

Dr.AMBEDKAR INSTITUTE OF TECHNOLOGY
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

The Enclosed documents are verified and approved



HOD,ISE
HEAD

Dept. of Information Science & Engg.
Dr. Ambedkar Institute of Technology
Bangalore-560 099.

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.
2. Dr B.S.Shylaja, HOD, dept of ISE discussed department Vision , Mission and PEOs with BOS members : The following suggestions were made to reframe Vision 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.


HEAD
Dept of Information Science & Engg.
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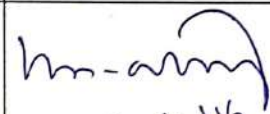

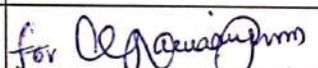

DR. AMBEDKAR INSTITUTE OF TECHNOLOGY, BANGALORE

(An Autonomous Institution, Aided by Government of Karnataka)

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	
2	Members	1. Dr. R.Prabha Assoc. Prof , Dept of ISE Dr.AIT.Bangalore	
		2. Dr. Nandini Prasad K.S Assoc.Prof , Dept of ISE Dr.AIT, Bangalore	 18/6/2016
		3. Prof.Vijayalaxmi.R.Patil Asst.Prof , Dept of ISE Dr.AIT, Bangalore	 18/6/2016
		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	 18/6/16
		6. Prof.Satish Basapur Asst. Prof, Dept of ISE Dr.AIT.Bangalore	 18/6/16

3	Subject Experts from outside the college nominated by Academic council	1 Dr. Guruprasad H.S, HOD , ISE, BMSCE, Bangalore,	ABSENT
		2. Dr. Basavaraju T G Professor and HOD Dept of CSE, Govt. SKSJ T Institute ,Bangalore	 18.6.16
		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	 18/6/16
4	Subject Experts nominated by Vice Chancellor of VTU	Dr. Arun Biradar Prof and HOD, Dept of CSE, EWIT,	ABSENT
5	Representative from Industry/corporate sector/allied area related to placement nominated academic council	1. Mr. Kavi Arasu V. Senior Manager, MindTree Consulting Bangalore	 18/04/16
		2. Mr. Aravind Srinivas Dean iON Academy , TCS Bangalore	for  SREENIVASA RAMANUJAM 18/6/16
		3. Harshini M. UI Lead-IBM Products Bangalore	 18/6/16
6	Post Graduate meritorious Alumnus nominated by Principal	1. Mr. Ravi Nandan Technova Bangalore	ABSENT



Chairperson (BOS)

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

1. 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 Programing 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.
10. 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~~ The meeting ended with working Lunch.



HOD, ISE

Dr. Ambedkar Institute of Technology
Bangalore-560 058.



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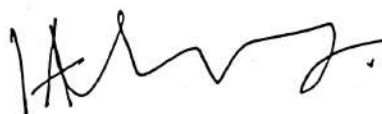




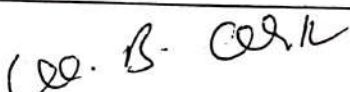
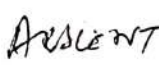


DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

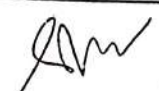
LIST OF BOS MEMBERS

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	
	Internal Members	1. Dr.Prabha.R Assoc.Prof Dept Of ISE, Dr.AIT.Bangalore	
		2. Dr.S.Nagalakshmi Assoc.Prof, Dept Of ISE, Dr.AIT.Bangalore	
		3. Dr.Nandini Prasad K.S Assoc.Prof, Dept Of ISE, Dr.AIT.Bangalore	 18/3/17
		4. Prof.Vijayalaxmi.R.Patil Asst. Prof, Dept Of ISE, Dr.AIT.Bangalore	
		5.Prof. S.Pushpalatha Asst.Prof, Dept Of ISE, Dr.AIT.Bangalore	
		6. Prof.Satish Basapur Asst.Prof, Dept Of ISE, Dr.AIT.Bangalore	
		7. Prof Jyothi.S Asst.Prof, Dept Of ISE, Dr.AIT.Bangalore	
		8.Prof. Neeta Natesh Asst.Prof, Dept Of ISE, Dr.AIT.Bangalore	

2	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	
		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, ^{HOD} Professor and Associate Dean (ES/Cluster) BMSCE, Bangalore, drbgprasad@gmail.com Mob No: 9880064699	 12/3/17
		4. Dr Ashok Kumar A R Professor RV College of Engineering Bangalore Mob No: 8497042779 Mail-ID : ashokkumarar@rvce.edu.in	
3	Subject Expert nominated by Vice Chancellor of VTU	Dr. Mohan. H.S Prof, & HOD, Dept of ISE SIBIT Bangalore Mob : 97390-99709 hsmohan@sibit.edu.in	
4	Representative from Industry/corporate sector/allied area related to placement nominated academic council	1.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	
5	Post Graduate meritorious Alumnus nominated by Principal	Sunil .Kumar B Assoc S/W Engineer TCS Email id : sunilkumarsuni1991@gmail.com Mob No: 8147840392	


Chairperson (BOS)
of Technology


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:

1. 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 .
2. 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:

1. 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

1. 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.
4. 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 semester.
- 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









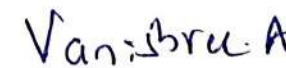
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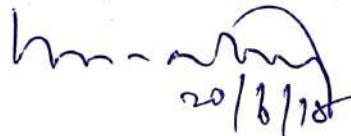

**Dept. of Information Science & Engg.
Dr. Ambedkar Institute of Technology
Bangalore-560 050.**





Department of Information Science and Engineering
List of BOS Members
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	 20/6/18
2	Internal BOS Member	Dr.Prabha.R Prof, Dept of ISE, Mob No:6362019924 heshakil@yahoo.com	
	Internal BOS Member	Mrs Vijayalaxmi.R.Patil Asst.Prof, Dept of ISE Mob No : 9844267424 vijumalghan@yahoo.co.in	
	Internal BOS Member	Mrs S.Pushpalatha Asst.Prof, Dept of ISE Mob No : 9886157588 pushpahemu@gmail.com	 20/6/18
	Internal BOS Member	Mrs Vidyarani H. J Asst.Prof, Dept of ISE Mob No : 8050284845 vidyagau@gmail.com	
	Internal BOS Member	Mrs Shilpa Biradar Asst.Prof, Dept of ISE 7022640685 shilpaiseait@gmail.com	
	Internal BOS Member	Mr Satish Basapur Asst.Prof, Dept of ISE Mob No : 9886563814 satish.basapur@gmail.com	 20/6/18.
	Internal BOS Member	Mrs Neeta Natesh Asst.Prof, Dept of ISE Mob No : 9731218666 neetha.natesh.pes@gmail.com	
	Internal BOS Member	Mrs Vanishree Abhay Asst.Prof, Dept of ISE Mob No : 9844845787 vanishreeabhay@gmail.com	 Vanishree.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	ABSENT
	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 ^{HOD} 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	 20/6/18
4	Subject Experts nominated by Vice Chancellor of VTU	Dr Mohan H S Professor, & Head, Dept ISE, SJBIT Bangalore 9739099709 hsmohan@sjbit.edu.in	 20/6/18

5	Representative from Industry/corporate sector/allied area related to placement nominated academic council	1.Mr.Manjunath Winfoware Technologies,Bangalore 9845091035 <u>manju@winfoware.com</u>	ABSENT
	Representative from Industry/corporate sector/allied area related to placement nominated academic council	2. Mruthyunjay Bidanur Mutt Manager Infosys 9916139133 mruthyunjay.bidanur.mutt@infosys.com	B.S.M.  20/6/2018
	Representative from Industry/corporate sector/allied area related to placement nominated academic council	3 Harshini M. UI Lead-IBM Products 9916736656 <u>harshini.prakash@gmail.com</u>	ABSENT
6	Post Graduate meritorious Alumnus nominated by Principal	1. Sunil .Kumar B Assoc S/W Engineer TCS 8147840392 <u>sunilkumarsuni1991@gmail.com</u>	



DR. AMBEDKAR INSTITUTE OF TECHNOLOGY, BANGALORE

(An Autonomous Institution, Aided by Government of Karnataka)

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 for it.
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 Compiler 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

19. 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


HEAD
HOD, ISE
 Dept of Information Science & Engg.
 Dr. Ambedkar Institute of Technology
 Bangalore-560 066.

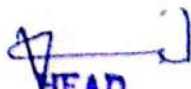
PG- COMPUTWER NETWORKENGINEERING (88- Credits)

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

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

1. Dr Ashok DV suggested to add more concepts w.r.t. security.
2. 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 .
5. Prof R C Hansdah stated that Advance Networking Lab should include containers and Dockers to experiment with networking.
6. Prof R C Hansdah suggested to refer recent O'ralley publication for secured Programming.
7. Mr Nithin G suggested to emphasise the same domain for internship and project work for PG students.
8. 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.


HEAD
HOD,ISE
Dept of Infor Science & Engg
Dr. Ambedkar Institute of Technology
Bangalore-560 058.



DR. AMBEDKAR INSTITUTE OF TECHNOLOGY, BANGALORE

(An Autonomous Institution, Aided by Government of Karnataka)



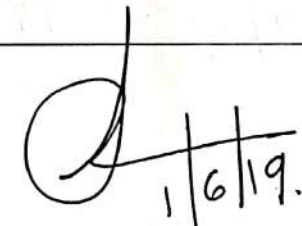
Department of Information Science and Engineering



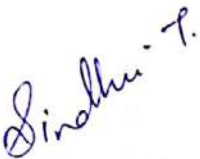

List of BOS Members

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 Dr AIT , Banguru	
II 1	Internal BOS Member	Dr.B.S.Shylaja Prof & Head of Dept ISE, Dr AIT, Bengaluru Mob No: 9538881302 shyla.au@gmail.com	 11/6/19
2	Internal BOS Member	Dr.Prabha.R Prof , Dept of ISE, Mob No:6362019924 heshakil@yahoo.com	 11/6/19
3	Internal BOS Member	Dr.Nandini Prasad K.S Prof , Dept of ISE Mob No : 9731397880 nandiniprasad.ks@dr-ait.org	 11/6/19
4	Internal BOS Member	Mrs Vijayalaxmi.R.Patil Asst.Prof, Dept of ISE Mob No : 9844267424 vijumalghan@yahoo.co.in	 11/6/19
5	Internal BOS Member	Mrs S.Pushpalatha Asst.Prof, Dept of ISE Mob No : 9886157588 pushpahemu@gmail.com	 S. Pushpalatha
6	Internal BOS Member	Mrs Vidyarani H. J Asst.Prof, Dept of ISE Mob No : 8050284845 vidyagau@gmail.com	 01/6/19
7	Internal BOS Member	Mr Satish Basapur Asst.Prof, Dept of ISE Mob No : 9886563814 satish.basapur@gmail.com	 11/6/19
8	Internal BOS Member	Mrs Neetha Natesh Asst.Prof, Dept of ISE Mob No : 9731218666 neetha.natesh.pes@gmail.com	

III.1	Subject Experts from outside the college nominated by Academic council	I. 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 in_Mobile: 9449444638	
3	Subject Experts from outside the college nominated by Academic council	Dr R. C. Hansdah Professor Associate Prof Dept of Computer Science and Automation, IISc, Bangalore Email id: hansdah@iisc.ac.in Mob No :9449838442	R. C. Hansdah 01/06/2019
4	Subject Experts from outside the college nominated by Academic council	. Dr Manjunath T N Professor & Dean (External relations)BMSIT ,Bangalore EMail-ID : manju.tn@bmsit.in Mob No:8497042779	 1/6/19
IV.1	Subject Experts nominated by Vice Chancellor of VTU	Dr Ashoka D V Professor , Dept CSE/ ISE, JSSATE ,Bangalore ashok_d_v@rediffmail.com	 1/6/19.
V.1	Representative from Industry/corporate sector/allied area related to placement nominated academic council	Mr Sreehari Vice President & Managing Director Micro Focus, Bangalore sreehari@microfocus.com 9845161447	ABSENT

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

BOS 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 hansdah@iisc.ac.in Mob No :9449838442	Yes
5		4. Dr Manjunath T N , 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

	Chancellor of VTU	Mob No: 9739760069_ 9448851159	
7	Representative from Industry/corporate sector	1.Mr Sreehari , Vice President & Managing Director Micro Focus, Bangalore sreehari@microfocus.com Mob No: 9845161447	No
8		2.Mr Prasanna B S, Software Architect , Synamedia, Bangalore Email id: pbalgar@synamedia.com , Mob No :9845363469	Yes
9		3.Mr Nithin ,CEO ,TCS iON, Bangalore Email id: nithin@i2r.co.in 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
15		4. Mrs Pushpalatha S, Asst Professor,Dept of ISE, Dr AIT, Bengaluru pushpahemu@gmail.com Mob No: 9886157588	Yes
16		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 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.V. Vijaya Kumar
 HOD, ISE Ph.D (London)
 Professor & HOD, Department of ISE
Dr. Ambedkar Institute of Technology
 Bengaluru - 560 056. Karnataka, India

ONLINE MEETING INFORMATION

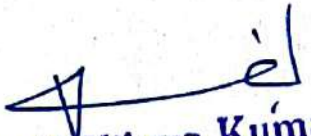
Dr.AIT Department of ISE BOS Meeting Aug-2020

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

Where Dr. Ambedkar Institute Of Technology, BDA, Outer Ring Rd, Near, Gnana Bharathi, Bengaluru, Karnataka 560056, India ([map](#))

Joining info Join with Google Meet

meet.google.com/xvm-bfye-qvf


Dr. M. V. Vijaya Kumar
HOD, ISE Ph.D (London)
Professor & HOD, Department of ISE
Dr. Ambedkar Institute of Technology
Bengaluru - 560 056. Karnataka, India

DR. AMBEDKAR INSTITUTE OF TECHNOLOGY, BANGALORE

(An Autonomous Institution, Aided by Government of Karnataka)

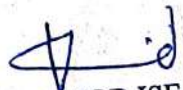
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

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

Date:14/8/2020

No	Category	Name and Designation and Address
	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 by Academic council	1.Dr. Sanjay , HOD Dept of ISE, NIITE Meenakshi ,Bangalore Email id: sanjay.ha@nmit.ac.in , Mob: 9342560303
		2. Dr. Manjajiah 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, IISc, Bengaluru Email id: hansadah@iisc.ac.in Mob No :9449838442
		4. DrManjunath T N , Professor & Dean (External relations),BMSIT ,Bangalore , EMail-ID : manju.tn@bmsit.in Mob No:8497042779
	Subject Experts nominated by Vice Chancellor of VTU	DrAshoka D V, Professor ,Dept CSE/ ISE, JSSATE ,Bangalore ashok_d_v@rediffmail.com Mob No: 9739760069,9448851159
	Representative from Industry/corporate sector	1.Mr Sreehari , Vice President & Managing Director Micro Focus, Bangalore EMail Id: sreehari@microfocus.com Mob No: 9845161447
		2.Mr Prasanna B S, Software Architect , Synamedia, Bangalore Email id: pbalgar@synamedia.com ,Mob No :9845363469,
		3.Mr Nithin,CEO ,TCS iON,Bangalore Email id: nithin@i2r.co.in Mob No: 9900785995
	Post Graduate meritorious	1.Mrs SinduT,Senior Software Developer ,Nokia , Bangalore ,

Alumnus nominated by Principal	Email id: sindhuchalam@gmail.com Sindhu.l.t@nokia.com 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
Internal BOS Members	<ol style="list-style-type: none"> 1. Dr.B.S.Shylaja, Prof, Dept of ISE, Dr AIT , Bengaluru shyla.au@gmail.com Mob No: 9538881302 2. Dr.Nandini Prasad K.S , Prof ,Dept of ISE, Dr AIT , Bengaluru nandiniprasad.ks@dr-ait.org Mob No:9731397880 3. MrsVijayalaxmi.R.Patil, Asst Prof ,Dept of ISE, Dr AIT , Bengaluru vijumalghan@yahoo.co.in Mob No : 9844267424 4. MrsS.Pushpalatha, , Asst Prof ,Dept of ISE, Dr AIT , Bengaluru pushpahemu@gmail.com Mob No: 9886157588 5. Mrs.Vidyarani H. J , Asst Prof ,Dept of ISE, Dr AIT , Bengaluru vidvagau@gmail.com Mob No: 8050284845 6. Dr.ShilpaBiradar, Asst Prof, dept of ISE, Dr AIT, Bengaluru shilpaiseait@gmail.com Mob No: 7022640685 7. Mr Satish Basapur, Asst Prof ,Dept of ISE, Dr AIT , Bengaluru satish.basapur@gmail.com Mob No:9886563814 8. MrsNeethaNatesh, Asst Prof ,Dept of ISE, Dr AIT , Bengaluru neetha.natesh.pes@gmail.com Mob No : 9731218666


HOD, ISE
HEAD

Dept of Information Science & Engg
Dr. Ambedkar Institute of Technology
Bangalore-560 058.



DR. AMBEDKAR INSTITUTE OF TECHNOLOGY, BANGALORE

(An Autonomous Institution, Aided by Government of Karnataka)

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 hansdah@iisc.ac.in Mob No :9449838442	No
5		4. Dr Manjunath T N , Professor & Dean (External relations), BMSIT ,Bangalore , manju.tn@bmsit.in Mob No:8497042779	No

6	Subject Expert nominated by Vice Chancellor of VTU	Dr Ashoka D V, Professor , Dept CSE/ ISE, JSSATE ,Bangalore ashok_d_v@rediffmail.com Mob No: 9739760069, 9448851159	Yes
7	Representative from Industry/corporate sector	1.Mr Sreehari , Vice President & Managing Director Micro Focus, Bangalore sreehari@microfocus.com Mob No: 9845161447	Yes
8		2.Mr Prasanna B S, Software Architect , Synamedia, Bangalore pbalgar@synamedia.com , Mob No :9845363469	Yes
9		3.Mr Nithin ,CEO ,TCS iON, Bangalore Email id: nithin@i2r.co.in Mob No: 9900785995	No
10	Post Graduate meritorious Alumnus nominated by Principal	1.Mrs SinduT,Senior Software Developer , Nokia , Bangalore Sindhu.1.t@nokia.com Mob No : 9738523343	No
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 shylajabs.is@drait.edu.in Mob No: 9538881302	Yes
13		2. Dr Nandini Prasad K.S, Professor, Dept of ISE, Dr AIT, Bengaluru nandini.is@drait.edu.in Mob No:9731397880	Yes
14		3. Mrs Vijayalaxmi R Patil ,Asst Professor, Dept of ISE, Dr AIT, Bengaluru vijayalaxmirp.is@drait.edu.in Mob No : 9844267424	Yes
15		4. Mrs Pushpalatha S, Asst Professor, Dept of ISE, Dr AIT, Bengaluru pushpalatha.is@drait.edu.in Mob No: 9886157588	Yes
16		5. Mrs.Vidyarani H J, Asst Professor, Dept of ISE, Dr AIT, Bengaluru vidyarani.is@drait.edu.in Mob No: 8050284845	Yes
17		6. Dr ShilpaBiradar ,Assistant Professor, Dept of ISE, Dr AIT, Bengaluru shilpab.is@drait.edu.in Mob No: 7022640685	Yes

18	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
19		8. Mrs NeethaNatesh ,Assistant Professor Dept of ISE, Dr AIT, Bengaluru neetha.is@drait.edu.in Mob No : 9731218666	Yes
20	Faculty members	1. Dr Chandrakant G Pujari, Professor Dept of ISE, Dr AIT, Bengaluru lavbangalore6@gmail.com Mob No:9845380013	Yes
		2. Mrs Vanishree Abhay Assistant Professor Dept of ISE, Dr AIT, Bengaluru vanishree.is@drait.edu.in Mob No:9844845787	Yes
		3. Mrs Jyothi. S, Assistant Professor Dept of ISE, Dr AIT, Bengaluru jyothi.is@drait.edu Mob No:90085 33887	Yes
		4. Mrs Malathi P, Assistant Professor Dept of ISE, Dr AIT, Bengaluru Malathip.is@drait.edu.in Mob No:7760880325	Yes

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 & Engg.
Dr. Ambedkar Institute of Technology
Bangalore-560 066.**

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 Dept.	Hrs/week			CIE /Assignment	Examination Marks		
				Lecture	Tutorial	Practical		SEE	Credits	Total
1	MA311S	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	IS34	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	50	50	1	100
8	ISL37	Internet Programming Lab	ISE	-		2	50	50	1	100
Total				19	02	06	400	400	23	800


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

IV SEMESTER

S. No.	Subject Code	Subject	Teaching Dept.	Hrs/week			Examination			
				Lecture	Tutorial	Practical	Marks			
							CIE /Assignment	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	04			45/5	50	4	100
4	IS43	Object Oriented Programming with C++	ISE	04			45/5	50	4	100
5	IS44	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	ISL47	Design and Analysis of Algorithms Lab	ISE			3	50	50	1.5	100
Total				22	2	6	450	450	27	900


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 Dr. Amalendu Kulkarni
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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 Dept.	Hrs/week			Examination			
				Lecture	Tutorial	Practical	Marks			
							CIE /Assignment	SEE	Credits	Total
1	IS51	Software Engineering	ISE	04			45/5	50	4	100
2	IS52	Java Programming	ISE	03			45/5	50	3	100
3	IS53	Web Technologies	ISE	03		-	45/5	50	3	100
4	IS54	Database Management Systems	ISE	03	2		45/5	50	4	100
5	IS55	Computer networks	ISE	04		-	45/5	50	4	100
6	IS56	Theory of computation	ISE	04			45/5	50	4	100
7	ISL57	Database Applications Lab	ISE			02	50	50	1	100
8	ISL58	Web Technologies Lab	ISE			02	50	50	1	100
9	ISL59	Java Programming Lab	ISE			02	50	50	1	100
Total				21	2	06	450	450	25	900


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

VI SEMESTER

S. No.	Subject Code	Subject	Teaching Dept.	Hrs/week			Examination Marks			
				Lecture	Tutorial	Practical	CIE /Assignment	SEE	Credits	Total
1	HS03	Management and Entrepreneurship	MBA	04			45/5	50	4	100
2	IS61	Java Enterprise programming	ISE	03			45/5	50	3	100
3	IS62	UNIX Systems Programming	ISE	03	2		45/5	50	4	100
4	IS63	Cloud Computing	ISE	04			45/5	50	4	100
5	IS64	Cryptography and Network Security	ISE	03			45/5	50	3	100
6	IS65x	Elective I (Group-A)	ISE	04			45/5	50	4	100
7	ISL66	Networks and Security Lab	ISE	-		3	50	50	1.5	100
8	ISL67	Java Enterprise Programming Lab	ISE	-		3	50	50	1.5	100
9	ISP68	Mini Project	ISE			2	50	50	02	100
Total				21	2	08	450	450	27	900

Elective I – Group A

IS651	Artificial Intelligence
IS652	Compiler Design
IS653	Business Intelligence
IS654	Mobile Application Development
IS655	Information Systems


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Scheme and Syllabus

ACADEMIC YEAR 2016-2017

VII - VIII (2013-2017 BATCH)

**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 Dept.	Hrs/week			Examination Marks			
				Lecture	Tutorial	Practical	CIE /Assignment	SEE	Credits	Total
1	IS71	Software Architectures	ISE	03			45/5	50	3	100
2	IS72	Cloud Computing	ISE	03			45/5	50	3	100
3	IS73	Python Programming	ISE	03			45/5	50	3	100
4	IS74	Data Mining and Data Warehousing	ISE	03			45/5	50	3	100
5	IS75x	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	-				-	-	
Total				19		06	450	450	22	900

Elective II – Group B

IS751 Advanced DBMS
IS752 Object Oriented Modeling and Design
IS753 Storage Area Networks
IS754 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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SCHEME OF TEACHING AND EXAMINATION
B.E. INFORMATION SCIENCE AND ENGINEERING

VIII SEMESTER

S. No.	Subject Code	Subject	Teaching Dept.	Hrs/week			Examination			
				Lecture	Tutorial	Practical	CIE /assignment	SEE	Credits	Total
1	HS04	Intellectual Property Rights	ISE	02			45/5	50	2	100
2	IS81	Software Testing	ISE	03			45/5	50	3	100
3	IS82x	Elective IV(Group-D)	ISE	03			45/5	50	3	100
4		Inter Departmental Elective		04			45/5	50	4	100
5	ISP83	Project Phase-II	ISE	-			50	50	12	100
6	ISS84	Seminar	ISE				50	-	2	50
Total				12			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)

ISE04 Internet Programming
ISE05 Artificial Intelligence
ISE06 Java Programming



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Detailed Scheme

ACADEMIC YEAR 2017-2018

**Dr. Ambedkar Institute of Technology
Bangalore**

III - IV (2016-2020 BATCH)





B.E

Department Of Information Science and Engineering

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


S. No.	Subject Code	Subject	Teaching Dept.	Hrs/week			Examination Marks			
				Lecture	Tutorial	Practical	CIE /Assignment	SEE	Credits	Total
1	MA311S	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	IS34	Unix and Shell Programming	ISE	03	2		45/5	50	4	100
6	ISL35	Data Structures with C Lab	ISE	-		2	50	50	1.5	100
7	ISL36	Digital principles and logic design Lab	ISE	-		2	50	50	1.5	100
8	ISL37	Mini Project	ISE	-		2	50	50	1	100
Total				18	02	08	400	400	24	800



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

S. No.	Subject Code	Subject	Teaching Dept.	Hrs/week			Examination Marks			
				Lecture	Tutorial	Practical	CIE /Assignment	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 / Python Programming	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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 Bangalore-560 050.

Scheme and Syllabus
ACADEMIC YEAR 2017-2018

V - VI (2015-2019 BATCH)


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 Dept.	Hrs/week			Examination Marks			
				Lecture	Tutorial	Practical	CIE /Assignment	SEE	Credits	Total
1	ISS1	Operating Systems	ISE	04			45/5	50	4	100
2	ISS2	Java Programming	ISE	03	2		45/5	50	4	100
3	ISS3	Web Technologies	ISE	03		-	45/5	50	3	100
4	ISS4	Database Management Systems	ISE	04			45/5	50	4	100
5	ISS5	Data Communication	ISE	03		-	45/5	50	3	100
6	ISS6	UNIX Systems Programming	ISE	04			45/5	50	4	100
7	ISL57	Database Applications Lab	ISE			02	50	50	1	100
8	ISL58	Web Technologies Lab	ISE			02	50	50	1	100
9	ISL59	Java Programming Lab (update)	ISE			02	50	50	1	100
Total				21	2	06	450	450	25	900


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Academic Year 2017-2018 : VI Semester


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

S. No.	Subject Code	Subject	Teaching Dept.	Hrs/week			Examination Marks			
				Lecture	Tutorial	Practical	CIE /Assignment	SEE	Credits	Total
1	HS03	Management and Entrepreneurship	MBA	04			45/5	50	4	100
2	IS61	Mobile Application Development	ISE	03			45/5	50	3	100
3	IS62	Theory of computation	ISE	03	2		45/5	50	4	100
4	IS63	Cloud Computing	ISE	03			45/5	50	3	100
5	IS64	Computer Networks	ISE	03			45/5	50	3	100
6	IS65x	Elective I (Group-A)	ISE	04			45/5	50	4	100
7	ISL66	Networks Lab	ISE			2	50	50	1	100
8	ISL67	Cloud computing Lab	ISE			2	45/5	50	1	100
9	ISP68	Mini Project	ISE			2	50	50	02	100
Total				21	2	08	450	450	25	900

Elective I – Group A

IS651
IS652
IS653
IS654
IS655
IS656

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


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Scheme and Syllabus

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 ENGINEERING**

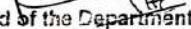
S. No.	Subject Code	Subject	Teaching Dept.	Hrs/week			Examination			
				Lecture	Tutorial	Practical	Marks			
							CIE /Assignment	SE E	Credits	Total
1	IS71	Software Architectures	ISE	04			45/5	50	4	100
2	IS72	Python Programming	ISE	03			45/5	50	3	100
3	IS73	Big Data Analytics	ISE	04			45/5	50	4	100
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	Python Programming Lab	ISE	-		3	50	50	1.5	100
7	ISL76	Cloud Computing and Big Data Lab	ISE	-		3	50	50	1.5	100
8	ISP77	Project Phase-I	ISE	-						
Total				19		06	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


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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 Dept.	Hrs/week			Examination Marks			
				Lecture	Tutorial	Practical	CIE -/assignment	SE E	Credits	Total
1	HS04	Intellectual Property Rights	ISE	02			45/5	50	2	100
2	IS81	Software Testing	ISE	03			45/5	50	4	100
3	IS82x	Elective IV(Group-D)	ISE	04			45/5	50	4	100
4		Inter Departmental Elective		04			45/5	50	4	100
5	ISP83	Project Phase-II	ISE	-			50	50	12	100
6	ISS84	Seminar	ISE				50	-	2	50
Total				13			300	250	28	550

Elective IV – Group D

- IS821 Wireless Sensor Networks
- IS822 Protocol Engineering
- ~~IS823~~ ~~Cryptography and Network security~~
- ~~IS824~~ ~~IS823~~ Machine Learning

Elective V – Group E (Inter Departmental Elective)

- ISE04 Internet Programming
- ISE05 Artificial Intelligence
- ISE06 Java Programming

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Detailed Scheme

ACADEMIC YEAR 2018-2019

**Dr. Ambedkar Institute of Technology
Bangalore**

III - IV (2017-2021 BATCH)



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 Dept.	Hrs/week			CIE /Assignment	Examination Marks		
				Lecture	Tutorial	Practical		SEE	Credits	Total
1	MA311S	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	04			45/5	50	4	100
4	IS33	Data Structures with C	ISE	04			45/5	50	4	100
5	IS34	Unix and Shell Programming	ISE	04			45/5	50	4	100
6	ISL35	Data Structures with C Lab	ISE	-		3	50	50	1.5	100
7	ISL36	Digital principles and logic design Lab	ISE	-		3	50	50	1.5	100
8	ISL37	Unix and Shell Programming Lab	ISE	-		2	50	50	1	100
Total				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

Bangalore-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 Dept.	Hrs/week			Examination			
				Lecture	Tutorial	Practical	Marks			
							CIE /Assignment	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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Detailed Scheme

ACADEMIC YEAR 2018-2019

V - VI (2016-2020 BATCH)

**Dr. Ambedkar Institute of Technology
Bangalore**



**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 Dept.	Hrs/week			Examination Marks			
				Lecture	Tutorial	Practical	CIE /Assignment	SEE	Credits	Total
1	IS51	Operating Systems	ISE	04			45/5	50	4	100
2	IS52	Java Programming	ISE	03	2		45/5	50	4	100
3	IS53	Web Technologies	ISE	03		-	45/5	50	3	100
4	IS54	Database Management Systems	ISE	04			45/5	50	4	100
5	IS55	Data communication	ISE	03		-	45/5	50	3	100
6	IS56	UNIX Systems Programming	ISE	04		-	45/5	50	4	100
7	ISL57	Database Applications Lab	ISE			02	50	50	1	100
8	ISL58	Web Technologies Lab	ISE			02	50	50	1	100
9	ISL59	Java Programming Lab	ISE			02	50	50	1	100
Total				21	2	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 Dept.	Hrs/week			Examination Marks			
				Lecture	Tutorial	Practical	CIE /Assignment	SEE	Credits	Total
1	HS03	Management and Entrepreneurship	MBA	04			45/5	50	4	100
2	IS61	Mobile Application Development	ISE	03			45/5	50	3	100
3	IS62	Theory of Computation	ISE	03	2		45/5	50	4	100
4	IS63	Cloud Computing	ISE	03			45/5	50	3	100
5	IS64	Computer Networks	ISE	03			45/5	50	3	100
6	IS65x	Elective I (Group-A)	ISE	04			45/5	50	4	100
7	ISL66	Networks Lab	ISE	-		2	50	50	1	100
8	ISL67	Cloud Computing Lab	ISE			2	45/5	50	1	100
9	ISP68	Mini Project	ISE			2	50	50	02	100
Total				20	2	06	450	450	25	900

Elective I – Group A

IS651
IS652
IS653
IS654
IS655
IS656

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



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Detailed Scheme and Syllabus
ACADEMIC YEAR 2018-2019

VII - VIII (2015-2019 BATCH)

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 Dept.	Hrs/week			Examination Marks			
				Lecture	Tutorial	Practical	CIE /Assignment	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 Lab	ISE	-		2	50	50	1	100
8	ISP77	Project Phase-I	ISE	-			-	-	-	-
Total				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


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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 Dept.	Hrs/week			Examination			
				Lecture	Tutorial	Practical	Marks			
							CIE /assignment	SEE	Credits	Total
1	HS04	Intellectual Property Rights	ISE	02			45/5	50	2	100
2	IS81	Software Testing	ISE	04			45/5	50	4	100
3	IS82x	Elective IV(Group-D)	ISE	04			45/5	50	4	100
4		Inter Departmental Elective		04			45/5	50	4	100
5	ISP83	Project Phase-II	ISE	-			50	50	12	100
6	ISS84	Seminar	ISE	-			50	-	2	50
Total				14			300	250	28	550

Elective IV – Group D

IS821 Wireless Sensor Networks
 IS822 Protocol Engineering
 IS823 Machine Learning and Applications

Elective V– Group E (Inter Departmental Elective)

ISE04 Internet Programming
 ISE05 Artificial Intelligence
 ISE06 Java Programming



HEAD

DEPT. OF INFORMATION SCIENCE & ENGG.

HEAD

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

Detailed Scheme

ACADEMIC YEAR 2019-2020

Dr. Ambedkar Institute of Technology
Bangalore

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



B.E

Department Of Information Science and Engineering

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)

III SEMESTER

Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical / Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	BC	18MA31 IS	Discrete Mathematical Structure	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	1
8	PC	18ISL37	Digital principles and logic design Lab	ISE	--	--	2	03	50	50	100	1
9	HS	18IS31/32	Constitution of India Professional Ethics and Human Rights/ Env. Studies	HS/CV	1	--	--	02	50	50	100	1
10	MC	18IS33	Soft skills (MC)	HS	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	Basic Engineering Mathematics - I	Mathematics	02	01	--	03	50		50	0
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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 eligibility to VII semester.

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

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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

Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	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	18ISL46	Object Oriented Concepts Lab	ISE	--	--	2	03	50	50	100	1
8	PC	18ISL47	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

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

II	MC	18MAD41	Basic Engineering Mathematics - II	Mathematics	02	01	--	03	50		50	0
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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, HS: Humanities, MC: Mandatory Course.
 ENV: Environmental Studies, CIP: Constitution of India Professional Ethics and Human Rights

HEAD DEPT. OF INFORMATION SCIENCE & ENGG

HEAD
 Dept of Information Science & Engg.
 Dr. Ambedkar Institute of Technology
 Bangalore-560 058.

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

S. No.	Subject Code	Subject	Teaching Dept.	Hrs/week			Examination Marks			
				Lecture	Tutorial	Practical	CIE /Assignment	SEE	Credits	Total
1	IS51	Operating Systems	ISE	04			45/5	50	4	100
2	IS52	Java Programming	ISE	03	2		45/5	50	4	100
3	IS53	Web Technologies	ISE	03		-	45/5	50	3	100
4	IS54	Database Management Systems	ISE	04			45/5	50	4	100
5	IS55	Data communication	ISE	03		-	45/5	50	3	100
6	IS56	UNIX Systems Programming	ISE	04		-	45/5	50	4	100
7	ISL57	Database Applications Lab	ISE			02	50	50	1	100
8	ISL58	Web Technologies Lab	ISE			02	50	50	1	100
9	ISL59	Java Programming Lab	ISE			02	50	50	1	100
Total				21	2	06	450	450	25	900


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 DEPT. OF INFORMATION SCIENCE & ENGG.
 Dept. of Information Science & Engg.
 Dr. Ambedkar Institute of Technology
 Bangalore-560 058.

Academic Year 2019-2020 : VI Semester

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

S. No.	Subject Code	Subject	Teaching Dept.	Hrs/week			Examination Marks			
				Lecture	Tutorial	Practical	CIE /Assignment	SEE	Credits	Total
1	HS03	Management and Entrepreneurship	MBA	04			45/5	50	4	100
2	IS61	Mobile Application Development	ISE	03			45/5	50	3	100
3	IS62	Theory of Computation	ISE	03	2		45/5	50	4	100
4	IS63	Cloud Computing	ISE	03			45/5	50	3	100
5	IS64	Computer Networks	ISE	03			45/5	50	3	100
6	IS65x	Elective I (Group-A)	ISE	04			45/5	50	4	100
7	ISL66	Networks Lab	ISE	-		2	50	50	1	100
8	ISL67	Cloud Computing Lab	ISE			2	45/5	50	1	100
9	ISP68	Mini Project	ISE			2	50	50	02	100
Total				20	2	06	450	450	25	900

Elective I – Group A

IS651
IS652
IS653
IS654
IS655
IS656

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


 HEAD
 DEPT. OF INFORMATION SCIENCE & ENGINEERING
 Dept. of Information Science & Engineering
 J. Ambedkar Institute of Technology,
 Bangalore-560 086.

Detailed Scheme and Syllabus

ACADEMIC YEAR 2019-2020

VII - VIII (2016-2020 BATCH)

(200 Credits)

**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	Teaching Dept.	Hrs/week			Examination Marks			
				Lecture	Tutorial	Practical	CIE /Assignment	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	50	50	1	100
8	ISP77	Project Phase-I	ISE	-			-	-	-	-
Total				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


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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 Dept.	Hrs/week			Examination Marks			
				Lecture	Tutorial	Practical	CIE /assignment	SEE	Credits	Total
1	IS804	Intellectual Property Rights	ISE	02			45/5	50	2	100
2	IS81	Software Testing	ISE	04			45/5	50	4	100
3	IS82x	Elective IV(Group-D)	ISE	04			45/5	50	4	100
4		Inter Departmental Elective		04			45/5	50	4	100
5	ISP83	Project Phase-II	ISE	-			50	50	12	100
6	ISS84	Seminar	ISE	-			50	-	2	50
Total				14			300	250	28	550

Elective IV – Group D

IS821 Wireless Sensor Networks
 IS822 Protocol Engineering
 IS823 Machine Learning and Applications

Elective V– Group E (Inter Departmental Elective)

ISE04 Internet Programming
 ISE05 Artificial Intelligence
 ISE06 Java Programming


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Detailed Scheme

ACADEMIC YEAR 2020-2021

**Dr. Ambedkar Institute of Technology
Bangalore**

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



B.E

Department Of Information Science and Engineering

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 (OBE) and Choice Based Credit System (CBCS)

III SEMESTER

Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
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	1
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
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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 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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Dept of Information Science & Engg.
Dr. Ambedkar Institute of Technology
Bangalore-560 056.

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 SEMESTER

Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	BC	18MA41	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	18ISL46	Object Oriented Concepts Lab	ISE	--	--	2	03	50	50	100	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	1
10	MC	18HS43	Employability 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	18MAD41	Advance Mathematics - II	Mathematics	02	01	--	03	50		50	0
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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

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Dept. of Information Science & Engg.
Dr. Ambedkar Institute of Technology
Bangalore-560 058.

Detailed Scheme

ACADEMIC YEAR 2020-2021

**Dr. Ambedkar Institute of Technology
Bangalore**

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



B.E

Department Of Information Science and Engineering

Dr. Ambedkar Institute of Technology, Bengaluru-560 056

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)

V SEMESTER

Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	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	-	--	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.

Note: Hu: Humanities, PC: Professional Core, MC: Mandatory Course,

Course code	Electives -1
18IS551	Internet of things
18IS552	Unix System Programming
18IS553	Information systems

HEAD DEPT. OF INFORMATION SCIENCE & ENGG

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Dept. of Information Science & Engg.
Dr. Ambedkar Institute of Technology
Bengaluru-560 056.

Dr. Ambedkar Institute of Technology, Bengaluru-560 050
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)

VI SEMESTER

Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	Hu	18HS61/62	M&E/IPR	HS	3	--	--	03	50	50	100	3
2	PC	18IS61	Automata theory and compiler 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
5	PE	18IS64X	Elective -2	ISE	3	--	--	03	50	50	100	3
6	OE	18ISE65X	Open Elective -A	ISE	3	--	--	03	50	50	100	3
7	PC	18ISL66	Machine Learning Lab	ISE	--	--	2	03	50	50	100	1
8	PC	18ISL67	Cloud Computing Lab	ISE	--	--	2	03	50	50	100	1
9	MP	18ISMP68	Mini-project					03	50	50	100	3
10	INT	18IS169	Internship	(To be carried out during the intervening vacations of VI and VII semesters)				--	--	--	--	--
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		
Course code	Electives -2	Open Elective -A
18IS641	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 any Department. Selection of an open elective is not allowed provided, <ul style="list-style-type: none"> 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.
18IS642	Mobile Application and Development	
18IS643	Network and Cyber Security	

Detailed Scheme and Syllabus

ACADEMIC YEAR 2020-2021

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

**Dr. Ambedkar Institute of Technology
Bangalore**



**Department Of
Information Science and Engineering**

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

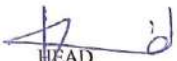
S. No.	Subject Code	Subject	Teaching Dept.	Hrs/week			Examination Marks			
				Lecture	Tutorial	Practical	CIE /Assignment	SEE	Credits	Total
1	IS71	Software Architectures	ISE	04			45/5	50	4	100
2	IS72	Internet of Things	ISE	04			45/5	50	4	100
3	IS73	Big Data Analytics	ISE	04			45/5	50	4	100
4	IS74x	Elective 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	50	50	1	100
8	ISP77	Project Phase-I	ISE	-			-	-	-	-
Total				20		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	Mobile Application and Development
ISE02	Machine Learning
ISE03	Python Programming


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

VIII Semester

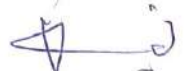
S. No.	Subject Code	Subject	Teaching Dept.	Hrs/week			Examination			
				Lecture	Tutorial	Practical	Marks			
							CIE /assignment	SEE	Credits	Total
1	HS04	Intellectual Property Rights	ISE	02			45/5	50	2	100
2	IS81	Software Testing	ISE	04			45/5	50	4	100
3	IS82x	Elective IV(Group-D)	ISE	04			45/5	50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

Elective IV – Group D

IS821 Wireless Sensor Networks
 IS822 Protocol Engineering
 IS823 Machine Learning

Elective V– Group E (Inter Departmental Elective)

ISE04 Web Technologies
 ISE05 Artificial Intelligence
 ISE06 Java Programming



HEAD

DEPT. OF INFORMATION SCIENCE & ENGG.

HEAD

Dept of Information Science & Engg.
 Dr. Ambedkar Institute of Technology
 Bangalore-560 050.

Detailed Scheme

ACADEMIC YEAR 2021-2022

**Dr. Ambedkar Institute of Technology
Bangalore**

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



B.E

Department Of Information Science and Engineering

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)

III SEMESTER

Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching (Hours/Week)			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	BC	18MA311S	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	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	--	--	--	03	50	50	100	1
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	02	--	--	--	50	--	50	0
TOTAL					22	04	04	26	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
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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 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 2024-25
B.E INFORMATION SCIENCE AND ENGINEERING
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

IV SEMESTER

Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours/Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	BC	18MA41	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	18ISL46	Object Oriented Concepts Lab	ISE	--	--	2	03	50	50	100	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	1
10	MC	18HS43	Employability skills (MC)	Humanities	02	--	--	--	50	--	50	0
TOTAL					24	04	04	26	500	450	950	24

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

11	MC	18MAD41	Advance Mathematics - II	Mathematics	02	01	--	03	50		50	0
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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, HS: Humanities, MC: Mandatory Course.
ENV: Environmental Studies, CIP: Constitution of India Professional Ethics and Human Rights

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Detailed Scheme

ACADEMIC YEAR 2021-2022

**Dr. Ambedkar Institute of Technology
Bangalore**

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



B.E

Department Of Information Science and Engineering


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

Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	HS	18HS51	Intellectual Property Rights	Hu	3	-	-	03	50	50	100	3
2	PC	18IS51	Operating System	ISE	3	-	--	03	50	50	100	3
3	PC	18IS52	Web Technologies	ISE	3	2	--	03	50	50	100	4
4	PC	18IS53	Artificial Intelligence	ISE	3	--	--	03	50	50	100	3
5	PC	18IS54	Data base Management Systems	ISE	4	--	--	03	50	50	100	4
6	PE	18IS55X	Elective -I	ISE	3	--	--	03	50	50	100	3
7	OE	18IS56X	Open Elective -A	ISE	3	--	--	03	50	50	100	3
8	PC	18ISL57	Computer Networks Lab	ISE	--	--	2	03	50	50	100	1
9	PC	18ISL58	Data base Management System Lab	ISE	--	--	2	03	50	50	100	1
TOTAL					22	2	4	27	450	450	900	25
10	HS	18HS55	Placement Training	HU	02	--	--	03	50	-	50	PP/NP

Note: HU: Humanities, PC: Professional core, MC: Mandatory Course
 PE: Professional Elective, OE: Open Elective.

Professional Electives -I		Electives	
18ISS51	Internet of things	Open Elective -A	
18ISS52	Unix System Programming	<p>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,</p> <ul style="list-style-type: none"> 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. A similar course, under any category, is prescribed in the higher semesters of the programme. <p>Registration to electives shall be documented under the guidance of Programme Coordinator/ Mentor.</p>	
18ISS53	Information systems		
18ISS54	Object-Oriented Modeling and Design		
Open Elective -A			
INTER-DEPARTMENTAL ELECTIVE OFFERED BY ISE			
Subject Code	Subject Title	No. of credits	
18ISS61	Machine Learning	3	
18ISS62	Internet of Things	3	
18ISS63	Information Systems	3	


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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)

VI SEMESTER

Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	HIS	18HIS61	Management and Entrepreneurship	Hu	3	-	--	03	50	50	100	3
2	PC	18IS61	Automata theory and compiler 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
5	PE	18IS64X	Professional Elective -2	ISE	3	--	--	03	50	50	100	3
6	OE	18IS65X	Open Elective -B	ISE	3	--	--	03	50	50	100	3
7	PC	18ISL66	Machine Learning Lab	ISE	--	--	2	03	50	50	100	1
8	PC	18ISL67	Cloud Computing Lab	ISE	--	--	2	03	50	50	100	1
9	MP	18ISM68	Mini-project	ISE				03	50	50	100	2
10	INT	18IS69	Industry Internship	(To be carried out during the intervening vacations of VI and VII semesters.)				--	--	--	--	--
TOTAL					19	2	4	27	450	450	900	24
11	HS	18HIS66	Placement Training	Hu	02	--	--	03	50	-	50	PP/NP

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		Open Elective -B												
Course code	Professional Electives -2	<p>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,</p> <ul style="list-style-type: none"> 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. A similar course, under any category, is prescribed in the higher semesters of the programme. <p>Registration to electives shall be documented under the guidance of Programme Coordinator/ Mentor.</p>												
18IS641	Advanced Java and J2EE													
18IS642	Digital Image Processing													
18IS643	Network and Cyber Security													
18IS644	Mobile Application Development													
<p style="text-align: center;">Open Elective -B INTER-DEPARTMENTAL ELECTIVE OFFERED BY ISE</p> <table border="1"> <thead> <tr> <th>Sub Code</th> <th>Subject Title</th> <th>No. of Credits</th> </tr> </thead> <tbody> <tr> <td>18IS651</td> <td>Data Base Management System</td> <td>3</td> </tr> <tr> <td>18IS652</td> <td>Web Technologies</td> <td>3</td> </tr> <tr> <td>18IS653</td> <td>Unix and Shell Programming</td> <td>3</td> </tr> </tbody> </table>		Sub Code	Subject Title	No. of Credits	18IS651	Data Base Management System	3	18IS652	Web Technologies	3	18IS653	Unix and Shell Programming	3	
Sub Code	Subject Title	No. of Credits												
18IS651	Data Base Management System	3												
18IS652	Web Technologies	3												
18IS653	Unix and Shell Programming	3												

HEAD DEPT. OF INFORMATION SCIENCE & ENGG

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Dept of Information Science & Engg.
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Detailed Scheme and Syllabus

ACADEMIC YEAR 2021-2022

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

**Dr. Ambedkar Institute of Technology
Bangalore**

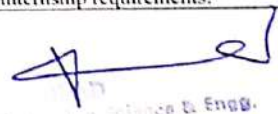


**Department Of
Information Science and Engineering**

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)

VII SEMESTER												
Sl No	Course and Course code		Course Title	Teaching Department	Teaching Hours/Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	MC	181871/72	CMET / OSHA	IMCV	2	--	--	03	50	50	100	2
2	PC	181871	Big Data Analytics	ISE	4	-	--	03	50	50	100	4
3	PC	181872	Software Testing	ISE	4	--	--	03	50	50	100	4
4	PE	181873X	Elective-3	ISE	3	--	--	03	50	50	100	3
5	PE	181874X	Elective-4	ISE	3	--	--	03	50	50	100	3
6	OE	181875X	Open-Elective C	ISE	3	--	--	03	50	50	100	3
7	PC	181876	Big Data Analytics Lab	ISE	--	--	2	03	50	50	100	1
8	PC	18XXL77	Software Testing Lab		--	--	2	03	50	50	100	1
9	Proj ect	1818P78	Project Work Phase-1	ISE	--	--	2	03	50	50	100	2
10	INT	181879	Internship	(If not completed after VI 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	23

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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Electives	
Course	Electives - 3
18IS731	Artificial Neural Networks
18IS732	C# Programming and .Net
18IS733	Software Architecture
18IS734	BlockChain Technology
Course Code	Electives - 4
18IS741	Storage Area Network
18IS742	Ethical Hacking
18IS743	Soft and Evolutionary Computing
18IS744	Deep Learning
Course code	Open Elective -C
18IS751	Mobile Application Development
18IS752	Python Programming
18IS753	Artificial Intelligence
Open Elective -B	
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,	
<ul style="list-style-type: none"> • 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. • A similar course, under any category, is prescribed in the higher semesters of the programme. 	
Registration to electives shall be documented under the guidance of Programme Coordinator/ Mentor.	
CMEP: Cost Management of Engg. Projects, OSHA: Occupational Safety and Health Administration	

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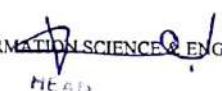
SCHEME OF TEACHING AND EXAMINATION from Academic Year 2021-2022

B.E Information Science and Engineering

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

VIII SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theor y Lectur e	Tutori al	Practi cal/ Drawi ng	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	MC	18IM81/18CV81	CMEP / OSHA	IM/CV	4	-	-	03	50	50	100	2
2	Project	18ISP81	Project Work phase-2	ISE		-	2	03	50	50	100	10
3	Seminar	18ISS82	Technical Seminar	ISE	-	-	2	03	50	50	100	1
4	INT	18IS183	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 during subsequent SEE examination after they satisfy the internship requirements CMEP: Cost Management of Engg Projects, OSHA: Occupational Safety and Health Administration												

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