	-		03	50	50		100	3
2	PC	181851	Operating System	ISE	3			03	50	50		100	3
3	PC	181552	Web Technologies	ISE	3	2	155	03	50	50		100	4
	PC	181553	Artificial Intelligence	ISE	3	-		03	50	50		100	3
;	PC	181554	Data base Management Systems	ISE	4	-	-	03	50	50		100	4
	PE	18IS55X	Elective -1	ISE	3			03	50	50		100	3
	OE	18IS56X	Open Elective -A	ISE	3	-		03	50	50		100	3
	PC	18ISL57	Computer Networks Lab	ISE			2	03	50	50		100	1
	PC	18ISL58	Data base Management System Lab	ISE			2	03	50	50		100	1
				TOTAL	22	2	4	27	450	450		900	25

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Course code	Description 1		Electives						
1815551	Professional Electi	ves -1	Open Flastice A						
18IS552	Internet of things		Open Elective -A						
8IS553	Unix System Progra	mming							
8IS554	Object-Oriented Mo		Students can select any one of the open electives (Please refer to						
INTER-DEPAR	Open Elective -A		Selection of an open elective is not allowed provided						
	Subject Title	No. of	The candidate has studied the same course during the previous semesters of the programme.						
1815561	Machine Learning	credits 3	he syllabus content of open classics:						
18IS562	Internet of Things	3	A similar course, under any asset of electives.						
18IS563	Information Systems	3	semesters of the programme. Registration to electives shall be documented under the guidance of Programme Coordinator/ Mentor.						

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Dr. Ambedkar Institute of Technology, Bengaluru-560 056 SCHEME OF TEACHING AND EXAMINATION from Academic Year 2021-2022 B.E. Information Science and Engineering Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

I SEM	ESTER				Topol	ning Hours	/Week		Examina	tion		
Sl. No		Course and	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
				550	L.	T	P				100	3
1	HS	18HS61	Management and	Hu	3			03	50	50	100	100
	277.5760		Automata theory and compiler	ISE	3	2	-	03	50	50	100	4
2	PC	18IS61	design		1991	100		03	50	50	100	4
3	PC	18IS62	Machine Learning	ISE	4	-	-	03	50	50	100	3
4	PC	181563	Cloud Computing	ISE	3			03	50	50	100	3
5	PE	181564X	Professional Elective -2	ISE	3			***	50	50	100	3
6	OE	181S65X	Open Elective -B	ISE	3		-	03	50	50	100	1
7	PC	18ISL66	Machine Learning Lab	ISE	**		2	03	-	50	100	1
8	PC	18ISL67	Cloud Computing Lab	ISE		-	2	03	50	50	100	2
9	MP	18ISM68	Mini-project			SE		0.3	50	30	100	-
10	INT	1815169	Industry Internship	(10 be carrie vacations of	d out dur VI and V	ing the inte 'Il semeste	rvening rs.)					-
	1141		•	TOTAL	19	2	4	27	450	450	900	24
	н	1811566	Placement Training	Hu	02	1_	T -	03	50	-	50	PP/NI

Note: PC: Professional core, PE: Professional Elective, OE: Open Elective, MP: Mini-Project, INT: Internship.

Internship: All the students admitted to III year of BE have to undergo mandatory internship of 4 weeks during the vacations of VI and VII semesters and /or VII and VIII semesters. A University examination will be conducted during VIII semester and prescribed credit are added to VIII semester. Internship is considered as a head of passing and is considered for the award of degree. Those, who do not take-up/complete the internship will be declared as failed and have to complete during subsequent University examination after satisfy the internship requirements

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		Elective
Course code	Professional Electives -2	
18IS641	Advanced Java and J2EE	
18IS642	Digital Image Processing	
18IS643	Network and Cyber Security	
18IS644	Mobile Application Development	

Open Elective -B

Sub Code	Subject Title	No. of Credits
18IS651	Data Base Management System	3
18IS652	Web Technologies	3
18IS653	Unix and Shell Programming	3

Students can select any one of the open electives (Please refer to consolidated list of Dr AIT for open electives) offered by any Department.

Selection of an open elective is not allowed provided,

The candidate has studied the same course during the previous semesters of the programme.

Open Elective -B

- A similar course, under any category, is prescribed in the night series
 of the programme.
 Registration to electives shall be documented under the guidance of Programme
 Coordinator/ Mentor.

HEAD DEPT. OF INFORMATION SCIENCE & ENGG

CADH Dept of Information Sciences & English.

21. Ambedian Institute of Technology Bengolora-580 058.

Detailed Scheme and Syllabus ACADEMIC YEAR 2021-2022

VII - VIII (2018-2022 BATCH) (175Credits)

Dr. Ambedkar Institute of Technology Bangalore



Dr. Ambedkar Institute of Technology, Bengaluru-560 056

SCHEME OF TEACHING AND EXAMINATION from Academic Year 2021-2022

B.E. Information Science and Engineering

	SEMES	11.11	1		V	ng Hours /We	at 1		Examin	ation		
SL N		ourse and	Course Title	Teaching	Theory	Turnial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	r	P		50	50	100	2
1	MC	1811871/72	CMEP / OSHA	IMCV	2	44		03	50	50	100	4
2	PC	181871	Big Data Analytics	ISE	4			03			100	4
3	PC	181872		ISE	4			03	50	50		
	100		Software Testing					03	50	50	100	3
4	PE	181873X	Elective-3	ISE	3			03	50	50	100	3
5	PE	181874X	Floring-4	ISE	3	**		0,3	20		100	3
0	OE	181875N	Open- Elective C	181	3		-	03	50	50	100	1
7	PC	18181.76	Big Data Analytics	ISE			2	0.3	50	50	11650	
*:	PC	TOTAL TO	Lab				-	03	50	50	100	1
S	PC	18XXL77	Software Testing Lab				2 2					
o	Proj	ISISP78	Project Work Phase-1	ISE				03	50	50	100	2
10	INT	1818179	Internship	examin	(UlfateCompletedatletVI semester examinations, it has to be carried out during the intervening vacations of VII and VIII semesters)			03			-	-
_				TOTAL	19		4	27	450	450	900	2

Note: PC: Professional core, PE: Professional Elective, OE: Open Elective, MC: Mandatory Course, INT: Internship. Internship: All the students admitted to III year of BE have to undergo mandatory internship of 4 weeks during the vacations of VI and VII semesters and /or VII and VIII semesters. A SEE examination will be conducted during VIII semester and prescribed credits shall be added to VIII semester. Internship is considered as a head of passing and is considered for the award of degree. Those, who do not take-up/complete the internship will be declared as failed and have to complete during subsequent SEE examination after satisfy the internship requirements.

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Course	Clastica	Electives
18IS731 18IS732	Electives - 3 Artificial Neural Networks	Open Elective -B Students can select any one of the open electives (Please refer to
18IS733 18IS734	C# Programming and Net Software Architecture BlockChain Technology	consolidated list of Dr. AIT for open electives) offered by any Department.
Course Code	Electives – 4	Selection of an open elective is not allowed provided
18 5741	Storage Area Network	The candidate has studied the same course during the previous
1815742	Ethical Hacking	Schicacis
1815743	Soft and Evolutionary Computing	of the programme. The syllabus content of open elective is similar to that of Departmental core courses or professional electives.
18IS744	Deep Learning	A similar course, under any category, is prescribed in the higher semesters of the program.
Course code	Open Elective -C	Registration to electives shall be desired
1815751	Mobile Application Development	Programme Coordinator/ Mentor.
815752	Python Programming	
815753	Artificial Intelligence Management of Engg.Projects,	

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Dr. Ambedkar Institute of Technology, Bengaluru-560 056 SCHEME OF TEACHING AND EXAMINATION from Academic Year 2021-2022 B.E Information Science and Engineering

SI. No	Course and Course code		Course Title	Teaching Department	Teaching Hours / Week			Examination				-
					Theor Lectur	Tutori	Practi cal/ Drawi ng	Duration in hours	CIE	SEE Marks	Total Marks	Credits
	2	Project	18ISP81	Project Work phase-2	ISE		-	2	03	50	50	100
3	Seminar	18ISS82	Technical Seminar	ISE	-	-	2	03	50	50	100	1
4	INT	1815183	Internship	ISE	(Completed during the intervening vacations of VI and VII semesters and /or VII and VIII semester)			03	50	50	100	2
TOTAL					04		4	12	200	200	400	15

Note: INT: Internship, MC: Mandatory Course

Electives

Internship: Those, who have not pursued /completed the internship will be declared as failed and have to complete duringsubsequent SEE examination after they satisfy the internship requirements

CMEP: Cost Management of Engg Projects, OSHA: Occupational Safety and Health Administration

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