

(An Autonomous Institution, Affiliated to Anna University, Chennai)
Nagore Post, Nagapattinam – 611 002, Tamilnadu.

B.E - Computer Science and Engineering

1.1.2 Details of programmes where syllabus revision was carried out during the year

2017-18

Course Name Code		Change Details	Percentage of Change	
1701MA101	Engineering Mathematics-I	New Course	100	
1701PH101	Applied Physics for Engineers	New Course	100	
1701CH101	Applied Chemistry in Informatics	New Course	100	
1701EN101	Technical English	New Course	100	
1701GEX01	Basic Electrical and Electronics Engineering	New Course	100	
	Engineering Graphics	New Course	100	
1701GEX03		New Course	100	
1701HS151	Physics and Chemistry Lab –I	New Course	100	
1701GEX51	Programming in C Lab	New Course	100	
	Engineering Mathematics-II	New Course	100	
	Physics of Engineering Materials	New Course	100	
1701CH201	Environmental Studies	New Course	100	
1701GE201	Basic Civil & Mechanical Engineering	New Course	100	
1702CS201	Programming in C++	New Course	100	
1701LE201/ 1701LE202	Communicative English/Hindi	New Course	100	
1701GEX53 Workshop Practice		New Course	100	
1701HS251	Physics and Chemistry Lab –II	New Course	100	
1702CS251	Programming in C++ Lab	New Course	100	
1701GEX52	Communication Skills Lab	New Course	100	
MA6351	Transforms and Partial Differential Equations		0	
CS6301	Programming and Data Structure II		0	
CS6302	Database Management Systems		0	
CS6303	Computer Architecture		0	
CS6304	Analog and Digital Communication		0	
GE6351	Environmental Science and Engineering		0	
CS6311	Programming and Data Structure Laboratory II		0	
CS6312	Database Management Systems Laboratory		0	
MA6453	Probability and Queueing Theory		0	
CS6551	Computer Networks		0	
CS6401	Operating Systems		0	
CS6402	Design and Analysis of Algorithms		0	
EC6504	Microprocessor and Microcontroller		0	
CS6403	Software Engineering		0	
CS6411	Networks Laboratory		0	
CS6412	Microprocessor and Microcontroller Laboratory		0	
CS6413	Operating Systems Laboratory		0	
MA6566	Discrete Mathematics		0	
CS6501	Internet Programming		0	
CS6502	Object Oriented Analysis and Design		0	



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1		Average	29.23
CS6811	Project Work		0
AG6088	Software Project Management		0
CS6010	Social Network Analysis		0
CS6801	Multi – Core Architectures and Programming		0
CS6712	Grid and Cloud Computing Laboratory		0
CS6711	Security Laboratory		- 0
EC6703	Embedded and Real Time Systems		0
T6801	Service Oriented Architecture		0
CS6704	Resource Management Techniques		0
CS6703	Grid and Cloud Computing		0
CS6702	Graph Theory and Applications		0
CS6701	Cryptography and Network Security		0
GE6674	Communication and Soft Skills - Laboratory Based		0
CS6612	Compiler Laboratory		0
CS6611	Mobile Application Development Laboratory		0
T6702	Data Warehousing and Data Mining		0
CS6659	Artificial Intelligence		0
T6502	Digital Signal Processing		0
CS6660	Compiler Design		0
T6601	Mobile Computing		0
CS6601	Distributed Systems		0
CS6513	Computer Graphics Laboratory		0
CS6512	Internet Programming Laboratory		0
CS6511	Case Tools Laboratory		0
CS6504	Computer Graphics		0
TS6503	Theory of Computation		0



(An Autonomous Institution, Affiliated to Anna University, Chennai) Nagore Post, Nagapattinam – 611 002, Tamilnadu.

Minutes of Board of Studies (BoS) Meeting

Name of the Department	Computer Science and Engineering
Name of the Programmes	B.E. Computer Science and Engineering M.E. Computer Science and Engineering
Meeting No.	01
Date & Time	08.07.2017 & 10.00 A.M.
Venue	CSE A/C Seminar Hall (SJB 108)

- 1. Chairman / BoS welcomed all members for the 1st meeting of Board of Studies.
- 2. Chairman / BoS introduced the members.
- 3. Chairman / BoS briefed the members about the Agenda.
 - To finalize the curriculum and syllabi of first and second semester B.E CSE Programme and curriculum of 1st to 4th Semesters and syllabi of first and second semester M.E. CSE Programme.
 - To finalize the curriculum of 3rd 8th Semester B.E CSE.
 - To discuss the question paper pattern for UG/PG Programme and Evaluation methodologies.
 - Any other matters.
- 4. The following are the suggestions given by the member of Board of Studies.
 - The Board of Studies members have gone through the curriculum and syllabi of first and second semester B.E. CSE and M.E. CSE programmes.
 - The Board of Studies Chairman gave a brief presentation on Vision and Mission of the Institution and the Department, PEOs, POs and the PSOs.
 - The feedback from the stakeholders of Employers, Faculty member, Alumnus, Parents, Students and other institution senior faculty members, internal senior faculty members and students and the corresponding resolutions made in the department level academic activities committee meetings discussion were presented by the Chairman of the Board.



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Nagore Post, Nagapattinam – 611 002, Tamilnadu

- In the Department level academic meeting, it is suggested to include the important courses related to improve the skills like programming courses and the curriculum designed as per the local needs of the society and the peoples requirements
- The Board of Studies Chairman agreed to offer those courses and the same accepted by the board
- Students are encouraged to complete NPTEL Courses during the 3rd or 4th year
- Students are instructed to use the modern tools, interdisciplinary and latest technology in the mini project and doing final year project
- The Board of Studies members have gone through the curriculum of 3rd = 8th Semester of B.E. CSE and 3rd and 4th Semesters of M.E. CSE programmes
- The Anna University Nominee suggested that all the mandatory courses include in the curriculum with the reference of UGC guidelines
- Discussed about the Curriculum considering the guidelines of UGC, AICTE, Premier Institutions, PEOs, POs and PSOs of the program and the views of the stakeholders
- It is recommended to put a total number of credits for B.E. CSE programme should be within 184 and for lateral entry students should be within 140

• For B.E. CSE – Undergraduate Programme

- o The Curriculum and Syllabi framed as per the Guidelines of UGC/AICTE/University/Reputed Institutions/Professional Society/Local needs and the feedback received from the stakeholders
- o Tutorial hours should be added for Mathematics courses
- o Latest versions of five references books are suggested
 - o Subjects regarding the preparation for industry readiness and GATE may be included
 - o Data Structures Lab is mandatory in the respective semester of the courses
- o Digital System and Digital Lab should be combined as Theory with Lab Component
- o Operating System should be moved to Semester III from Semester IV
 - Computer Networks and Database Management System moved to Semester IV from Semester III

- Distributed System or Distributed Computing is mandatory in either Semester V or Semester VI
- o Graph Theory can be removed since it is relevant to Discrete Mathematics
- o Compiler Design can be moved to elective list
- o System Software can be removed
- o It is recommended to include Open Source Programming, Service Oriented Architecture, Deep Learning, Data Centre Virtualization, Internet of Things in the Programme Elective
- o It is recommended to include Artificial Intelligence as open elective

• For M.E. CSE PG Programme

- o Generally in all the subjects include specific Case studies.
- o Include Internet of Things as Core subject
- o Instead of Computer Networks lab, the Operating System Design Case Studies may be included
- o Further reading is needed in all the courses
- O Simulator on tools can be added in all the lab courses
- Latest versions of references books are suggested
- o Machine Learning Technique courses should be added in First or Semester

General

- The attainment level of Course Outcomes(COs), Programme Outcomes (POs) and
 Programme Specific Outcomes (PSOs) discussed
- o It is suggested to offer Value Added Courses and One Credit Courses
- o Discussed about Students Undertaking internship, field projects, projects related
- o Discussed about the Employability Courses, Entrepreneurship and Skill development Courses were suggested by the Stakeholders.
- O Discussed the Course outcomes and Program Specific Outcomes related for each courses

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- Question Paper Pattern
 - o UG/PG Programme

Part A -10x2 = 20 Marks

Part B -5x12 = 60 Marks (Either or)

Part C - 1x20 = 20 Marks (Either or)

Total Marks = 100 Marks, Duration = 3 hours

Evaluation Methods

Theory

Practical

Continuous Assessment = 40%

Continuous Assessment = 50%

Semester Examination = 60%

Semester Examination = 50%

The accepted PSOs are shown below for approval of Academic Council,

PSO 1: The ability to apply software engineering principles and practices to design and develop software systems that meet the automation needs of industrial and societal problems

PSO 2: The ability to apply their technical skills and knowledge gained in the fields such as Artificial Intelligence, Data Science, Cloud Computing, Social Network Analysis and Mobile Application development

5. The following resolutions were passed

- It is resolved to recommend the curriculum and syllabi of first and second semester of B.E CSE and M.E CSE Programmes to the academic Council for approval.
- It is resolved to recommend the curriculum the curriculum of 3rd 8th semester B.E CSE and 3rd & 4th semester M.E programmes to the academic council for approval.
- It is resolved to recommend the question paper pattern UG/PG programmes and evaluation methodology for approval

The chairman, Board of studies thanked all the members for their valuable suggestions and coordination.

Date: 08.07.2017
Place: Nagapattiram

Chairman - BoS (CSE)

CHAIRMAN **Board of Studies** Department of Computer Science & Engineering

EGS Pillay Engineering College (Autonomous) Nagapattinam.

B.E. – Computer Science and Engineering R 2017 Full Time Curriculum and Syllabus

	SEMES	TER I							
Course	Course Name	Ι,	Т	75	C	Maxi	mum .	Marks	G 4
Code	Course Wante	L	1	P		CA	ES	Total	Category
Theory Cou	urse								
1701MA101	Engineering Mathematics-I	3	2	0	4	40	60	100	BS
1701PH101	Applied Physics for Engineers	3	0	0	3	40	60	100	BS
1701CH101	Applied Chemistry in Informatics		0	0	3	40	60	100	BS
1701EN101	Technical English	3	0	0	3	100	0	100	HSS
1701GEX01	Basic Electrical and Electronics Engineering	3	0	0	3	40	60	100	ES
1701GEX02	Engineering Graphics	2	2	0	3	50	50	100	ES
1701GEX03	Programming in C	3	0	0	3	40	60	100	ES
Laboratory	Course				1				
1701118151	Physics and Chemistry Laboratory -I	0	0	2	1	50	50	100	BS
1701GEX51	Programming in C Laboratory	0	0	2	1	50	50	100	ES
	Total				24				

	SEMES	STER II							
Course	Course Name	L	Т	-	C	Maxi	Marks	G .	
Code	Course Name	14	1	P		CA	ES	Total	Category
Theory Co	urse								
1701MA201	Engineering Mathematics-II	3	2	0	4	40	60	100	BS
1701PH201	Physics of Engineering Materials	3	0	0	3	40	60	100	BS
1701CH201	Environmental Studies	3	0	0	3	40	60	100	BS
1701GE201	Basic Civil and Mechanical Engineering	3	0	0	3	40	60	100	ES
1702CS201	Programming in C++	3	0	0	3	40	60	100	PC
1701LE201/ 1701LE202	Communicative English/Hindi	3	0	0	3	100		100	HSS
Laboratory	Course			-			41		
1701GEX53	Workshop Practice	0	0	2	1	50	50	100	ES
1701HS251	Physics and Chemistry Laboratory -II	0	0	2	1	50	50	100	BS
1702CS251	Programming in C++ Laboratory	0	0	2	1	50	50	100	PC
1701GEX52	Communication Skills Laboratory	0	0	2	1	50	50	100	HSS
	Total	-			23				

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Board of Studies Meeting

Attendance

Name of the Department

: Computer Science and Engineering

Meeting No.

: 01

Date & Time

: 08.07.2017 & 10.00 A.M.

Venue

: CSE A/C Seminar Hall

S.No	Name	Category	Signature
1	Dr.M.CHINNADURAI	Chairman	Who
2	Dr.S.MERCY SHALINIE	University Nominee	3 M Shodin
3	Dr.A.AMUTHAN		W.W
4	Dr.G.R.KARPAGAM	External Expert	(Dupagan
5	Dr.M.ARAMUDHAN	Members	W Krym
6	Mr.J.SARATH CHANDAR	Industry/	d. Sarathelander.
7	Mr.ANAND THIAGARAJAN	Corporate Sector	Muant
8	Ms.MERCY MARIA		NeryMarie
9	Mr.S.P.GOPLAN	Alumnus	MA LINE
10	Dr.T.GANESAN		Johns
11	Prof.N.MURALI	Internal Member	ALLY ali
12	Prof.K.BALASUBRAMANIAN		10. Rust

Chairman - BoS (CSE)

CHAIRMAN
Board of Studies
Department of Computer Science &
Engineering
EGS Pillay Engineering College (Autonomous)
Nagapattinam.

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E.G.S. PILLAY ENGINEERING COLLEGE

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Nagore Post, Nagapattinam – 611 002, Tamilnadu.

B.E - Computer Science and Engineering

1.1.2 Details of programmes where syllabus revision was carried out during the year

2018-19

Course Code	Course Name	Change Details	Percentage of Change	
1701MA101	Engineering Mathematics-I	Dotters	0	
1701PH101	Applied Physics for Engineers		0	
1701CH101	Applied Chemistry in Informatics		0	
1701EN101	Technical English		0	
1701GEX01	Basic Electrical and Electronics Engineering		0	
1701GEX02	Engineering Graphics		0	
1701GEX03	Programming in C		0	
1701HS151	Physics and Chemistry Lab –I		0	
1701GEX51	Programming in C Lab		0	
1701MA201	Engineering Mathematics-II		0	
1701PH201	Physics of Engineering Materials		0	
1701CH201	Environmental Studies		0	
1701GE201	Basic Civil & Mechanical Engineering		0	
1702CS201	Programming in C++		0	
1701LE201/ 1701LE202	Communicative English/Hindi		0	
1701GEX53	Workshop Practice		0	
1701HS251	Physics and Chemistry Lab –II		0	
1702CS251	Programming in C++ Lab		0	
1701GEX52	Communication Skills Lab		0	
1701MA301	Engineering Mathematics III	New Course	100	
1702CS301	Data Structures	New Course	100	
1702CS302	Computer Organization and Architecture	New Course	100	
1702CS303	Software Engineering	New Course	100	
1702CS304	Digital Systems	New Course	100	
1702CS305	Operating Systems	New Course	100	
1702CS351	Data Structures Laboratory	New Course	100	
1702CS352	Operating Systems Laboratory	New Course	100	
1704GE351			100	
1701MA401	Probability and Queuing Theory	New Course New Course	100	
1702CS401	Computer Networks	New Course	100	
1702CS402	Programming Paradigms	New Course	100	
1702CS402	Design and Analysis of Algorithms	New Course	100	
1702CS404	Microprocessors and Microcontrollers	New Course	100	



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1702CSX02	Database Management Systems	New Course	100
1701CH201	Environmental Studies	New Course	100
1702CS451	Networks Laboratory	New Course	100
1702CSX52	Database Management Systems Laboratory	New Course	100
1704GE451	Life Skills: Verbal Ability	New Course	100
MA6566	Discrete Mathematics		0
CS6501	Internet Programming		0
CS6502	Object Oriented Analysis and Design		0
CS6503	Theory of Computation		0
CS6504	Computer Graphics		0
CS6511	Case Tools Laboratory		0
CS6512	Internet Programming Laboratory		0
CS6513	Computer Graphics Laboratory		0
CS6601	Distributed Systems		0
IT6601	Mobile Computing		0
CS6660	Compiler Design		0
IT6502	Digital Signal Processing		0
CS6659	Artificial Intelligence		0
IT6702	Data Warehousing and Data Mining		0
CS6611	Mobile Application Development		0
	Laboratory		
CS6612	Compiler Laboratory		0
GE6674	Communication and Soft Skills -		0
	Laboratory		
	Based		
CS6701	Cryptography and Network Security		0
CS6702	Graph Theory and Applications		0
CS6703	Grid and Cloud Computing		0
CS6704	Resource Management Techniques		0
IT6801	Service Oriented Architecture		0
EC6703	Embedded and Real Time Systems		0
CS6711	Security Laboratory		0
CS6712	Grid and Cloud Computing Laboratory		0
CS6801	Multi – Core Architectures and		0
	Programming		
CS6010	Social Network Analysis		0
MG6088	Software Project Management		0
CS6811	Project Work		0
		Average	28.35



(An Autonomous Institution, Affiliated to Anna University, Chennai) Nagore Post, Nagapattinam – 611 002, Tamilnadu.

Minutes of Board of Studies (BoS) Meeting

Name of the Department	Computer Science and Engineering
Name of the Programmes	B.E. Computer Science and Engineering M.E. Computer Science and Engineering
Meeting No.	01
Date & Time	08.07.2017 & 10.00 A.M.
Venue	CSE A/C Seminar Hall (SJB 108)

- 1. Chairman / BoS welcomed all members for the 1st meeting of Board of Studies.
- 2. Chairman / BoS introduced the members.
- 3. Chairman / BoS briefed the members about the Agenda.
 - To finalize the curriculum and syllabi of first and second semester B.E CSE Programme and curriculum of 1st to 4th Semesters and syllabi of first and second semester M.E. CSE Programme.
 - To finalize the curriculum of 3rd 8th Semester B.E CSE.
 - To discuss the question paper pattern for UG/PG Programme and Evaluation methodologies.
 - Any other matters.
- 4. The following are the suggestions given by the member of Board of Studies.
 - The Board of Studies members have gone through the curriculum and syllabi of first and second semester B.E. CSE and M.E. CSE programmes.
 - The Board of Studies Chairman gave a brief presentation on Vision and Mission of the Institution and the Department, PEOs, POs and the PSOs.
 - The feedback from the stakeholders of Employers, Faculty member, Alumnus, Parents, Students and other institution senior faculty members, internal senior faculty members and students and the corresponding resolutions made in the department level academic activities committee meetings discussion were presented by the Chairman of the Board.



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- In the Department level academic meeting, it is suggested to include the important courses related to improve the skills like programming courses and the curriculum designed as per the local needs of the society and the peoples requirements
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- Students are instructed to use the modern tools, interdisciplinary and latest technology in the mini project and doing final year project
- The Board of Studies members have gone through the curriculum of 3rd 8th Semester of B.E. CSE and 3rd and 4th Semesters of M.E. CSE programmes
- The Anna University Nominee suggested that all the mandatory courses include in the curriculum with the reference of UGC guidelines
- Discussed about the Curriculum considering the guidelines of UGC, AICTE, Premier Institutions, PEOs, POs and PSOs of the program and the views of the stakeholders
- It is recommended to put a total number of credits for B.E. CSE programme should be within 184 and for lateral entry students should be within 140

• For B.E. CSE – Undergraduate Programme

- The Curriculum and Syllabi framed as per the Guidelines of UGC/AICTE/University/Reputed Institutions/Professional Society/Local needs and the feedback received from the stakeholders
- o Tutorial hours should be added for Mathematics courses
- o Latest versions of five references books are suggested
- o Subjects regarding the preparation for industry readiness and GATE may be included
- o Data Structures Lab is mandatory in the respective semester of the courses
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- o It is recommended to include Artificial Intelligence as open elective

• For M.E. CSE PG Programme

- o Generally in all the subjects include specific Case studies.
- o Include Internet of Things as Core subject
- Instead of Computer Networks lab, the Operating System Design Case Studies may be included
- o Further reading is needed in all the courses
- o Simulator on tools can be added in all the lab courses
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General

- The attainment level of Course Outcomes(COs), Programme Outcomes (POs) and
 Programme Specific Outcomes (PSOs) discussed
- o It is suggested to offer Value Added Courses and One Credit Courses
- O Discussed about Students Undertaking internship, field projects, projects related
- o Discussed about the Employability Courses, Entrepreneurship and Skill development Courses were suggested by the Stakeholders.
- O Discussed the Course outcomes and Program Specific Outcomes related for each courses

Question Paper Pattern

o UG/PG Programme

Part A -10x2 = 20 Marks

Part B -5x12 = 60 Marks (Either or)

Part C - 1x20 = 20 Marks (Either or)

Total Marks = 100 Marks, Duration = 3 hours

Evaluation Methods

Theory

Practical

Continuous Assessment = 40%

Continuous Assessment = 50%

Semester Examination = 60%

Semester Examination = 50%

The accepted PSOs are shown below for approval of Academic Council,

PSO 1: The ability to apply software engineering principles and practices to design and develop software systems that meet the automation needs of industrial and societal problems

PSO 2: The ability to apply their technical skills and knowledge gained in the fields such as Artificial Intelligence, Data Science, Cloud Computing, Social Network Analysis and Mobile Application development

5. The following resolutions were passed

- It is resolved to recommend the curriculum and syllabi of first and second semester of B.E CSE and M.E CSE Programmes to the academic Council for approval.
- It is resolved to recommend the curriculum the curriculum of 3rd 8th semester B.E CSE and 3rd & 4th semester M.E programmes to the academic council for approval.
- It is resolved to recommend the question paper pattern UG/PG programmes and evaluation methodology for approval

The chairman, Board of studies thanked all the members for their valuable suggestions and coordination.

Date: 08.07.2017
Place: Nagapattiram

CHAIRMAN

Board of Studies Department of Computer Science &

Engineering EGS Pillay Engineering College (Autonomous) Nagapattinam.



(An Autonomous Institution, Affiliated to Anna University, Chennal)
Nagore Post, Nagapattinam — 611 002, Tamilnadu.

Board of Studies Meeting

Attendance

Name of the Department

: Computer Science and Engineering

Meeting No.

: 01

Date & Time

: 08.07.2017 & 10.00 A.M.

Venue

: CSE A/C Seminar Hall

S.No	Name	Category	Signature
I	Dr.M.CHINNADURAI	Chairman	Who
2	Dr.S.MERCY SHALINIE	University Nominee	3 M Shodin
3	Dr.A.AMUTHAN		W.W
4	Dr.G.R.KARPAGAM	External Expert	(Dupague
5	Dr.M.ARAMUDHAN	Members	W Kym
6	Mr.J.SARATH CHANDAR	Industry/	d. Sarathehandar.
7	Mr.ANAND THIAGARAJAN	Corporate Sector	Manh
8	Ms.MERCY MARIA		Nery Name
9	Mr.S.P.GOPLAN	Alumnus	MA Low
10	Dr.T.GANESAN		1.2/2
11	Prof.N.MURALI	Internal Member	ALLY ali
12	Prof.K.BALASUBRAMANIAN		10. Rust

Chairman-BoS (CSE)

CHAIRMAN
Board of Studies
Department of Computer Science &
Engineering
EGS Pillay Engineering College (Autonomous)
Nagapattinam.

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Minutes of Board of Studies (BoS) Meeting

Name of the Department	Computer Science and Engineering
Name of the Programmes	B.E. Computer Science and Engineering M.E. Computer Science and Engineering
Meeting No.	02
Date & Time	21.04.2018 & 09.30 A.M.
Venue	CSE A/C Seminar Hall

The names of the members present in the Board of Studies are given in Annexure I.

- 1. Chairman / BoS welcomed all members for the 2nd meeting of Board of Studies.
- 2. Chairman / BoS introduced the members.
- 3. Chairman / BoS briefed the members about the Agenda.
 - Discussion and action taken about previous meeting
 - To finalize the syllabi of B.E CSE Programme from third to eight semesters and M.E. CSE Programme from third to fourth semester.
 - Any other matters.
- 4. The following are the suggestions given by the member of Board of Studies.
 - The Board of Studies members have gone through the syllabi of 3rd to 8th Semester B.E. CSE and 3rd to 4th Semester of M.E. CSE programmes.

• For B.E. CSE - Undergraduate Programme

- As per the approval of 1st Academic Council meeting, it is ensured for assessment to go for 50-50 for practical and 40-60 for theory courses.
- o It is to be ensured to have the method to calculate the GPA/CGPA.
- o It is to be ensured to go for 50-50 instead of 40-60 in Internal: External Calculation for theory cum laboratory courses.
- O It is recommended to bring forth the Life Skills, Soft Skills, English Communication and other relevant courses related to placement and to complete them by seventh semester.
- It is recommended to bring Programming Paradigms to Fourth Semester while COA to Third Semester and Computer Networks shall be pushed to next semester.

- It is recommended to bring courses such as Mobile Computing and Ad hoc Networks to electives.
- o It is recommended not to include any core courses in the eight semesters.
- o It is recommended to offer one mini project by sixth semester.
- o It is recommended to introduce comprehensive viva by Seventh Semester which facilities the competitive examination.
- o It is recommended to offer Data Mining and Data Warehousing as a professional elective.
- o It is recommended to mandate industrial visit and internship by the end of third year
- o It is necessary to include latest edition of reference books.
- Life Skills can be given with credits.
- o Each semester may be given with the average of 24 credits.
- For lateral entry students must include additionally Environmental Studies in 4th Semester.
- All the laboratory courses have to include additional experiments or innovative experiments if needed.

• For M.E. CSE Post Graduate Programme

- o Project Phase 1 may be given for industrial exposures.
- o It is ensure to publish the journal as project done by the students.
- It is recommended to include more innovative experiments in the laboratory courses.
- It is recommended to visit the industries atleast in the final year and submit the report to the department.
- o It is recommended to add the Research Methodology course in the open elective.
- o The board members are insist to participate in the Conferences once in a year.

General

- All the courses are recommended to include the course outcomes as discussed and approved in this BOS meeting.
- o Further reading can be added.
- o It is necessary to provide credit split up with allotted credits for HSS, BS, PC and PE courses in this regulation.
- o It is recommended to offer Value added courses and one credit courses.



(An Autonomous Institution, Affiliated to Anna University, Chennai) Nagore Post Naganattinam 511 002 Tamilnadu

B.E CSE and third to fourth semester of M.E CSE Programmes to the Academic Council for approval.

• H. P. 16 was ed to recommend the emission and syllable of that to eighth scares in a

The Chairman, Board of Studies thanked all the members for their valuable suggestions and coordination.

Date: 21.4.18
Place: Nagappatinan

University Nominee

Subject Expert

Industry Expert

Senior Faculty

B.E. – Computer Science and Engineering R 2017 Full Time Curriculum and Syllabus

	SEMEST	TER I							
Course	Commo Nomo	1	T	Р	C	Maximum Marks			C-4
Code	Course Name	L	T	P		CA	ES	Total	Category
Theory Cou	ırse								
1701MA101	Engineering Mathematics-I	3	2	0	4	40	60	100	BS
1701PH101	Applied Physics for Engineers	3	0	0	3	40	60	100	BS
1701CH101	Applied Chemistry in Informatics	3	0	0	3	40	60	100	BS
1701EN101	Technical English	3	0	0	3	100	0	100	HSS
1701GEX01	Basic Electrical and Electronics Engineering	3	0	0	3	40	60	100	ES
1701GEX02	Engineering Graphics	2	2	0	3	50	50	100	ES
1701GEX03	Programming in C	3	0	0	3	40	60	100	ES
Laboratory	Course								
1701HS151	Physics and Chemistry Laboratory –I	0	0	2	1	50	50	100	BS
1701GEX51	Programming in C Laboratory	-0	0	2	1	50	50	100	ES
	Total				24				

	SEMES	STER II							
Course	Course Name	L	Т	P	C	Maxi	mum]	Marks	Cotogory
Code	Course Name	L	1	P		CA	ES	Total	Category
Theory Co	urse	"			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			· · · · · · · · · · · · · · · · · · ·	
1701MA201	Engineering Mathematics-II	3	2	0	4	40	60	100	BS
1701PH201	Physics of Engineering Materials	3	0	0	3	40	60	100	BS
1701CH201	Environmental Studies	3	0	0	3	40	- 60	100	BS
1701GE201	Basic Civil and Mechanical Engineering	3	0	0	3	40	60	100	ES
1702CS201	Programming in C++	3	0	0	3	40	60	100	PC
1701LE201/	Communicative English/Hindi	3	0	0	3	100		100	HSS
1701LE202			Ů			100		100	1100
Laboratory	Course								
1701GEX53	Workshop Practice	0	0	2	1	50	50	100	ES
1701HS251	Physics and Chemistry Laboratory –II	0	0	2	1	50	50	100	BS
1702CS251	Programming in C++ Laboratory	0	0	2	1	50	50	100	PC
1701GEX52	Communication Skills Laboratory	0	0	2	1	50	50	100	HSS
	Total				23				

	SEMEST	ER II	I						
Course	Course Name	1	Т	Р	C	Maxi	Cotogo		
Code	Course Name	L	1	P		CA	ES	Total	Category
Theory Cour	se								
1701MA301	Engineering Mathematics III	3	2	0	4	40	60	100	BS
1702CS301	Data Structures	3	2	0	4	40	60	100	PC
1702CS302	Computer Organization and Architecture	3	0	0	3	40	60	100	PC
1702CS303	Software Engineering	3	0	0	3	40	60	100	PC
1702CS304	Digital Systems	3	0	2	4	50	50	100	PC
1702CS305	Operating Systems	3	0	0	3	40	60	100	PC

Laboratory C	Course								
1702CS351	Data Structures Laboratory	0	0	2	1	50	50	100	PC
1702CS352	Operating Systems Laboratory	0	0	2	1	50	50	100	PC
1704GE351	Life Skills: Soft Skills	0	0	2	1	100		100	EEC
	Total				24				

	SEM	ESTER	IV						
Course	C No.	Y	T	P	C	Maximum Marks			Catagori
Code	Course Name	L	1	P		CA	ES	Total	Category
Theory Cour	se								
1701MA401	Probability and Queuing Theory	3	2	0	4	40	60	100	BS
1702CS401	Computer Networks	3	0	0	3	40	60	100	PC
1702CS402	Programming Paradigms	3	2	0	4	40	60	100	PC
1702CS403	Design and Analysis of Algorithms	3	0	0	3	40	60	100	PC
1702CS404	Microprocessors and Microcontrollers	3	0	2	4	50	50	100	PC
1702CSX02	Database Management Systems	3	0	0	3	40	60	100	PC
1701CH201*	Environmental Studies	3	0	0	3	40	60	100	BS
Laboratory C	Course								
1702CS451	Networks Laboratory	0	0	2	1	50	50	100	PC
1702CSX52	Database Management Systems Laboratory	0	0	2	1	50	50	100	PC
1704GE451	Life Skills: Verbal Ability	0	0	2	1	100	-	100	EEC
	Total				24/27				

^{*}Applicable for Lateral Entry students

	SEMES	TER V							
Course	C N	T.	Т	P	C	Maxi	mum Marks		Catagory
Code	Course Name	L	1	P	C	CA	ES	Total	Category
Theory Cou	rse								7-11
1701MA501	Discrete Mathematics	3	2	0	4	40	60	100	BS
1702CS501	Object Oriented Analysis and Design	3	0	0	3	40	60	100	PC
1702CS502	Theory of Computation	3	2	0	4	40	60	100	PC
1702CS503	Computer Graphics and Multimedia	3	0	0	3	40	60	100	PC
1703CS002	Software Testing (Elective I)	3	0	0	3	40	60	100	PE
1703CS006	Mobile Computing(Elective II)	3	0	0	3	40	60	100	PE
Laboratory C	Course							-10	
1702CS551	Computer Graphics and Multimedia	0	0	2	1	50	50	100	PC
170200001	Laboratory								
1704CS552	CASE Tools Laboratory (Mini Project I)	0	0	2	1	50	50	100	EEC
1704CS553	Technical Seminar	0	0	2	1	100		100	EEC
1704GE551	Life Skills: Aptitude-I	0	0	2	1	100	÷	100	EEC
	Total				24				

	SEMESTE	CR VI							
Course	Constant	1	Т	P	C	Maximum M		Marks	Cata
Code	Course Name	L	-	L	C	СЛ	ES	Total	Category
Theory Cour	rse								
1701MGX01	Professional Ethics	3	0	0	3	40	60	100	HSS
1702CS601	Web Technology	3	2	0	4	40	60	100	PC
1702CS602	Artificial Intelligence	3	0	-0	3	40	60	100	PC
1702CS603	Distributed Systems	3	0	0	3	40	60	100	PC
1703CS012/17 03MG008	Data Warehousing and Data Mining/Human Rights (Elective III)	3	0	0	3	40	60	100	PE
1703CE032/17 03EC020/1703 ME011	Global Warming and Climate Change/Soft Computing/Industrial Robotics Elective IV(Open)	3	0	0	3	40	60	100	OE
Laboratory C	Course								
1702CS651	Web Technology Laboratory	0	0	2	1	50	50	100	PC
1704CS652	Mobile Application Development Laboratory (Mini Project II)	0	0	2	1	50	50	100	EEC
1704CS653	Industrial Visit Presentation	0	0	0	1	100	15	100	EEC
1704GE651	Life Skills: Aptitude-II	0	0	2	1	100	E .	100	EEC
FF 1.501	Total				23				18

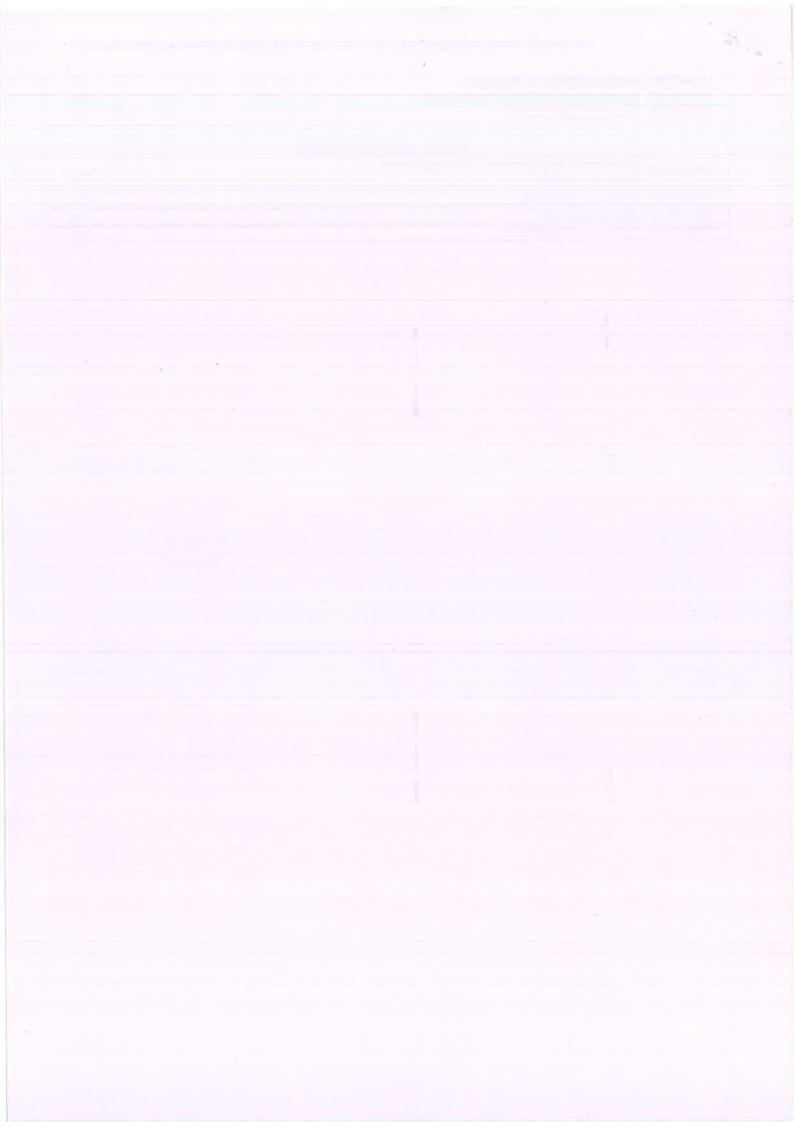
	SEMESTE	R VI	I						
Course	Co N	_	т	P		Maxi	mum Marks		Cotomorn
Code	Course Name	L	T	P		CA	ES	Total	Category
Theory Cour	se								
1702CS701	Cryptography and Network Security	3	0	0	3	40	60	100	PC
1702CS702	Software Project Management	3	0	0	3	40	60	100	PC
1702CS703	Big Data Analytics	3	0	0	3	40	60	100	PC
1702CS704	Cloud Computing	3	0	0	3	40	60	100	PC
1703CS001	Service oriented Architecture (Elective V)	3	0	0	3	40	60	100	PE
1703ED001	Startup Entrepreneurship (Elective VI(Open))	3	0	0	3	40	60	100	OE
Laboratory (Course				-				
1702CS751	Cloud Computing Laboratory	0	0	2	1	50	50	100	PC
1702CS752	Network Security Laboratory	0	0	2	1	50	50	100	PC
1704CS753	Software Development Laboratory (Mini Project III)	0	0	2	1	50	50	100	EEC
1704GE751	Life Skills: Competitive Exams Preparation	2	0	0	2	100	-	100	EEC
1704CS754	In-plant Training / Internship Presentation	0	0	0	1	100	-	100	EEC
	Total				24				

	SEMESTE	R VI	II						
Course	CN		Т	P		Maxi	Catalana		
Code	Course Name	J.	1	P		CA			Category
Theory Cour	se								
1703CS024	Bioinformatics(Elective VII)	3	0	0	3	40	60	100	PE
1703CS027	Data Centre and Virtualization (Elective VIII)	3	0	0	3	40	60	100	PE
1703CS035	Social Network Analysis (Elective IX)	3	0	0	3	40	60	100	PE
Laboratory (Course	-							
1704CS851	Project Work	0	0	18	9	50	50	100	EEC
	Total				18				

List of Programme Electives for B.E. - Computer Science and Engineering

Course	Course Name	L	Т	Р	C		mum N		Categor
Code	Course Name	L	,	P		CA	ES	Total	Categor
	ELEC	TIVE - I							
1703CS016	Wireless Communications	3	-0	0	3	40	00	100	PE
1703CS002	Software Testing	3	0	()	3	40	60	100	PE
1703CS003	Information Management	3	0	0	3	40	60	100	PE
1703CS004	C# and .NET framework	3	0	0	3	40	60	100	PE
1703CS005	Advanced Database Technology	3	0	0	3	40	60	100	PE
		ΓΙVE - II							
1703CS006	Mobile Computing	3	0	0	3	40	60	100	PE
1703CS007	Network Analysis and Management	3	0	0	3	40	60	100	PE
1703CS008	Open Source Programming	3	0	0	3	40	60	100	PE
1703CS009	Ad hoc and Sensor Networks	3	0	0	3	40	60	100	PE
1703CS010	Digital Signal Processing	3	0	0	3	40	60	100	PE
1,0505010	2.g.w. e.g.w. 11000semg								
	ELEC	TIVE - II		1					
1703CS011	Complier Design	3	0	0	3	40	60	100	PE
703MG002	Total Quality Management	3	0	0	3	40	60	100	PE
		3			3	40	60	100	PE
1703CS012	Data Warehousing and Data Mining	3	0	0	3		60	100	PE
1703CS014	Disaster Management			0		40			
1703MG008	Human Rights	3	0	0	3	40	60	100	PE
		TIVE - V			1 0	1 40 1		100	DD.
1703CS001	Service Oriented Architecture	3	0	0	3	40	60	100	PE
1703CS017	Digital Image Processing	3	0	0	3	40	60	100	PE
1703CS018	Embedded and Real Time Systems	3	0	0	3	40	60	100	PE
1703CS019	Game Programming	3	0	0	3	40	60	100	PE
1703CS020	Knowledge Management	3	0	0	3	40	60	100	PE
		TIVE - V	II						
1703CS021	Deep Learning	3	0	0	3	40	60	100	PE
1703CS022	Natural Language Processing	3	0	0	3	40	60	100	PE
1703CS023	Soft Computing	3	0	0	3	40	60	100	PE
1703CS024	Bioinformatics	3	0	0	3	40	60	100	PE
1703CS025	Human Computer Interaction	3	0	0	3	40	60	100	PE
	ELECT	TIVE - V							
1703CS026	Enterprise Resource Planning	3	0	0	3	40	60	100	PE
1703CS027	Data Centre and Virtualization	3	0	0	3	40	60	100	PE
1703CS028	Growth Hacking	3	0	0	3	40	60	100	PE
1703CS029	Information Retrieval	3	0	0	3	40	60	100	PE
1703CS030	Cyber Forensics	3	0	0	3	40	60	100	PE
	ELEC	ΓIVE - IX	Č.						
1703CS031	Internet of Things	3	0	0	3	40	60	100	PE
1703CS032	Mainframe Computing	3	0	0	3	40	60	100	PE
1703CS033	Multicore Architecture	3	0	0	3	40	60	100	PE
1703CS034	Graph Theory and Its Applications	3	0	0	3	40	60	100	PE
1703CS035	Social Network Analysis	3	0	0	3	40	60	100	PE
	OPEN	ELECTI	VE	1					
1703CS036	Database Management Systems	3	0	0	3	40	60	100	OE
1703CS037	Web Technology	3	0	0	3	40	60	100	OE
1703CS037	Operating Systems	3	0	0	3	40	60	100	OE
1703CS039	Computer Graphics and Multimedia	3	0	0	3	40	60	100	OE
1703CS037 1703CS040	Software Engineering	3	0	0	3	40	60	100	OE
1703CS040 1703CS041	Artificial Intelligence	3	0	0	3	40	60	100	OE
17030041	ONE CRE					10	1 00	100	1 01
1704CS042	Hardware and troubleshooting	DII COL	LOP	10	1				- OC
170403042	Networking Course		_		1				OC

1704CS044	Industrial Safety for Engineers		-	140	1	OC
1704CS045	Introduction to Fisheries Engineering	-	6	-	1	OC
1704CS046	Transport and Tourism	-	-	-	1	OC
	VALUE ADDED	COI	JRSI	ES		
1704CS047	Introduction to Data Centre Virtualization and Cloud Computing					VAC
1704CS048	Python Programming					VAC
1704CS049	Introduction to R					VAC
1704CS050	Python for Data Science		- 1			VAC





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B.E - Computer Science and Engineering

1.1.2 Details of programmes where syllabus revision was carried out during the year

2019-2020

Course Code	Course Name	Change Details	Percentage of Change
1901MA102	Engineering Mathematics –I	New Course	100
1901CH104	Applied Chemistry in Informatics	Revision	47
1901GEX03	Programming for Problem Solving	Revision	38
1901ENX01	English for Engineers	New Course	100
1901GEX52	Computer Programming Laboratory		0
1901GE151	Engineering Intelligence I	New Course	100
1901CHX51	Engineering Chemistry Laboratory	Revision	50
1901HSX51	Communication Skill Laboratory	Revision	5
1901MA202	Engineering Mathematics –II	New Course	100
1901PH201	Physics for Information Science	New Course	100
1901GEX01	Basic Electrical and Electronics	Revision	90
	Engineering		
1901GEX02	Engineering Graphics	New Course	0
1901GE201	Engineering Exploration	New Course	100
1901GE254	Computer Hardware and IT Essentials Lab	New Course	100
1901GE252	Engineering Intelligence - II	New Course	100
1901GEX51	CAD Lab	New Course	100
1901GEX53	Basic Electrical and Electronics	New Course	100
	Engineering Lab		
1901PHX51	Engineering Physics Lab	Revision	70
1701MA301	Engineering Mathematics III	med and re-	0
1702CS301	Data Structures	1-0 1-0	0
1702CS302	Computer Organization and Architecture	Les constitution	0
1702CS303	Software Engineering		0
1702CS304	Digital Systems	أحدب للتصب	0
1702CS305	Operating Systems	150-172-17	0
1702CS351	Data Structures Laboratory		0
1702CS352	Operating Systems Laboratory		0
1704GE351	Life Skills: Soft Skills		0
1701MA401	Probability and Queuing Theory		0
1702CS401	Computer Networks		0
1702CS402	Programming Paradigms		0
1702CS403	Design and Analysis of Algorithms		0
1702CS404	Microprocessors and Microcontrollers		0
1702CSX02	Database Management Systems		0



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1702CS451	Networks Laboratory	1-11	0
1702CSX52	Database Management Systems Laboratory		0
1704GE451	Life Skills: Verbal Ability		0
1701MA501	Discrete Mathematics	New Course	100
1702CS501	Object Oriented Analysis and Design	New Course	100
1702CS502		New Course	100
1702CS503		New Course	100
1703CS002		New Course	100
1703CS006		New Course	100
1702CS551	Computer Graphics and Multimedia Laboratory	New Course	100
1704CS552	CASE Tools Laboratory	New Course	100
1704CS553	Technical Seminar	New Course	100
1704GE551	Life Skills: Aptitude-I	New Course	100
1701MGX01	Professional Ethics	New Course	100
1702CS601	Web Technology	New Course	100
1702CS602	Artificial Intelligence	New Course	100
1702CS603	Distributed Systems	New Course	100
1703CS012/	Data Warehousing and Data	New Course	100
1703MG008	Mining/Human Rights (Elective III)		
1703CE032/	Global Warming and Climate Change/Soft	New Course	100
1703EC020/	Computing/Industrial Robotics Elective		
1703ME011	IV(Open)	family muse nyr	
1702CS651	Web Technology Laboratory	New Course	100
1704CS652	Mobile Application Development Laboratory	New Course	100
1704CS653	Industrial Visit Presentation	New Course	100
1704GE651	Life Skills: Aptitude-II	New Course	100
CS6701	Cryptography and Network Security		0
CS6702	Graph Theory and Applications		0
CS6703	Grid and Cloud Computing		0
CS6704	Resource Management Techniques		0
IT6801	Service Oriented Architecture		0
EC6703	Embedded and Real Time Systems		0
CS6711	Security Laboratory		0
CS6712	Grid and Cloud Computing Laboratory		0
CS6801	Multi – Core Architectures and Programming	والمستقير سناته	0
CS6010	Social Network Analysis		0
MG6088	Software Project Management		0
CS6811	Project Work	Teach Street Teach	0
		Average	52.94



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Minutes of Board of Studies (BoS) Meeting

Name of the Department	Computer Science and Engineering				
Name of the Programmes	B.E. Computer Science and Engineering M.E. Computer Science and Engineering				
Meeting No.	01				
Date & Time	08.07.2017 & 10.00 A.M.				
Venue	CSE A/C Seminar Hall (SJB 108)				

- 1. Chairman / BoS welcomed all members for the 1st meeting of Board of Studies.
- 2. Chairman / BoS introduced the members.
- 3. Chairman / BoS briefed the members about the Agenda.
 - To finalize the curriculum and syllabi of first and second semester B.E. CSE Programme and curriculum of 1st to 4th Semesters and syllabi of first and second semester M.E. CSE Programme.
 - To finalize the curriculum of 3rd 8th Semester B.E CSE.
 - To discuss the question paper pattern for UG/PG Programme and Evaluation methodologies.
 - Any other matters.
- 4. The following are the suggestions given by the member of Board of Studies.
 - The Board of Studies members have gone through the curriculum and syllabi of first and second semester B.E. CSE and M.E. CSE programmes.
 - The Board of Studies Chairman gave a brief presentation on Vision and Mission of the Institution and the Department, PEOs, POs and the PSOs.
 - The feedback from the stakeholders of Employers, Faculty member, Alumnus, Parents, Students and other institution senior faculty members, internal senior faculty members and students and the corresponding resolutions made in the department level academic activities committee meetings discussion were presented by the Chairman of the Board.



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- In the Department level academic meeting, it is suggested to include the important courses related to improve the skills like programming courses and the curriculum designed as per the local needs of the society and the peoples requirements
- The Board of Studies Chairman agreed to offer those courses and the same accepted by the board
- Students are encouraged to complete NPTEL Courses during the 3rd or 4th year
- Students are instructed to use the modern tools, interdisciplinary and latest technology in the mini project and doing final year project
- The Board of Studies members have gone through the curriculum of 3rd = 8th Semester of B.E. CSE and 3rd and 4th Semesters of M.E. CSE programmes
- The Anna University Nominee suggested that all the mandatory courses include in the curriculum with the reference of UGC guidelines
- Discussed about the Curriculum considering the guidelines of UGC, AICTE, Premier Institutions, PEOs, POs and PSOs of the program and the views of the stakeholders
- It is recommended to put a total number of credits for B.E. CSE programme should be within 184 and for lateral entry students should be within 140

• For B.E. CSE – Undergraduate Programme

- The Curriculum and Syllabi framed as per the Guidelines of UGC/AICTE/University/Reputed Institutions/Professional Society/Local needs and the feedback received from the stakeholders
- o Tutorial hours should be added for Mathematics courses
- o Latest versions of five references books are suggested
- Subjects regarding the preparation for industry readiness and GATE may be included
- O Data Structures Lab is mandatory in the respective semester of the courses
- o Digital System and Digital Lab should be combined as Theory with Lab Component
 - o Operating System should be moved to Semester III from Semester IV
 - o Computer Networks and Database Management System moved to Semester IV from Semester III

Question Paper Pattern

o UG / PG Programme

Part A -10x2 = 20 Marks

Part B -5x12 = 60 Marks (Either or)

Part C - 1x20 = 20 Marks (Either or)

Total Marks = 100 Marks, Duration = 3 hours

Evaluation Methods

Theory

Practical

Continuous Assessment = 40%

Continuous Assessment = 50%

Semester Examination = 60%

Semester Examination = 50%

The accepted PSOs are shown below for approval of Academic Council,

PSO 1: The ability to apply software engineering principles and practices to design and develop software systems that meet the automation needs of industrial and societal problems

PSO 2: The ability to apply their technical skills and knowledge gained in the fields such as Artificial Intelligence, Data Science, Cloud Computing, Social Network Analysis and Mobile Application development

5. The following resolutions were passed

- It is resolved to recommend the curriculum and syllabi of first and second semester of B.E CSE and M.E CSE Programmes to the academic Council for approval.
- It is resolved to recommend the curriculum the curriculum of 3rd 8th semester B.E CSE and 3rd & 4th semester M.E programmes to the academic council for approval.
- It is resolved to recommend the question paper pattern UG/PG programmes and evaluation methodology for approval

The chairman, Board of studies thanked all the members for their valuable suggestions and coordination.

Date: 08.07.2017
Place: Nagapattiram

Chairman - BoS (CSE) CHAIRMAN

Board of Studies Department of Computer Science &

Engineering EGS Pillay Engineering College (Autonomous) Nagapattinam.

- Distributed System or Distributed Computing is mandatory in either Semester V or Semester VI
- ò Graph Theory can be removed since it is relevant to Discrete Mathematics
- o Compiler Design can be moved to elective list
- o System Software can be removed
- o It is recommended to include Open Source Programming, Service Oriented Architecture, Deep Learning, Data Centre Virtualization, Internet of Things in the Programme Elective
- o It is recommended to include Artificial Intelligence as open elective

• For M.E. CSE PG Programme

- o Generally in all the subjects include specific Case studies.
- o Include Internet of Things as Core subject
- Instead of Computer Networks lab, the Operating System Design Case Studies may be included
- o Further reading is needed in all the courses
- o Simulator on tools can be added in all the lab courses
- o Latest versions of references books are suggested
- o Machine Learning Technique courses should be added in First or Semester

General

- The attainment level of Course Outcomes(COs), Programme Outcomes (POs) and
 Programme Specific Outcomes (PSOs) discussed
- o It is suggested to offer Value Added Courses and One Credit Courses
- o Discussed about Students Undertaking internship, field projects, projects related
- o Discussed about the Employability Courses, Entrepreneurship and Skill development Courses were suggested by the Stakeholders.
- Discussed the Course outcomes and Program Specific Outcomes related for each courses



F.G.S. PHI AV ENGINEERING COLLEGE

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Board of Studies Meeting

Attendance

Name of the Department

: Computer Science and Engineering

Meeting No.

: 01

Date & Time

: 08.07.2017 & 10.00 A.M.

Venue

: CSE A/C Seminar Hall

S.No	Name	Category	Signature
1	Dr.M.CHINNADURAI	Chairman	Who
2	Dr.S.MERCY SHALINIE	University Nominee	3 M Shudin
3	Dr.A.AMUTHAN	0	W.W
4	Dr.G.R.KARPAGAM	External Expert	@ Bupagene
5	Dr.M.ARAMUDHAN	Members	J. Sarathelander.
6	Mr.J.SARATH CHANDAR	Industry/	J. Sarathehandar.
7	Mr.ANAND THIAGARAJAN	Corporate Sector	Manh
8	Ms.MERCY MARIA		Newy Namie
9	Mr.S.P.GOPLAN	Alumnus	MA LIM
10	Dr.T.GANESAN		Joseph Jan
11	Prof.N.MURALI	Internal Member	elle of
12	Prof.K.BALASUBRAMANIAN		10 Rust

Chairman - BoS (CSE)

CHAIRMAN
Board of Studies
Department of Computer Science &
Engineering
EGS Pillay Engineering College (Autonomous)
Nagapattinam.

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Minutes of Board of Studies (BoS) Meeting

Name of the Department	Computer Science and Engineering
Name of the Programmes	B.E. Computer Science and Engineering M.E. Computer Science and Engineering
Meeting No.	03
Date & Time	01.03.2019 & 02.30 PM
Venue	CSE A/C Seminar Hall

The names of the members present in the Board of Studies are given in Annexure I.

- 1. Chairman / BoS welcomed all members for the 3rd meeting of Board of Studies.
- 2. Chairman / BoS introduced the members.
- 3. Chairman / BoS briefed the members about the Agenda.
 - Discussion and action taken about previous meeting
 - Academic activities and regulations.
 - Any other matters.
- 4. The following are the suggestions given by the member of Board of Studies.
 - The Chairman gave a brief presentation on recently visited Accreditation process
 and highlighted the important points.
 - Vision and Mission of the Institution and Departments, PEOs and POs were presented to the members of the Board.
 - The Chairman demonstrated the alignment of Programme Specific criteria and aligned with the vision and mission statements of the department and institutional vision and mission statements.

All the members of the committee suggested to include more skill related to latest technologies and imposite the students of the other medical including an

Board members in its to involve the students to go for internship and industrial visit to improve the industrial exposure

Board members gave a elaborative detailed description in the latest technology usage and involves students in the modern tools

Students are encouraged to solve the problems using modern tools

Resolutions:

It was resolved to incorporate the suggestions given by the BOS members.

Board of Studies recommended the above resolutions to be presented in the Academic Council for further approval.

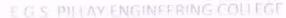
Finally the Chairman thanked all the members for their presence and valuable suggestions towards the importance of the Syllabus for the Computer Science and Engineering Board.

Date: 01.03.2019

Place: Nagapattinam

Chairman - BoS (CSE)

CHAIRMAN Board of Studies Department of Computer Science & Engineering EGS Pillay Engineering College (Autonomous) Nagapattinam.



(An Autonomous Institution, Affiliated to Anna University, Uleonan reagons Fost, Nagapartinan 1117 (No. 1001) (1005).

Board of Studies Meeting

Attendance

Name of the Department

: Computer Science and Engineering

Meeting No.

: 03

Date & Time

: 01.03.2019 & 2.30 P.M.

Venue

: CSE A/C Seminar Hall

S.No	Name	Category	Signature
1	Dr.M.CHINNADURAI	Chairman	Mars
2	Dr.S.MERCY SHALINIE	University Nominee	SMS halin
3	Dr.A.AMUTHAN	External	1. Mul 113 hay
4	Dr.G.R.KARPAGAM	Expert Members	Centralprogue
5	Dr.M.ARAMUDHAN	Wichibers	M. Audu 11319
6	Mr.J.SARATH CHANDAR	Industry/ Corporate	J. Sarath dhalm
7	Mr.ANAND THIAGARAJAN	Sector	Marth
8	Ms.MERCY MARIA	Alumnus	NewyMan
9	Mr.S.P.GOPLAN	Aldimids	MA Garl
10	Dr.T.GANESAN	to N	1-m-in
11	DrN.MURALI		DALISTAL
12	Dr.R.MANIVANNAN	Internal Member	R. Uly
13	Prof.K.KALAIVANI		far Jann'_
14	Prof.K.BALASUBRAMANIAN		6. Burst

Chairman- BoS (CSE)

CHAIRMAN

Board of Studies

Department of Computer Science & Engineering EGS Pillay Engineering College (Autonomous)

Nagapattinam.

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(An Autonomous Institution Affiliated to Anna University Chemoa-Nagore Post, Nagapatrmam - 611 002, Tamilhado.



Minutes of Board of Studies (BoS) Meeting

Name of the Department	Computer Science and Engineering
Name of the Programmes	B.E. Computer Science and Engineering M.E. Computer Science and Engineering
Meeting No.	04
Date & Time	18.05.2019&10.30 AM
Venue	CSE A/C Seminar Hall (SJB 108)

The names of the members present in the Board of Studies are given in Annexure I.

- 1. Chairman / BoS welcomed all members for the 4th meeting of Board of Studies.
- 2. Chairman / BoS introduced the members.
- 3. Chairman / BoS briefed the members about the Agenda.
 - Discussion and action taken about previous meeting
 - To finalize the curriculum and syllabi of B.E. CSE Programme under new regulations
 2019 and to review the implementation of M.E. CSE Programme
 - Any other matters.

4. The following are the suggestions given by the member of Board of Studies

- The Board of Studies members have gone through the curriculum of B.E. CSE from 1st to 8th
 Semesters and Syllabi of B.E. CSE from 1st to 4th Semester Courses
- The curriculum and syllabi framed as per the AICTE model curriculum
- Board of Studies members accepted the implementation of AICTE model curriculum, other reputed institutions and Program Specific Criteria CSE R2017, CSE curriculum for drafting the R2019 curriculum
- The Board is insisted to include the contents in the syllabus of R2019 by referring GATE
 Syllabus
- The feedback from the stakeholders viz, employers, alumni, faculty from other institutions, parent, internal faculty and students and the corresponding resolutions made in the Programme Assessment Committee (PAC) meeting were presented by the Chairman of the Board. The BOS resolved to accept the PAC resolution.

- whemed Programming course and Mobile Application Development course may be imported as a suboratory course.
- The board strictly instructed to involve the students in the online courses as per the regulations
- Mapping of the curriculum and syllabi of the proposed regulation R2019 with the program specific criteria was presented to the board of members by the Chairman and the board resolved to accept the mapping
- The components of the courses under R2019 based on having to one or more of the categories were presented to the board by the Chairman. The board resolved to accept the components
- Board of Studies Chairman has agreed to offer the courses related to research thrust areas in the Program Elective Courses
- The Basic Sciences courses are to be specific in the field of computer science field
- For Chemistry and Physics courses are to be ensured in the field of computer science field
- It is recommended to include Hardware and Troubleshooting related experiments in the laboratory courses
- The syllabus of Constitution of India is to be included in the third semester of the programme.
- As per the mandatory courses of AICTE model curriculum should be included in the curriculum
- Operating system should be moved to fourth semester and Digital system can be removed
- It is recommended to remove the credit score to the Environmental Science course.
- It is recommended to introduce new courses related to the field of Entrepreneurship skills development
- The Chairperson presented the panel of evaluators and question paper setters for valuation for approval.
- The BoS Members reviewed and approved the end semester External examiners and scrutiny members for R2019
- Discussed about the mapping of curriculum with Program Specific Criteria and board approved the same
- It is recommended the assessment questions and assessment pattern for the core and elective courses and the board approved the same

- File board analyzed the stakeholders feedback regarding the procedure and syllab under K2019 regulation
- For M E_CSE implementation of corriculum and cyllabi were discussed.

Resolutions:

It was resolved to incorporate the suggestions given by the BOS members towards the new regulations R2019 curriculum and syllabi (1st to 4th Semester) for B.E. CSE Programme and discussed about M.E. CSE review the implementation.

Board of Studies recommended the above resolutions to be presented in the Academic Council for further approval.

Finally the Chairman thanked all the members for their presence and valuable suggestions towards the improvement of the B.E. CSE R2019 Curriculum and Syllabus (1st to 4th Semester) for the Computer Science and Engineering Board.

Date: 18.05.2019

Place: Nagapattinam

Chairman – Bos (CSE)

CHAIRMAN

Board of Studies

Department of Computer Science & Engineering

EGS Pillay Engineering College (Autonomeus)

Nagapattinam.



(An Autonomous Institution, Affiliated to Anna University, Chembail Nagore Post, Nagapattinam – 611 002, Tamilhadu.

Board of Studies Meeting

Attendance

Name of the Department

: Computer Science and Engineering

Meeting No.

: 04

Date & Time

: 18.05.2019 & 10.00 A.M.

Venue

: CSE A/C Seminar Hall

S.No	Name	Category	Signature
1,	Dr.M.CHINNADURAI	Chairman	make & show
2	Dr.S.MERCY SHALINIE	University Nominee	SM Sharin
3	Dr.A.AMUTHAN		1. hu
4	Dr.G.R.KARPAGAM	External Expert Members	Gobarpagem.
5	Dr.M.ARAMUDHAN	Wiembers	M. Hulem
6	Mr.J.SARATH CHANDAR	Industry/ Corporate	Sardhchandar. S
7	Mr.ANAND THIAGARAJAN	Sector	Mharh
8	Ms.MERCY MARIA	Alumnus	MercyManie
9	Mr.S.P.GOPLAN	Atumnus	up lui.
10	Dr.T.GANESAN		7-4/3
11	DrN.MURALI		they als
12	Dr.R.MANIVANNAN	Internal Member	R.ON.
13	Prof.K.KALAIVANI		Colleire
14	Prof.K.BALASUBRAMANIAN		6. Rawht.

Board of Studies

Department of Computer Science & Engineering
EGS Pillay Engineering College (Autonomous)
Nagapattinam.

B.E. – Computer Science and Engineering 2019 Regulation: Full Time Curriculum and Syllabus

	SEMESTER I								
Course Code	CourseName	L				Maxi	Category		
			T	P	C	CA	ES	Total	
Theory Cour	se								
1901MA102	Engineering Mathematics –I (Calculus and Linear Algebra)	3	2	0	4	40	60	100	BS
1901CH104	Applied Chemistry in Informatics	3	0	0	3	40	60	100	BS
1901GEX03	Programming for Problem Solving	3	0	0	3	40	60	100	ES
1901ENX01	English for Engineers	2	0	0	2	40	60	100	BS
Laboratory (Course								
1901GEX52	Computer Programming Laboratory	0	0	2	1	50	50	100	ES
1901GE151	Engineering Intelligence I	0	0	2	1	100	0	100	HSS
1901CHX51	Engineering Chemistry Laboratory	0	0	2	1	50	50	100	BS
1901HSX51	Communication Skill Laboratory	0	0	2	1	50	50	100	BS
	Total				16				

	SEMESTE	RII								
Course Code						Max	imum	Marks	Category	
	Course Name	L	T	P	C	CA		Total		
Theory Cours	e									
1901MA202	Engineering Mathematics –II (Probability and Statistics)	3	2	0	4	40	60	100	BS	
1901PH201	Physics for Information Science	3	0	0	3	40	60	100	BS	
1901GEX01	Basic Electrical and Electronics Engineering	3	0	0	3	40	60	100	ES	
1901GEX02	Engineering Graphics	2	0	2	3	50	50	100	ES	
1901GE201	Engineering Exploration	2	0	0	2	100	0	100	ES	
	Laboratory C	ourse	1/							
1901GE254	Computer Hardware and IT Essentials Laboratory	0	0	2	1	50	50	100	ES	
1901GE252	Engineering Intelligence - II	0	0	2	1	100	0	100	HSS	
1901GEX51	CAD Laboratory	0	0	2	1	50	50	100	ES	
1901GEX53	Basic Electrical and Electronics Engineering Laboratory	0	0	2	1	50	50	100	ES	
1901PHX51	Engineering Physics Laboratory	0	0	2	1	50	50	100	BS	
	Total		÷		20					

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				11-010

	SEM	ESTI	ER II	I					
C C-d-	Carrage Nicora		T	P	C	Maxi	Marks	Catego	
Course Code	Course Name	L	T	r		CA	ES	Total	ry
Theory Course	e								
1901MA302	Engineering Mathematics III	3	2	0	4	40	60	100	BS
1902CS301	Data Structures	3	2	0	4	40	60	100	PC
1902CS302	Object Oriented Programming	3	0	0	3	40	60	100	PC
1902CS303	Computer Organization and Architecture	3	0	0	3	40	60	100	PC
1902CS304	Digital Logic and Microprocessors	3	0	2	4	40	60	100	ES
1901MCX02	Constitution of India	2	0	0	0	100	0	100	MC
Laboratory C	ourse								
1902CS351	Data Structures Laboratory	0	0	2	1	50	50	100	PC
1902CS352	Object Oriented ProgrammingLaboratory	0	0	2	1	50	50	100	PC
1904GE351	Life Skills: Soft Skills	0	0	2	1	100	-	100	EEC
	Total				21				

	SEME	STER	IV						
Course	Course Name		T	P	C	N	Categ		
Code						CA	ES	Total	ory
Theory Cour	se								
1902CS401	Software Engineering	3	0	0	3	40	60	100	PC
1902CS402	Operating System	3	0	0	3	40	60	100	PC
1902CS403	Computer Networks	3	0	0	3	40	60	100	PC
1902CS404	Design and Analysis of Algorithms	3	0	0	3	40	60	100	PC
1902CS406	Database Management Systems	3	0	0	3	40	60	100	PC
1901GEX04	Biology for Engineers	3	0	0	3	50	50	100	BS
1901MCX01	Environmental Science	2	0	0	0	100	0	100	MC
Laboratory	Course	.,	,						
1902CS451	Networks Laboratory	0	0	2	1	50	50	100	PC
1902CS452	Operating System Laboratory	0	0	2	1	50	50	100	PC
1902CS453	Database Management Systems Laboratory	0	0	2	1	50	50	100	PC
1904GE451	Life Skills: Verbal Ability	0	0	2	1	100	#	100	EEC
	Total				22				

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	SEMES	TER	V						
Course	Course Name	L	Т	P	С	N	Categ		
Code						CA	ES	Total	ory
Theory Cour	ese								
1901MA501	Discrete Mathematics	3	2	0	4	40	60	100	BS
1902CS501	Object Oriented Analysis and Design	3	0	0	3	40	60	100	PC
1902CS502	Theory of Computation	3	2	0	4	40	60	100	PC
	PC Elective I	3	0	0	3	40	60	100	PE
	HSS Elective I	3	0	0	3	40	60	100	HSSE
1901MCX03	Essence of Indian Traditional Knowledge	2	0	0	0	100	0	100	MC
Laboratory	Course								
1902CS551	CASE Tools Laboratory	0	0	2	1	50	50	100	PC
1902CS552	Mobile Application Development Laboratory	0	0	2	1	50	50	100	PC
1904GE551	Life Skills: Aptitude I	0	0	2	1	100	~	100	EEC
	Total				20				

	SEMEST	ER V	/ I						
Course	Common Name		Т	D	C	M	Catego		
Code	Course Name	L	1	P		CA	ES	Tot al	ry
Theory Co	urse								
1902CS601	Compiler Design	3	0	0	3	40	60	100	PC
1902CS602	Web Technology	3	2	0	4	40	60	100	PC
1902CS603	Artificial Intelligence	3	0	0	3	40	60	100	PC
	PC Elective II	3	0	0	3	40	60	100	PE
	HSS Elective II	3	0	0	3	40	60	100	HSSE
	Open Elective I	3	0	0	3	40	60	100	OE
Laboratory	y Course								
1902CS651	Compiler Laboratory	0	0	2	1	50	50	100	PC
1902CS652	Web Technology Laboratory	0	0	2	1	50	50	100	PC
1904CS653	Software Prototype development Lab (Mini Project 1)	0	0	2	1	50	50	100	PC
1904CS654	Industrial Visit Presentation	0	0	0	1	100		100	EEC
1904GE651	Life Skills: Aptitude II	0	0	2	1	100	-	100	EEC
-	Total				24				

	SEMES	TER	VII						
Course	Canna Nama	T	Т	P		M	Catego		
Code	Course Name	L	1	P	С	CA	ES	Tot al	ry
Theory Cou	irse			-					
1902CS701	Cloud Computing	3	0	0	3	40	60	100	PC
1902CS702	Cryptography and Network Security	3	0	0	3	40	60	100	PC
1901MG701	Universal Human Values and Ethics	3	0	0	3	40	60	100	PC
	PC Elective III	3	0	0	3	40	60	100	PE
	HSS Elective III	3	0	0	3	40	60	100	HSSE
	Open Elective II	3	0	0	3	40	60	100	OE
Laboratory	Course					•			·
1902CS751	Cloud Computing Laboratory	0	0	2	1	50	50	100	PC
1902CS752	Network Security Laboratory	0	0	2	1	50	50	100	PC
1904CS753	Software Development Laboratory (Mini Project II)	0	0	2	1	50	50	100	PC
1904GE751	Life Skills: Comprehensive Viva	2	0	0	2	100	-	100	EEC
1904GE752	In plant training/Internship	15	-	-	1	100	-	100	EEC
	Total				24				

	SEM	IESTER '	VIII							
Course						Max	imum	um Marks		
Code	Course Name	L	T	P	C	CA	ES	Total	ego ry	
Theory Co	ourse									
	PC Elective IV	3	0	0	3	40	60	100	PE	
	PC Elective V	3	0	0	3	40	60	100	PE	
Laboratory	Course				,			N/		
	Project Work	0	0	14	7	50	50	100	EEC	
	Total				13					

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PC ELECTIVE COURSES

SI. No.	Course Code	Name of the Course	of I	ımb Hou Veel	rs/	Credit
			L	T	P	
		Elective I				
1	1903CS001	Mobile Computing	3	0	0	3
2	1903CS002	Computer Graphics and Multimedia	3	0	0	3
3	1903CS003	Data Warehousing and Data Mining	3	0	0	3
4	1903CS004	Software Testing	3	0	0	3
		Elective II				
5	1903CS005	Distributed systems	3	0	0	3
6	1903CS006	OpenSource Programming	3	0	0	3
7	1903CS007	Adhoc and sensor networks	3	0	0	3
8	1903CS008	Multicore Architecture	3	0	0	3
		Elective III		*******		
9	1903CS009	Embedded and Real Time Systems	3	0	0	3
10	1903CS010	Internet of things	3	0	0	3
11	1903CS011	Digital image processing	3	0	0	3
12	1903CS012	C# and .Net Framework	3	0	0	3
		Elective IV				
13	1903CS013	Big data Analytics	3	0	0	3
14	1903CS014	Service oriented Architecture	3	0	0	3
15	1903CS015	Machine learning techniques	3	0	0	3
16	1903CS016	Natural Language Processing	3	0	0	3
		Elective V				
17	1903CS017	Information Retrieval	3	0	0	3
18	1903CS018	Cyber forensics	3	0	0	3
19	1903CS019	Data Centre and Virtualization	3	0	0	3
20	1903CS020	Bio Informatics	3	0	0	3

S.No.	Course Code	Name of the Course	Number of Hours / Week					
			L	Т	P			
		OPEN ELECTIVE COURS	SES		711	711		
21	1903CS021	Computer Networks	3	0	0	3		
22	1903CS022	Artificial Intelligence	3	0	0	3		
23	1903CS023	Database Management Systems	3	0	0	3		
24	1903CS024	Web Technology	3	0	0	3		
25	1903CS025	Data Structures	3	0	0	3		
26	1903CS026	Object oriented Programming	3	0	0	3		
27	1903CS027	Cloud Computing	3	0	0	3		
28	1903CS028	Mobile Computing	3	0	0	3		

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		ONE CREDIT COURSES				
29	1904CS001	Hardware and troubleshooting	=	2	E	1
30	1904CS002	Networking Course	-	Φ.	-	1
31	1904CS003	Industrial Safety for Engineers	-	-	-:	1
32	1904CS004	Introduction to Fisheries Engineering	-	-	-	1
33	1904CS005	Transport and Tourism	-	-		1
		VALUE ADDED COURSES			11:	
34	1904CS006	Introduction to Data Centre Virtualization and Cloud Computing				
35	1904CS007	Python Programming				
36	1904CS008	Introduction to R				
37	1904CS009	Python for Data Science				

Humanities, Social Science and Management Electives Courses

S.No.	Course Code	Name of the Course		iber o	Credit	
			L	T	P	
		Elective I				
1,	1901MGX01	Total Quality Management	3	-	-	3
2.	1901MGX02	Project Management and Finance	3	-	-	3
3	1901MGX03	Operations Research	3	-		3
4.	1901MGX04	Principles of Management	3	:	-	3
		Elective II				
1	1901HS001	Innovation & Entrepreneurship fundamentals	3	-	5.	3
2.	1901HS002	Intellectual Property Rights for Engineers	3	-	-	3
3.	1901HS003	Startup Entrepreneurship	3	Na.	-	3
4.	1901HS004	Business Model Innovation	3	-	-	3
		Elective III				
1.	1901HS005	Social Entrepreneurship	3	-	40	3
2.	1901HS006	Design Thinking for Innovation	3	-	-	3
3,	1901HS007	Indian Patent Law &Patent Drafting	3		-	3
4.	1901HS008	IP Management & Commercialization	3		-	3

B.E. – Computer Science and Engineering R 2017 Full Time Curriculum and Syllabus

	SEMEST	TER I							
Course	Canna Nama	1	Т	P	C	Maxi	mum i	Marks	Catagora
Code	Course Name	L	1	r		CA	ES	Total	Category
Theory Cou	ırse								
1701MA101	Engineering Mathematics-I	3	2	0	4	40	60	100	BS
1701PH101	Applied Physics for Engineers	3	0	0	3	40	60	100	BS
1701CH101	Applied Chemistry in Informatics	3	0	0	3	40	60	100	BS
1701EN101	Technical English	3	0	0	3	100	0	100	HSS
1701GEX01	Basic Electrical and Electronics Engineering	3	0	0	3	40	60	100	ES
1701GEX02	Engineering Graphics	2	2	0	3	50	50	100	ES
1701GEX03	Programming in C	3	0	0	3	40	60	100	ES
Laboratory	Course								
1701HS151	Physics and Chemistry Laboratory –I	0	0	2	1	50	50	100	BS
1701GEX51	Programming in C Laboratory	0	0	2	1	50	50	100	ES
	Total				24				

	SEMES	STER II							
Course	Common Norma		Т	P		Maximum Marks			Cotogorge
Code	Course Name	L	1	P	C	CA	ES	Total	Category
Theory Cou	ırse								
1701MA201	Engineering Mathematics-II	3	2	0	4	40	60	100	BS
1701PH201	Physics of Engineering Materials	3	0	0	3	40	60	100	BS
1701CH201	Environmental Studies	3	0	0	3	40	60	100	BS
1701GE201	Basic Civil and Mechanical Engineering	3	0	0	3	40	60	100	ES
1702CS201	Programming in C++	3	0	0	3	40	60	100	PC
1701LE201/ 1701LE202	Communicative English/Hindi	3	0	0	3	100		100	HSS
Laboratory	Course								ATOLE,
1701GEX53	Workshop Practice	0	0	2	1	50	50	100	ES
1701HS251	Physics and Chemistry Laboratory –II	0	0	2	1	50	50	100	BS
1702CS251	Programming in C++ Laboratory	0	0	2	1	50	50	100	PC
1701GEX52	Communication Skills Laboratory	0	0	2	1	50	50	100	HSS
	Total		7.1		23				

	SEMEST	TER II	I						
Course	Canna Nama	-	Т	Р	C	Maximum Marks			Catagora
Code	Course Name	ı,	1	Г		CA	ES	Total	Category
Theory Cour	se	""							
1701MA301	Engineering Mathematics III	3	2	0	4	40	60	100	BS
1702CS301	Data Structures	3	2	0	4	40	60	100	PC
1702CS302	Computer Organization and Architecture	3	0	0	3	40	60	100	PC
1702CS303	Software Engineering	3	0	0	3	40	60	100	PC
1702CS304	Digital Systems	3	0	2	4	50	50	100	PC
1702CS305	Operating Systems	3	0	0	3	40	60	100	PC

Laboratory C	Course								
1702CS351	Data Structures Laboratory	0	0	2	1	50	50	100	PC
1702CS352	Operating Systems Laboratory	0	0	2	1	50	50	100	PC
1704GE351	Life Skills: Soft Skills	0	0	2	1	100	-	100	EEC
	Total				24				

	SEMI	ESTER	IV						
Course	Course Name	7	Т	P	C	Maximum Marks			Category
Code	Course Name	L	1	I		CA	ES	Total	Category
Theory Cour	se								
1701MA401	Probability and Queuing Theory	3	2	0	4	40	60	100	BS
1702CS401	Computer Networks	3	0	0	3	40	60	100	PC
1702CS402	Programming Paradigms	3	2	0	4	40	60	100	PC
1702CS403	Design and Analysis of Algorithms	3	0	0	3	40	60	100	PC
1702CS404	Microprocessors and Microcontrollers	3	0	2	4	50	50	100	PC
1702CSX02	Database Management Systems	3	0	0	3	40	60	100	PC
1701CH201*	Environmental Studies	3	0	0	3	40	60	100	BS
Laboratory C	Course								
1702CS451	Networks Laboratory	0	0	2	1	50	50	100	PC
1702CSX52	Database Management Systems Laboratory	0	0	2	1 12	50	50	100	PC
1704GE451	Life Skills: Verbal Ability	0	0	2	1	100		100	EEC
	Total				24/27				

^{*}Applicable for Lateral Entry students

	SEMEST	ER V							
Course	Course Name	-	Т	P	C	Maximum		Marks	Cotogorg
Code	Course Name	L	1	r		CA	ES	Total	Category
Theory Cour	rse								
1701MA501	Discrete Mathematics	3	2	0	4	40	60	100	BS
1702CS501	Object Oriented Analysis and Design	3	0	0	3	40	60	100	PC
1702CS502	Theory of Computation	3	2	0	4	40	60	100	PC
1702CS503	Computer Graphics and Multimedia	3	0	0	3	40	60	100	PC
1703CS002	Software Testing (Elective I)	3	0	0	3	40	60	100	PE
1703CS006	Mobile Computing(Elective II)	3	0	-0	3	40	60	100	PE
Laboratory C	Course								***
1702CS551	Computer Graphics and Multimedia	0	0	2	1	50	50	100	PC
170203331	Laboratory	U	0		1	30	30	100	10
1704CS552	CASE Tools Laboratory (Mini Project I)	0	0	2	1	50	50	100	EEC
1704CS553	Technical Seminar	0	0	2	1	100	21	100	EEC
1704GE551	Life Skills: Aptitude-I	0	0	2	1	100	90	100	EEC
	Total				24	11			

	SEMESTE	CR VI							
Course	Causas Nama	L	Т	Р	C	Maximum Marks			Catagora
Code	Course Name	L		r		CA	ES	Total	Category
Theory Cour	rse								
1701MGX01	Professional Ethics	3	0	0	3	40	60	100	HSS
1702CS601	Web Technology	3	2	0	4	40	60	100	PC
1702CS602	Artificial Intelligence	3	0	0	3	40	60	100	PC
1702CS603	Distributed Systems	3	0	0	3	40	60	100	PC
1703CS012/17 03MG008	Data Warehousing and Data Mining/Human Rights (Elective III)	3	0	0	3	40	60	100	PE
1703CE032/17 03EC020/1703 ME011	Global Warming and Climate Change/Soft Computing/Industrial Robotics Elective IV(Open)	3	0	0	3	40	60	100	OE
Laboratory C	Course								
1702CS651	Web Technology Laboratory	0	0	2	1	50	50	100	PC
1704CS652	Mobile Application Development Laboratory (Mini Project II)	0	0	2	1	50	50	100	EEC
1704CS653	Industrial Visit Presentation	0	0	0	1	100	78	100	EEC
1704GE651	Life Skills: Aptitude-II	0	0	2	1	100	-	100	EEC
Tel Burn	Total				23			1	the state of

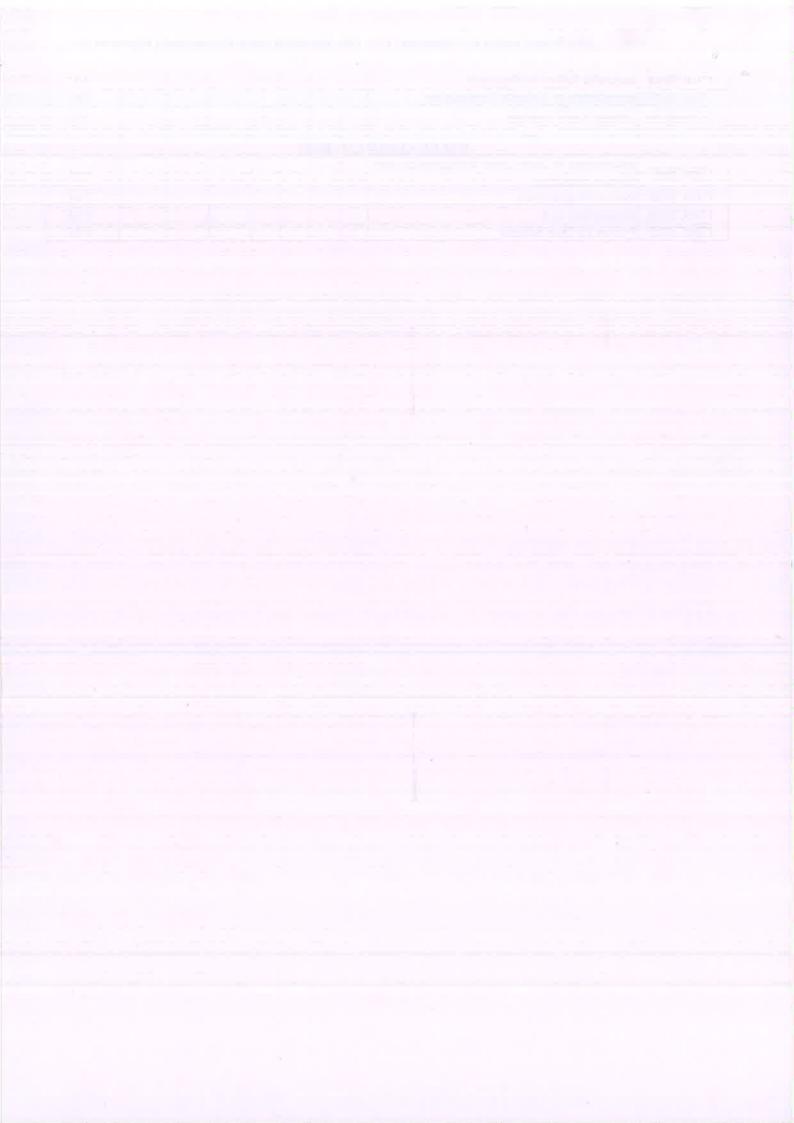
	SEMESTE	R VI	I		m,				
Course	C. N.	T	Tr.	D	C	Maxi	Marks	Catagora	
Code	Course Name	L	Т	P		CA	ES	Total	Category
Theory Cour	se								
1702CS701	Cryptography and Network Security	3	0	0	3	40	60	100	PC
1702CS702	Software Project Management	3	0	0	3	40	60	100	PC
1702CS703	Big Data Analytics	3	0	0	3	40	60	100	PC
1702CS704	Cloud Computing	3	0	0	3	40	60	100	PC
1703CS001	Service oriented Architecture (Elective V)	3	0	0	3	40	60	100	PE
1703ED001	Startup Entrepreneurship (Elective VI(Open))	3	0	0	3	40	60	100	OE
Laboratory (Course								
1702CS751	Cloud Computing Laboratory	0	0	2	1	50	50	100	PC
1702CS752	Network Security Laboratory	0	0	2	1	50	50	100	PC
1704CS753	Software Development Laboratory (Mini Project III)	0	0	2	1	50	50	100	EEC
1704GE751	Life Skills: Competitive Exams Preparation	2	0	0	2	100	- 1	100	EEC
1704CS754	In-plant Training / Internship Presentation	0	0	0	1	100		100	EEC
N 1 -11	Total				24				

	SEMESTE	RVI	II						
Course Code			Т	_ D		Maximum Marks			C 4
	Course Name		ı	P	C	CA	ES	Total	Category
Theory Cour	se								
1703CS024	Bioinformatics(Elective VII)	3	0	0	3	40	60	100	PE
1703CS027	Data Centre and Virtualization (Elective VIII)		0	0	3	40	60	100	PE
1703CS035	Social Network Analysis (Elective IX)	3	0	0	3	40	60	100	PE
Laboratory (Course								
1704CS851	Project Work		0	18	9	50	50	100	EEC
	Total				18				

List of Programme Electives for B.E. - Computer Science and Engineering

Course	Course Name	L	Т	P	C		mum N		Categor
Code	Course reame			•		CA	ES Total		Category
	ELEC	TIVE - I							
1703CS016	Wireless Communications	3	U	U	3	40	60	100	PE
1703CS002	Software Testing	3	0	0	3	40	60	100	PE
1703CS003	Information Management	3	0	0	3	40	60	100	PE
1703CS004	C# and .NET framework	3	0	0	3	40	60	100	PE
1703CS005	Advanced Database Technology	3	0	0	3	40	60	100	PE
	ELEC'	TIVE - II							
1703CS006	Mobile Computing	3	0	0	3	40	60	100	PE
1703CS007	Network Analysis and Management	3	0	0	3	40	60	100	PE
1703CS008	Open Source Programming	3	0	0	3	40	60	100	PE
1703CS009	Ad hoc and Sensor Networks	3	0	0	3	40	60	100	PE
1703CS010	Digital Signal Processing	3	0	0	3	40	60	100	PE
1 = 0 = 0 = 0 1 1		TIVE - II				40		100	70
1703CS011	Complier Design	3	0	0	3	40	60	100	PE
703MG002	Total Quality Management	3	0	0	3	40	60	100	PE
1703CS012	Data Warehousing and Data Mining	3	0	0	3	40	60	100	PE,
1703CS014	Disaster Management	3	0	0	3	40	60	100	PE
703MG008	Human Rights	3	0	0	3	40	60	100	PE
		TIVE - Y							
1703CS001	Service Oriented Architecture	3	0	0	3	40	60	100	PE
1703CS017	Digital Image Processing	3	0	0	3	40	60	100	PE
1703CS018	Embedded and Real Time Systems	3	0	0	3	40	60	100	PE
1703CS019	Game Programming		0	0	3	40	60	100	PE
1703CS020	Knowledge Management	3	0	0	3	40	60	100	PE
		ΓIVE - V							
1703CS021	Deep Learning	3	0	0	3	40	60	100	PE
1703CS022	Natural Language Processing	3	0	0	3	40	60	100	PE
1703CS023	Soft Computing	3	0	0	3	40	60	100	PE
1703CS024	Bioinformatics	3	0	0	3	40	60	100	PE
1703CS025	Human Computer Interaction	3	0	0	3	40	60	100	PE
		IVE - V		1 0	1 0	10	- co 1	100	22
	Enterprise Resource Planning			0	_	40	60	100	PE
1703CS027	Data Centre and Virtualization	3	0	0	3	40	60	100	PE
1703CS028	Growth Hacking	3	0	0	3	40	60	100	PE
1703CS029	Information Retrieval	3	0	0	3	40	60	100	PE
1703CS030	Cyber Forensics	3	0	0	3	40	60	100	PE
	ELECT	TIVE - IX	ζ					-	
1703CS031	Internet of Things	3	0	0	3	40	60	100	PE
1703CS032	Mainframe Computing	3	0	0	3	40	60	100	PE
1703CS033	Multicore Architecture	3	0	0	3	40	60	100	PE
1703CS034	Graph Theory and Its Applications	3	0	0	3	40	60	100	PE
1703CS035	Social Network Analysis	3	0	0	3	40	60	100	PE
10.1									
lista		ELECTI		1		1		1	
1703CS036	Database Management Systems	3	0	0	3	40	60	100	OE
1703CS037	Web Technology	3	0	0	3	40	60	100	OE
1703CS038	Operating Systems	3	0	0	3	40	60	100	OE
1703CS039	Computer Graphics and Multimedia	3	0	0	3	40	60	100	OE
1703CS040	Software Engineering	3	0	0	3	40	60	100	OE
1703CS041	Artificial Intelligence	3	0	0	3	40	60	100	OE
150100015	ONE CREI	OIT COU	RSE						1 00
1704CS042	Hardware and troubleshooting	3	7	9	1				OC
1704CS043	Networking Course	*	-	(2,00)	1				OC

1704CS044	Industrial Safety for Engineers	-	2	100	1		OC
1704CS045	Introduction to Fisheries Engineering	- 31		(8)	1 -	 	OC
1704CS046	Transport and Tourism			-	1		OC
	VALUE ADDED	CO	URSI	ES			
1704CS047	Introduction to Data Centre Virtualization and Cloud Computing						VAC
1704CS048	Python Programming						VAC
1704CS049	Introduction to R						VAC
1704CS050	Python for Data Science						VAC



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B.E - Computer Science and Engineering

1.1.2 Details of programmes where syllabus revision was carried out during the year

2020-2021

Course			Percentage
Code 1901MA102	Engineering Mathematics, I	Details	of Change
	Engineering Mathematics –I		0
1901CH104	Applied Chemistry in Informatics		
1901GEX03	Programming for Problem Solving		0
1901ENX01	English for Engineers		0
1901GEX52	Computer Programming Laboratory		0
1901GE151	Engineering Intelligence I		0
1901CHX51	Engineering Chemistry Laboratory		0
1901HSX51	Communication Skill Laboratory		0
1901MA202	Engineering Mathematics –II		0
1901PH201	Physics for Information Science		0
1901GEX01	Basic Electrical and Electronics		0
	Engineering		
1901GEX02	Engineering Graphics		0
1901GE201	Engineering Exploration		0
1901GE254	Computer Hardware and IT Essentials Lab		0
1901GE252	Engineering Intelligence - II		0
1901GEX51	CAD Lab		0
1901GEX53	Basic Electrical and Electronics		0
	Engineering Lab		PARTIES.
1901PHX51	Engineering Physics Lab	1000	0
1901MA302	Engineering Mathematics III	Revision	60
1902CS301	Data Structures	The Later of the L	0
1902CS302	Object Oriented Programming	New Course	100
1902CS303	Computer Organization and Architecture		0
1902CS304	Digital Logic and Microprocessors	Revision	80
1901MCX02	Constitution of India	New Course	100
1902CS351	Data Structures Laboratory		0
1902CS352	Object Oriented Programming Laboratory	New Course	100
1904GE351	Life Skills: Soft Skills		0
1902CS401	Software Engineering		0
1902CS402	Operating System	Revision	20
1902CS403	Computer Networks	100 (15)	0
1902CS404	Design and Analysis of Algorithms		0





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1902CS406	Database Management Systems	Revision	20
1901GEX04	Biology for Engineers	New Course	100
1901MCX01	Environmental Science	New Course	100
1902CS451	Networks Laboratory	Revision	10
1902CS452	Operating System Laboratory	Revision	5
1902CS453	Database Management Systems Laboratory	Revision	5
1904GE451	Life Skills: Verbal Ability		0
1701MA501	Discrete Mathematics		0
1702CS501	Object Oriented Analysis and Design		0
1702CS502	Theory of Computation		0
1702CS503	Computer Graphics and Multimedia		0
1703CS002	Software Testing		0
1703CS006	Mobile Computing		0
1702CS551	Computer Graphics and Multimedia Lab		0
1704CS552	CASE Tools Laboratory		0
1704CS553	Technical Seminar		0
1704GE551	Life Skills: Aptitude-I		0
1701MGX01	Professional Ethics		0
1702CS601	Web Technology	-12	0
1702CS602	Artificial Intelligence		0
1702CS603	Distributed Systems		0
1703CS012/	Data Warehousing and Data		0
1703MG008	Mining/Human Rights (Elective III)	-1-1	
1703CE032/	Global Warming and Climate Change/Soft		0
1703EC020/	Computing/Industrial Robotics		
1703ME011			
1702CS651	Web Technology Laboratory	R-14-3-41	0
1704CS652	Mobile Application Development Lab		0
1704CS653	Industrial Visit Presentation	malvim i mi	0
1704GE651	Life Skills: Aptitude-II		0
1702CS701	Cryptography and Network Security	New Course	100
1702CS702	Software Project Management	New Course	100
1702CS703	Big Data Analytics	New Course	100
1702CS704	Cloud Computing	New Course	100
1703CS001	Service oriented Architecture	New Course	100
1703ED001	Startup Entrepreneurship	New Course	100
1702CS751	Cloud Computing Laboratory	New Course	100
1702CS752	Network Security Laboratory	New Course	100
1704CS753	Software Development Laboratory (Mini Project)	New Course	100
1704GE751	Life Skills: Competitive Exams Preparation	New Course	100



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1704CS754	In-plant Training / Internship Presentation	New Course	100
1703CS024	Bioinformatics	New Course	100
1703CS027	Data Centre and Virtualization	New Course	100
1703CS035	Social Network Analysis	New Course	100
1704CS851	Project Work	New Course	100
		Average	36.98

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Minutes of Board of Studies (BoS) Meeting

Name of the Department	Computer Science and Engineering
Name of the Programmes	B.E. Computer Science and Engineering M.E. Computer Science and Engineering
Meeting No.	01
Date & Time	08.07.2017 & 10.00 A.M.
Venue	CSE A/C Seminar Hall (SJB 108)

- 1. Chairman / BoS welcomed all members for the 1st meeting of Board of Studies.
- 2. Chairman / BoS introduced the members.
- 3. Chairman / BoS briefed the members about the Agenda.
 - To finalize the curriculum and syllabi of first and second semester B.E. CSE Programme and curriculum of 1st to 4th Semesters and syllabi of first and second semester M.E. CSE Programme.
 - To finalize the curriculum of 3rd 8th Semester B.E CSE.
 - To discuss the question paper pattern for UG/PG Programme and Evaluation methodologies.
 - Any other matters.
- 4. The following are the suggestions given by the member of Board of Studies.
 - The Board of Studies members have gone through the curriculum and syllabi of first and second semester B.E. CSE and M.E. CSE programmes.
 - The Board of Studies Chairman gave a brief presentation on Vision and Mission of the Institution and the Department, PEOs, POs and the PSOs.
 - The feedback from the stakeholders of Employers, Faculty member, Alumnus, Parents, Students and other institution senior faculty members, internal senior faculty members and students and the corresponding resolutions made in the department level academic activities committee meetings discussion were presented by the Chairman of the Board.



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- In the Department level academic meeting, it is suggested to include the important courses related to improve the skills like programming courses and the curriculum designed as per the local needs of the society and the peoples requirements
- The Board of Studies Chairman agreed to offer those courses and the same accepted by the board
- Students are encouraged to complete NPTEL Courses during the 3rd or 4th year
- Students are instructed to use the modern tools, interdisciplinary and latest technology in the mini project and doing final year project
- The Board of Studies members have gone through the curriculum of 3rd = 8th Semester of
 B.E. CSE and 3rd and 4th Semesters of M.E. CSE programmes
- The Anna University Nomince suggested that all the mandatory courses include in the curriculum with the reference of UGC guidelines
- Discussed about the Curriculum considering the guidelines of UGC, AICTE, Premier Institutions, PEOs, POs and PSOs of the program and the views of the stakeholders
- It is recommended to put a total number of credits for B.E. CSE programme should be within 184 and for lateral entry students should be within 140

• For B.E. CSE – Undergraduate Programme

- o The Curriculum and Syllabi framed as per the Guidelines of UGC/AICTE/University/Reputed Institutions/Professional Society/Local needs and the feedback received from the stakeholders
- Tutorial hours should be added for Mathematics courses
- o Latest versions of five references books are suggested
- o Subjects regarding the preparation for industry readiness and GATE may be included
- o Data Structures Lab is mandatory in the respective semester of the courses
- o Digital System and Digital Lab should be combined as Theory with Lab Component
 - o Operating System should be moved to Semester III from Semester IV
 - Computer Networks and Database Management System moved to Semester IV from Semester III



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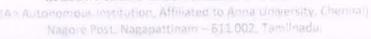
- Distributed System or Distributed Computing is mandatory in either Semester V or Semester VI
- O Graph Theory can be removed since it is relevant to Discrete Mathematics
- O Compiler Design can be moved to elective list
- o System Software can be removed
- o It is recommended to include Open Source Programming, Service Oriented Architecture, Deep Learning, Data Centre Virtualization, Internet of Things in the Programme Elective
- o It is recommended to include Artificial Intelligence as open elective

For M.E. CSE PG Programme

- o Generally in all the subjects include specific Case studies.
- o Include Internet of Things as Core subject
- o Instead of Computer Networks lab, the Operating System Design Case Studies may be included
- o Further reading is needed in all the courses
- Simulator on tools can be added in all the lab courses
- Latest versions of references books are suggested
- o Machine Learning Technique courses should be added in First or Semester

• General

- O The attainment level of Course Outcomes(COs), Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) discussed
- It is suggested to offer Value Added Courses and One Credit Courses
- o Discussed about Students Undertaking internship, field projects, projects related
- o Discussed about the Employability Courses, Entrepreneurship and Skill development Courses were suggested by the Stakeholders.
- Discussed the Course outcomes and Program Specific Outcomes related for each courses



Ouestion Paper Pattern

o UG / PG Programme

Part A -10x2 = 20 Marks

Part B -5x12 = 60 Marks (Either or)

Part C - 1x20 = 20 Marks (Either or)

Total Marks = 100 Marks, Duration = 3 hours

Evaluation Methods

Theory

Practical

Continuous Assessment = 40%

Continuous Assessment = 50%

Semester Examination = 60%

Semester Examination = 50%

The accepted PSOs are shown below for approval of Academic Council,

PSO 1: The ability to apply software engineering principles and practices to design and develop software systems that meet the automation needs of industrial and societal problems

PSO 2: The ability to apply their technical skills and knowledge gained in the fields such as Artificial Intelligence, Data Science, Cloud Computing, Social Network Analysis and Mobile Application development

5. The following resolutions were passed

- It is resolved to recommend the curriculum and syllabi of first and second semester of B.E CSE and M.E CSE Programmes to the academic Council for approval.
- It is resolved to recommend the curriculum the curriculum of $3^{rd} 8^{th}$ semester B.E CSE and 3rd & 4th semester M.E programmes to the academic council for approval.
- It is resolved to recommend the question paper pattern UG/PG programmes and evaluation methodology for approval

The chairman, Board of studies thanked all the members for their valuable suggestions and coordination.

Date: 08. 07. 2017
Place: Nagapathiram

Board of Studies Department of Computer Science &

Engineering EGS Pillay Engineering College (Autonomous) Nagapattinam.



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Board of Studies Meeting

Attendance

Name of the Department

: Computer Science and Engineering

Meeting No.

: 01

Date & Time

: 08.07.2017 & 10.00 A.M.

Venue

: CSE A/C Seminar Hall

S.No	Name	Category	Signature
1	Dr.M.CHINNADURAI	Chairman	White
2	Dr.S.MERCY SHALINIE	University Nominee	3 M Shudin
3	Dr.A.AMUTHAN		W.W
4	Dr.G.R.KARPAGAM	External Expert Members	& Bupageur
5	Dr.M.ARAMUDHAN		W Krym
6	Mr.J.SARATH CHANDAR	Industry/	d. Sarathahandar.
7	Mr.ANAND THIAGARAJAN	Corporate Sector	MM
8	Ms.MERCY MARIA	Alumnus	Norghanie MA Loud
9	Mr.S.P.GOPLAN	Alumnus	MA low
10	Dr.T.GANESAN		100/00
11	Prof.N.MURALI	Internal Member	ALLY al
12	Prof.K.BALASUBRAMANIAN		10. Bust

Chairman - BoS (CSE)

CHAIRMAN
Board of Studies

Department of Computer Science & Engineering
EGS Pillay Engineering College (Autonomous)

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Minutes of Board of Studies (BoS) Meeting

Name of the Department	Computer Science and Engineering
	B.E. Computer Science and Engineering
Name of the Programmes	M.E. Computer Science and Engineering
Meeting No.	02
Date & Time	21.04.2018 & 09.30 A.M.
Venue	CSE A/C Seminar Hall

The names of the members present in the Board of Studies are given in Annexure I.

- 1. Chairman / BoS welcomed all members for the 2nd meeting of Board of Studies.
- 2. Chairman / BoS introduced the members.
- 3. Chairman / BoS briefed the members about the Agenda.
 - Discussion and action taken about previous meeting
 - To finalize the syllabi of B.E CSE Programme from third to eight semesters and M.E. CSE Programme from third to fourth semester.
 - Any other matters.
- 4. The following are the suggestions given by the member of Board of Studies.
 - The Board of Studies members have gone through the syllabi of 3rd to 8th Semester B.E. CSE and 3rd to 4th Semester of M.E. CSE programmes.

• For B.E. CSE - Undergraduate Programme

- As per the approval of 1st Academic Council meeting, it is ensured for assessment to go for 50-50 for practical and 40-60 for theory courses.
- o It is to be ensured to have the method to calculate the GPA/CGPA.
- It is to be ensured to go for 50-50 instead of 40-60 in Internal: External Calculation for theory cum laboratory courses.
- o It is recommended to bring forth the Life Skills, Soft Skills, English Communication and other relevant courses related to placement and to complete them by seventh semester.
- O It is recommended to bring Programming Paradigms to Fourth Semester while COA to Third Semester and Computer Networks shall be pushed to next semester.

ers Philas excessionists concerns

- It is recommended to bring courses such as Mobile Computing and Ad hoc Networks to electives.
- o It is recommended not to include any core courses in the eight semesters.
- o It is recommended to offer one mini project by sixth semester.
- It is recommended to introduce comprehensive viva by Seventh Semester which facilities the competitive examination.
- o It is recommended to offer Data Mining and Data Warehousing as a professional elective.
- o It is recommended to mandate industrial visit and internship by the end of third year
- o It is necessary to include latest edition of reference books.
- o Life Skills can be given with credits.
- o Each semester may be given with the average of 24 credits.
- o For lateral entry students must include additionally Environmental Studies in 4th Semester.
- All the laboratory courses have to include additional experiments or innovative experiments if needed.

• For M.E. CSE Post Graduate Programme

- o Project Phase 1 may be given for industrial exposures.
- O It is ensure to publish the journal as project done by the students.
- It is recommended to include more innovative experiments in the laboratory courses.
- It is recommended to visit the industries atleast in the final year and submit the report to the department.
- o It is recommended to add the Research Methodology course in the open elective.
- o The board members are insist to participate in the Conferences once in a year.

General

- All the courses are recommended to include the course outcomes as discussed and approved in this BOS meeting.
- Further reading can be added.
- It is necessary to provide credit split up with allotted credits for HSS, BS, PC and PE courses in this regulation.
- o It is recommended to offer Value added courses and one credit courses.



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The following Actobation, vary panels

• It is resolved to recommend the curriculum and syllabil of third to eighth semester of

B.E CSE and third to fourth semester of M.E CSE Programmes to the Academic Council for approval.

The Chairman, Board of Studies thanked all the members for their valuable suggestions and coordination.

Date: 21.4.18

Place: Nagappatinan

Chairman (BoS)

University Nominee

Subject Expert

Subject Expert 211414

Industry Expert

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Senior Faculty

Senior Faculty

Senior Faculty

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Minutes of Board of Studies (BoS) Meeting

Name of the Department	Computer Science and Engineering
Name of the Programmes	B.E. Computer Science and Engineering M.E. Computer Science and Engineering
Meeting No.	04
Date & Time	18.05.2019&10.30 AM
Venue	CSE A/C Seminar Hall (SJB 108)

The names of the members present in the Board of Studies are given in Annexure I.

- 1. Chairman / BoS welcomed all members for the 4th meeting of Board of Studies.
- 2. Chairman / BoS introduced the members.
- 3. Chairman / BoS briefed the members about the Agenda.
 - Discussion and action taken about previous meeting
 - To finalize the curriculum and syllabi of B.E. CSE Programme under new regulations
 2019 and to review the implementation of M.E. CSE Programme
 - Any other matters.

4. The following are the suggestions given by the member of Board of Studies

- The Board of Studies members have gone through the curriculum of B.E. CSE from 1st to 8th
 Semesters and Syllabi of B.E. CSE from 1st to 4th Semester Courses
- The curriculum and syllabi framed as per the AICTE model curriculum
- Board of Studies members accepted the implementation of AICTE model curriculum, other reputed institutions and Program Specific Criteria CSE R2017, CSE curriculum for drafting the R2019 curriculum
- The Board is insisted to include the contents in the syllabus of R2019 by referring GATE
 Syllabus
- The feedback from the stakeholders viz, employers, alumni, faculty from other institutions,
 parent, internal faculty and students and the corresponding resolutions made in the
 Programme Assessment Committee (PAC) meeting were presented by the Chairman of the
 Board. The BOS resolved to accept the PAC resolution.

- III PAC meetings, either one of C++ and Java can be given as a programmine course in Object
 Oriented Programming course and Mobile Application Development course may be included
 as a laboratory course
- The board strictly instructed to involve the students in the online courses as per the regulations
- Mapping of the curriculum and syllabi of the proposed regulation R2019 with the program specific criteria was presented to the board of members by the Chairman and the board resolved to accept the mapping
- The components of the courses under R2019 based on having to one or more of the categories were presented to the board by the Chairman. The board resolved to accept the components
- Board of Studies Chairman has agreed to offer the courses related to research thrust areas in the Program Elective Courses
- The Basic Sciences courses are to be specific in the field of computer science field
- For Chemistry and Physics courses are to be ensured in the field of computer science field
- It is recommended to include Hardware and Troubleshooting related experiments in the laboratory courses
- The syllabus of Constitution of India is to be included in the third semester of the programme.
- As per the mandatory courses of AICTE model curriculum should be included in the curriculum
- Operating system should be moved to fourth semester and Digital system can be removed
- It is recommended to remove the credit score to the Environmental Science course.
- It is recommended to introduce new courses related to the field of Entrepreneurship skills development
- The Chairperson presented the panel of evaluators and question paper setters for valuation for approval.
- The BoS Members reviewed and approved the end semester External examiners and scrutiny members for R2019
- Discussed about the mapping of curriculum with Program Specific Criteria and board approved the same
- It is recommended the assessment questions and assessment pattern for the core and elective courses and the board approved the same

- Fire poard analyzed the stakeholders feedback regarding the curriculum and syllatu under K2019 regulation
- For M.E. CSE implementation of curriculum and syllahi were discussed.

Resolutions:

It was resolved to incorporate the suggestions given by the BOS members towards the new regulations R2019 curriculum and syllabi (1^{st} to 4^{th} Semester) for B.E. CSE Programme and discussed about M.E. CSE review the implementation.

Board of Studies recommended the above resolutions to be presented in the Academic Council for further approval.

Finally the Chairman thanked all the members for their presence and valuable suggestions towards the improvement of the B.E. CSE R2019 Curriculum and Syllabus (1st to 4th Semester) for the Computer Science and Engineering Board.

Date: 18.05.2019

Place: Nagapattinam

Chairman - Bos (CSE)

CHAIRMAN

Board of Studies

Department of Computer Science &
Engineering

EGS Pillay Engineering College (Autonomeus)
Nagapattinam.



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Board of Studies Meeting

Attendance

Name of the Department

: Computer Science and Engineering

Meeting No.

: 04

Date & Time

: 18.05.2019 & 10.00 A.M.

Venue

: CSE A/C Seminar Hall

S.No	Name	Category	Signature
1	Dr.M.CHINNADURAI	Chairman	white show
2	Dr.S.MERCY SHALINIE	University Nominee	SM Sharin
3	Dr.A.AMUTHAN	- F - 1	1. hu
4	Dr.G.R.KARPAGAM	External Expert Members	Goberpegen .
5	Dr.M.ARAMUDHAN	IVICITIOCIS	M. Hulem
6	Mr.J.SARATH CHANDAR	Industry/ Corporate	Sardhchandar. S
7	Mr.ANAND THIAGARAJAN	Sector	Munch
8	Ms.MERCY MARIA	Alumnus	Merey Maria
9	Mr.S.P.GOPLAN	Alumnus	up lui.
10	Dr.T.GANESAN	3	7-4-5
11	DrN.MURALI		the al
12	Dr.R.MANIVANNAN	Internal Member	ROW!
13	Prof.K.KALAIVANI		Collaires
14	Prof.K.BALASUBRAMANIAN		6. Rawh

Board of Studies

Department of Computer Science & Engineering EGS Pillay Engineering College (Autonomous) Nagapattinam.



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Nagara Port, Nagapallinam 611 802 Turillusili



Minutes of Board of Studies (RoS) Meeting

Name of the Department	Computer Science and Engineering
Name of the Programmes	B.E. Computer Science and Engineering M.E. Computer Science and Engineering
Meeting No.	05
Date & Time	08.06.2020 & 10.00 AM
Venue	Online: Google Meet https://meet.google.com/nky-cnzr-wzj

The names of the members present in the Board of Studies are given in Annexure I.

- 1. Chairman / BoS welcomed all members for the 5th meeting of Board of Studies.
- 2. Chairman / BoS introduced the members.
- 3. Chairman / BoS briefed the members about the Agenda.
 - Discussion and action taken about previous meeting
 - Discussion of the implementation of R2017 and R2019 B.E. CSE syllabus and review of M.E. CSE Programme
 - Any other matters.
- 4. The following are the suggestions given by the member of Board of Studies
 - The Board of Studies members have gone through the curriculum and Syllabus of last meeting discussed and reviews the process of implementation of academic regulations.
 - Mapping of Course Outcomes and Program Outcomes were discussed with a sample course file.
 - Python programming can be given as Diploma Course for the CSE Students.
 - It is recommended to visit the industries by the students and the report has to be submitted to the department and based on that report the credit can be assigned.
 - The credit may be given to Inplant and Industrial training.



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course the credit may be incorporated in the mark sheet and the credit maister too exemption of one equivalent course may be approved by the Academic Council.

- Big Data Analytics and Data Centre may be added in the elective course to fulfill the
 Program Specific Criteria of some levels.
- It is recommended to split the Mini project into two different semesters.

o Resolutions:

It was resolved to incorporate the suggestions given by the BOS members towards the review and implementation of regulations 2019 curriculum and syllabi (1st to 4th Semester) for B.E. CSE Programme and discussed about M.E. CSE review the implementation.

Board of Studies recommended the above resolutions to be presented in the Academic Council for further approval.

Finally the Chairman thanked all the members for their presence and valuable suggestions towards the improvement of the B.E. CSE R2019 Curriculum and Syllabus (1st to 4th Semester) and M.E. CSE for the Computer Science and Engineering Board.

Date: 08.06.2020

Place: Nagapattinam

CHAIRMAN
Board of Studies
Department of Computer Science &
Engineering
EGS Pillay Engineering College (Autenomous)
Nagapattinam.

Chairman \BoS



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Board of Studies (BoS) Meeting

Name of the Department

Computer Science and Engineering

Meeting No.

Date & Time

08.06.2020, 10.00 A.M

Venue

Online Platform - Google Meet

S.No.	Name	Category		
1	Dr. M. CHINNADURAI	Chairman		
2	Dr. S. MARY SAIRA BHANU	University Representative		
3	Dr. A. AMUTHAN			
4	Dr. M. ARAMUDHAN	External Expert Members		
5	Mr.U.CHANDRASEKAR	Industry / Corporate Sector		
6	Ms. MERCY MARIA	Alumnus		
7	Mr. P. HARIHARAN	Alumnus		
8	Dr. T. GANESAN			
9	Dr. R. MANIVANNAN			
10	Dr. N. MURALI	Internal Members		
11	Prof. K. KALAIVANI			
11	Prof. K. BALASUBRAMANIAN			
12	Prof. G. ARUL SELVAN			

Chairman

CHAIRMAN Board of Studies

Department of Computer Science & Engineering EGS Pillay Engineering College (Autonomous)

Nagapattinam.

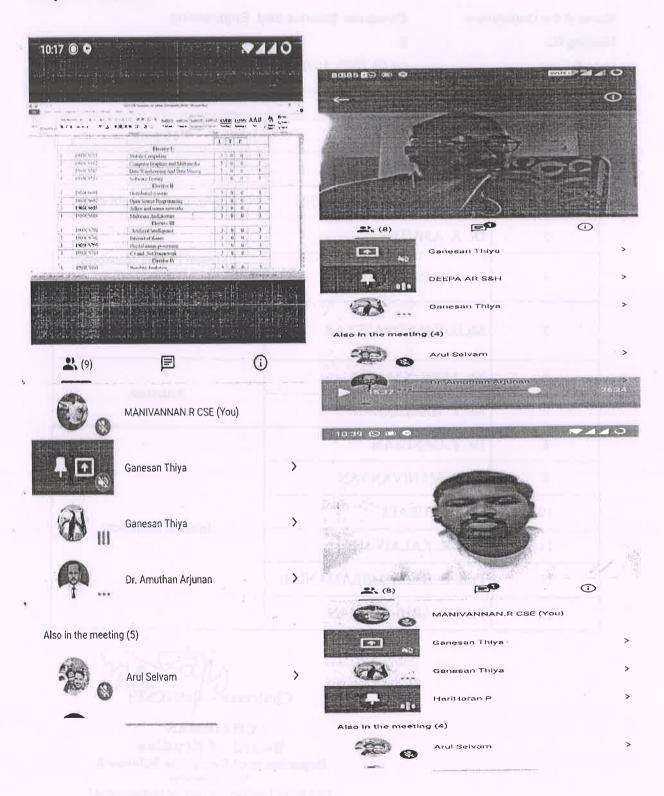


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Sample Screenshots:



B.E. - Computer Science and Engineering 2019 Regulation: Full Time Curriculum and Syllabus

	SEMESTER I								
Course Code	2 outsolvanie	L	Т	P	C	Maxi	Category		
						CA	ES	Total	
Theory Cour	rse								
1901MA102	Engineering Mathematics –I (Calculus and Linear Algebra)	3	2	0	4	40	60	100	BS
1901CH104	Applied Chemistry in Informatics	3	0	0	3	40	60	100	BS
1901GEX03	Programming for Problem Solving	3	0	0	3	40	60	100	ES
1901ENX01	English for Engineers	2	0	0	2	40	60	100	BS
Laboratory (Course								
1901GEX52	Computer Programming Laboratory	0	0	2	1	50	50	100	ES
1901GE151	Engineering Intelligence I	0	0	2	1	100	0	100	HSS
1901CHX51	Engineering Chemistry Laboratory	0	0	2	1	50	50	100	BS
1901HSX51	Communication Skill Laboratory	0	0	2	1	50	50	100	BS
	Total				16	30	50	100	מם

	SEMESTE	RII							
Course Code	Course Name	L		P		Maximum M		Marks	Category
			T		C	CA	ES	Total	
Theory Cours	se		-						
1901MA202	Engineering Mathematics –II (Probability and Statistics)	3	2	0	4	40	60	100	BS
1901PH201	Physics for Information Science	3	0	0	3	40	60	100	BS
1901GEX01	Basic Electrical and Electronics Engineering	3	0	0	3	40	60	100	ES
1901GEX02	Engineering Graphics	2	0	2	3	50	50	100	ES
1901GE201	Engineering Exploration	2	0	0	2	100	0	100	ES
	Laboratory C	ourse			-				25
1901GE254	Computer Hardware and IT Essentials Laboratory	0	0	2	1	50	50	100	ES
1901GE252	Engineering Intelligence - II	0	0	2	1	100	0	100	HSS
1901GEX51	CAD Laboratory	0	0	2	1	50	50	100	ES
1901GEX53	Basic Electrical and Electronics Engineering Laboratory	0	0	2	1	50	50	1.00	ES
1901PHX51	Engineering Physics Laboratory	0	0	2	1	50	50	100	BS
	Total				20			100	

	SEM	ESTE	CR II	Ι					
Course Code	Comment North	L	T	P	C	Maxir	Catego		
Course Code	Course Name	L	1	r	0	CA	ES	Total	ry
Theory Cours	e								
1901MA302	Engineering Mathematics III	3	2.	(.)	4	40.	60	100	BS
1902CS301	Data Structures	. 3	2	-0	4	40	60	i 100	PC
1902CS302	Object Oriented Programming	3	0	0	3	40	60	100	PC
1902CS303	Computer Organization and Architecture	3	0	0	3	40	60	100	PC
1902CS304	Digital Logic and Microprocessors	3	0	2	4	40	60	100	ES
1901MCX02	Constitution of India	2	0	0	0	100	0	100	MC
Laboratory C	Course								
1902CS351	Data Structures Laboratory	0	0	2	1	50	50	100	PC
1902CS352	Object Oriented ProgrammingLaboratory	0	0	2	1	50	50	100	PC
1904GE351	Life Skills: Soft Skills	0	0	2	1	100	-	100	EEC
SKH, LIKE	Total				21				

	SEME	STER	IV						
Course Code	Course Name	L	Т	P	C	Maximum Marks			Categ
Code					10000	CA	ES	Total	ory
Theory Cour	·se					***************************************		77	
1902CS401	Software Engineering	3	0	0	3	40	60	100	PC
1902CS402	Operating System	3	0	0	3	40	60	100	PC
1902CS403	Computer Networks	3	0	0	3	40	60	100	PC
1902CS404	Design and Analysis of Algorithms	3	0	0	3	40	60	100	PC
1902CS406	Database Management Systems	3	0	0	3	40	60	100	PC
1901GEX04	Biology for Engineers	3	0	0	3	50	50	100	BS
1901MCX01	Environmental Science	2	0	0	0	100	0	100	MC
Laboratory	Course								
1902CS451	Networks Laboratory	0	0	2	1	50	50	100	PC
1902CS452	Operating System Laboratory	0	0	2	1	50	50	100	PC
1902CS453	Database Management Systems Laboratory	0	0	2	1	50	50	100	PC
1904GE451	Life Skills: Verbal Ability	0	0	2	1	100		100	EEC
	Total				22				

	SEMES	TER	V						
Course Code	Course Name	L	T	P	C	N	Categ		
Cour						CA	ES	Total	017
Theory Cour	·se								
1901MA501	Discrete Mathematics	3	2	0.	4	411	60	100	13.5
1902CS501	Object Oriented Analysis and Design	3	0	0	3	40	60	100	PC
1902CS502	Theory of Computation	3	2	0	4	40	60	100	PC
	PC Elective I	3	0	0	3	40	60	100	PE
	HSS Elective I	3	0	0	3	40	60	100	HSSE
1901MCX03	Essence of Indian Traditional Knowledge	2	0	0	0	100	0	100	MC
Laboratory	Course			T.					m in
1902CS551	CASE Tools Laboratory	0	0	2	1	50	50	100	PC
1902CS552	Mobile Application Development Laboratory	0	0	2	1	50	50	100	PC
1904GE551	Life Skills: Aptitude I	0	0	2	1	100	Ψ,	100	EEC
	Total			-	20				

	SEMEST	ER V	/T						
Course Code	Course Name	L	Т	P	C	Maximum Marks			Catego
	Course Name		1	Г		CA	ES	Tot al	ry
Theory Co	urse								
1902CS601	Compiler Design	3	0	0	3	40	60	100	PC
1902CS602	Web Technology	3	2	0	4	40	60	100	PC
1902CS603	Artificial Intelligence	3	0	0	3	40	60	100	PC
	PC Elective II	3	0	0	3	40	60	100	PE
1 12 1 0	HSS Elective II	3	0	0	3	40	60	100	HSSE
	Open Elective I	3	0	0	3	40	60	100	OE
Laboratory	Course								
1902CS651	Compiler Laboratory	0	0	2	1	50	50	100	PC
1902CS652	Web Technology Laboratory	0	0	2	1	50	50	100	PC
1904CS653	Software Prototype development Lab (Mini Project 1)	0	0	2	1	50	50	100	PC
1904CS654	Industrial Visit Presentation	0	0	0	1	100	-	100	EEC
1904GE651	Life Skills: Aptitude II	0	0	2	1	100	-	100	EEC
	Total				24				

	SEMES	TER	VII						
Course	Course Name	Ь	Т	P	C	Maximum Marks			Catego
Code	Course Name		, i	I.		CA	ES	Tot al	ry
Theory Cou	irse								
1902CS701	Cloud Computing	3	0	0	3	40	60	100	PC
1902CS702	Cryptography and Network Security	3	0	0	3	40	60	100	PC
1901MG701	Universal Human Values and Ethics	3	0	0	3	40	60	100	PC
	PC Elective III	3	0	0	3	40	60	100	PE
	HSS Elective III	3	0	0	3	40	60	100	HSSE
113	Open Elective II	3	0	0	3	40	60	100	OE
Laboratory	Course								
1902CS751	Cloud Computing Laboratory	0	0	2	1	50	50	100	PC
1902CS752	Network Security Laboratory	0	0	2	1	50	50	100	PC
1904CS753	Software Development Laboratory (Mini Project II)	0	0	2	1	50	50	100	PC
1904GE751	Life Skills: Comprehensive Viva	2	0	0	2	100	-	100	EEC
1904GE752	In plant training/Internship	- (4)	=======================================	-	1	100	-	100	EEC
	Total				24				

	SEMES	TER '	VIII						
Course						Maxi	Cat		
Code	Course Name	L T P C CA ES	Total	ego ry					
Theory Co	ourse						LID.		
	PC Elective IV	3	0	0	3	40	60	100	PE
22.00	PC Elective V	3	0	0	3	40	60	100	PE
Laborator	y Course								
	Project Work	0	0	14	7	50	50	100	EEC
	Total				13				

PC ELECTIVE COURSES

SL	Course	Name of the Course	N	umb	er	Credit
No.	Code		of	Hou	rs/	1
	Elective I 1903CS001 Mobile Computing 1903CS002 Computer Graphics and Multimedia 1903CS003 Data Warehousing and Data Mining 1903CS004 Software Testing Elective II 1903CS005 Distributed systems 1903CS006 OpenSource Programming 1903CS007 Adhoc and sensor networks 1903CS008 Multicore Architecture Elective III 1903CS009 Embedded and Real Time Systems 1903CS010 Internet of things 1903CS011 Digital image processing 1903CS012 C# and .Net Framework Elective IV 1903CS013 Big data Analytics 1903CS014 Service oriented Architecture 1903CS015 Machine learning techniques 1903CS016 Natural Language Processing	1	Vec	K	1	
			L	T	P	
	1.000.000.00					
1			3	0	0	3
2			3	0	0	3
3		Data Warehousing and Data Mining	3	0	0	3
4	1903CS004	Software Testing	3	0	0	3
		Elective II				1
5		Distributed systems	3	0	0	3
6		OpenSource Programming	3	0	0	3
7	1903CS007	Adhoc and sensor networks	3	0	0	3
8	1903CS008	Multicore Architecture	3	0	0	3
		Elective III				
9			3	0	0	3
10	1903CS010	Internet of things	3	0	0	3
11	1903CS011	Digital image processing	3	0	0	3
12	1903CS012	C# and .Net Framework	3	0	0	3
		Elective IV				
13	1903CS013	Big data Analytics	3	0	0	3
14	1903CS014	Service oriented Architecture	3	0	0	3
15	1903CS015	Machine learning techniques	3	0	0	3
16	1903CS016	Natural Language Processing	3	0	0	3
		Elective V				-1
17	1903CS017	Information Retrieval	3	0	0	3
18	1903CS018	Cyber forensics	3	0	0	3
19	1903CS019	Data Centre and Virtualization	3	0	0	3
20	1903CS020	Bio Informatics	3	0	0	3

S.No.	Course Code	Name of the Course	Nui / W		f Hours	Credit
			L	T	P	
		OPEN ELECTIVE COURS	SES			
21	1903CS021	Computer Networks	3	0	0	3
22	1903CS022	Artificial Intelligence	3	0	0	3
23	1903CS023	Database Management Systems	3	0	0	3
24	1903CS024	Web Technology	3	0	0	3
25	1903CS025	Data Structures	3	0	0	3
26	1903CS026	Object oriented Programming	3	0	0	3
27	1903CS027	Cloud Computing	3	0	0	3
28	1903CS028	Mobile Computing	3	0	0	3

		ONE CREDIT COURSES				
29	1904CS001	Hardware and troubleshooting		:=:	-	1
30	1904CS002	Networking Course	-	-	100	1
31	1904CS003	Industrial Safety for Engineers	-	-	100	1
32	1904CS004	Introduction to Fisheries Engineering	=	12	-	-1
33	1904CS005	Transport and Tourism	=	-	-	1
		VALUE ADDED COURSES				
34	1904CS006	Introduction to Data Centre Virtualization and Cloud Computing				
35	1904CS007	Python Programming				
36	1904CS008	Introduction to R				
37	1904CS009	Python for Data Science				

Humanities, Social Science and Management Electives Courses

S.No.	Course Code	Name of the Course		ber o		Credit	
			L	T	P		
		Elective I					
1.	1901MGX01	Total Quality Management	3	-	-	3	
2.	1901MGX02	Project Management and Finance	3	-	-	3	
3.	1901MGX03	Operations Research	3	-	17.	3	
4.	1901MGX04	Principles of Management	3	-	-	3	
		Elective II			III		
1.	1901HS001	Innovation & Entrepreneurship	3	-		3	
		fundamentals			i me		
2.	1901HS002	Intellectual Property Rights for Engineers	3	-	ш-	3	
3.	1901HS003	Startup Entrepreneurship	3	-	-	3	
4.	1901HS004	Business Model Innovation	3	-	100-C	3	
		Elective III	(TI		HILL		
1.	1901HS005	Social Entrepreneurship	3	-	furt.	3	
2.	1901HS006	Design Thinking for Innovation	3	-		3	
3.	1901HS007	Indian Patent Law &Patent Drafting	3	-	-	3	
4.	1901HS008	IP Management & Commercialization	3	-	-	3	

B.E. – Computer Science and Engineering R 2017 Full Time Curriculum and Syllabus

	SEMEST	TER I							
Course	Course Name	1	Т	P	C	Maxi	mum :	Marks	Cotocom
Code	Course Name	F	1	r		CA	ES	Total	Category
Theory Cou	irse								
1701MA101	Engineering Mathematics-I	3	2	0	4	40	60	100	BS
1701PH101	Applied Physics for Engineers	3	0	0	3	40	60	100	BS
1701CH101	Applied Chemistry in Informatics	3	0	- 0	3	40	60	100	BS
1701EN101	Technical English	3	0	0	3	100	0	100	HSS
1701GEX01	Basic Electrical and Electronics Engineering	3	0	0	3	40	60	100	ES
1701GEX02	Engineering Graphics	2	2	0	3	50	50	100	ES
1701GEX03	Programming in C	3	0	0	3	40	60	100	ES
Laboratory	Course	- 1						1	
1701HS151	Physics and Chemistry Laboratory –I	0	0	2	1	50	50	100	BS
1701GEX51	Programming in C Laboratory	0	0	2	1	50	50	100	ES
	Total				24			CAR	Tv = -

	SEMES	STER II							
Course	Course Name	T	Т	Р	C	Maxi	mum]	Marks	Catanan
Code	Course Name	L	1	P		CA	ES	Total	Category
Theory Co	urse								
1701MA201	Engineering Mathematics-II	3	2	0	4	40	60	100	BS
1701PH201	Physics of Engineering Materials	3	0	0	3	40	60	100	BS
1701CH201	Environmental Studies	3	0	0	3	40	60	100	BS
1701GE201	Basic Civil and Mechanical Engineering	3	0	0	3	40	60	100	ES
1702CS201	Programming in C++	3	0	0	3	40	60	100	PC
1701LE201/	Communicative English/Hindi	3	-0	0	3	100		100	HSS
1701LE202	Communicative English/Hilldi	3	U	U	3	100		100	поо
Laboratory	Course								William I
1701GEX53	Workshop Practice	0	0	2	1	50	50	100	ES
1701HS251	Physics and Chemistry Laboratory –II	0	0	2	1	50	50	100	BS
1702CS251	Programming in C++ Laboratory	0	0	2	1	50	50	100	PC
1701GEX52	Communication Skills Laboratory	0	0	2	1	50	50	100	HSS
	Total				23				

	SEMEST	ER II	I						
Course	Course Name	1	T	Р	C	Maxi	imum]	Marks	Catagory
Code	Course Name	L	1	r		CA	ES	Total	BS PC
Theory Cour	se								
1701MA301	Engineering Mathematics III	3	2	0	4	40	60	100	BS
1702CS301	Data Structures	3	2	0	4	40	60	100	PC
1702CS302	Computer Organization and Architecture	3	0	0	3	40	60	100	PC
1702CS303	Software Engineering	3	0	0	3	40	60	100	PC
1702CS304	Digital Systems	3	0	2	4	50	50	100	PC
1702CS305	Operating Systems	3	0	0	3	40	60	100	PC

1702CS351	Data Structures Laboratory	0	0	2	1	50	50	100	PC
1702CS352	Operating Systems Laboratory	0	0	2	1	50	50	100	PC
704GE351	Life Skills: Soft Skills	0	0	2	1	100	-	100	EEC

	SEMI	ESTER	RIV						
Course	Carres Name	Y	T	P	C	Maxi	mum	Marks	0.4
Code	Course Name	L	T	P	C	CA	ES	Total	Category
Theory Cour	se			101					
1701MA401	Probability and Queuing Theory	3	2	0	4	40	60	100	BS
1702CS401	Computer Networks	3	0	0	3	40	60	100	PC
1702CS402	Programming Paradigms	3	2	0	4	40	60	100	PC
1702CS403	Design and Analysis of Algorithms	3	0	0	3	40	60	100	PC
1702CS404	Microprocessors and Microcontrollers	3	0	2	4	50	50	100	PC
1702CSX02	Database Management Systems	3	0	0	3	40	60	100	PC
1701CH201*	Environmental Studies	3	0	0	3	40	60	100	BS
Laboratory C	Course								
1702CS451	Networks Laboratory	0	0	2	1	50	50	100	PC
1702CSX52	Database Management Systems Laboratory	0	0	2	1	50	50	100	PC
1704GE451	Life Skills: Verbal Ability	0	0	2	1	100	9	100	EEC
	Total				24/27*				

^{*}Applicable for Lateral Entry students

	SEMEST	ER V							
Course	Course Name	L	Т	P	C	Maxi	mum	Cotogorg	
Code	Course Name	L	1	P	C	CA	ES	Total	Category
Theory Cou	rse								
1701MA501	Discrete Mathematics	3	2	0	4	40	60	100	BS
1702CS501	Object Oriented Analysis and Design	3	0	0	3	40	60	100	PC
1702CS502	Theory of Computation	3	2	0	4	40	60	100	PC
1702CS503	Computer Graphics and Multimedia	3	0	0	3	40	60	100	PC
1703CS002	Software Testing (Elective I)	3	0	0	3	40	60	100	PE
1703CS006	Mobile Computing(Elective II)	3	0	0	3	40	60	100	PE
Laboratory (Course								
1702CS551	Computer Graphics and Multimedia Laboratory	0	0	2	1	50	50	100	PC
1704CS552	CASE Tools Laboratory (Mini Project I)	0	0	2	1	50	50	100	EEC
1704CS553	Technical Seminar	0	0	2	1	100	=	100	EEC
1704GE551	Life Skills: Aptitude-I	0	0	2	1	100	-	100	EEC
	Total				24				

	SEMESTE	ER VI							
Course	Course Name	L	T	P	C	Maxi	mum	Marks	Catanan
Code	Course Name	L	1	1		CA	ES	Total	Category
Theory Cour	rse							171	
1701MGX01	Professional Ethics	3	0	0	3	40	60	100	HSS
1702CS601	Web Technology	3	2	0	4	40	60	100	PC
1702CS602	Artificial Intelligence	3	0	-0	3	40	60	100	PC
1702CS603	Distributed Systems	3	0	0	3	40	60	100	PC
1703CS012/17 03MG008	Data Warehousing and Data Mining/Human Rights (Elective III)	3	0	0	3	40	60	100	PE
	Global Warming and Climate Change/Soft Computing/Industrial Robotics Elective IV(Open)	3	0	0	3	40	60	100	OE
Laboratory C	Course	***						11	
1702CS651	Web Technology Laboratory	0	0	2	1	50	50	100	PC
1704CS652	Mobile Application Development Laboratory (Mini Project II)	0	0	2	1	50	50	100	EEC
1704CS653	Industrial Visit Presentation	0	0	0	1	100	-	100	EEC
1704GE651	Life Skills: Aptitude-II	0	0	2	1	100		100	EEC
I I I I I I I I I I I I I I I I I I I	Total				23				

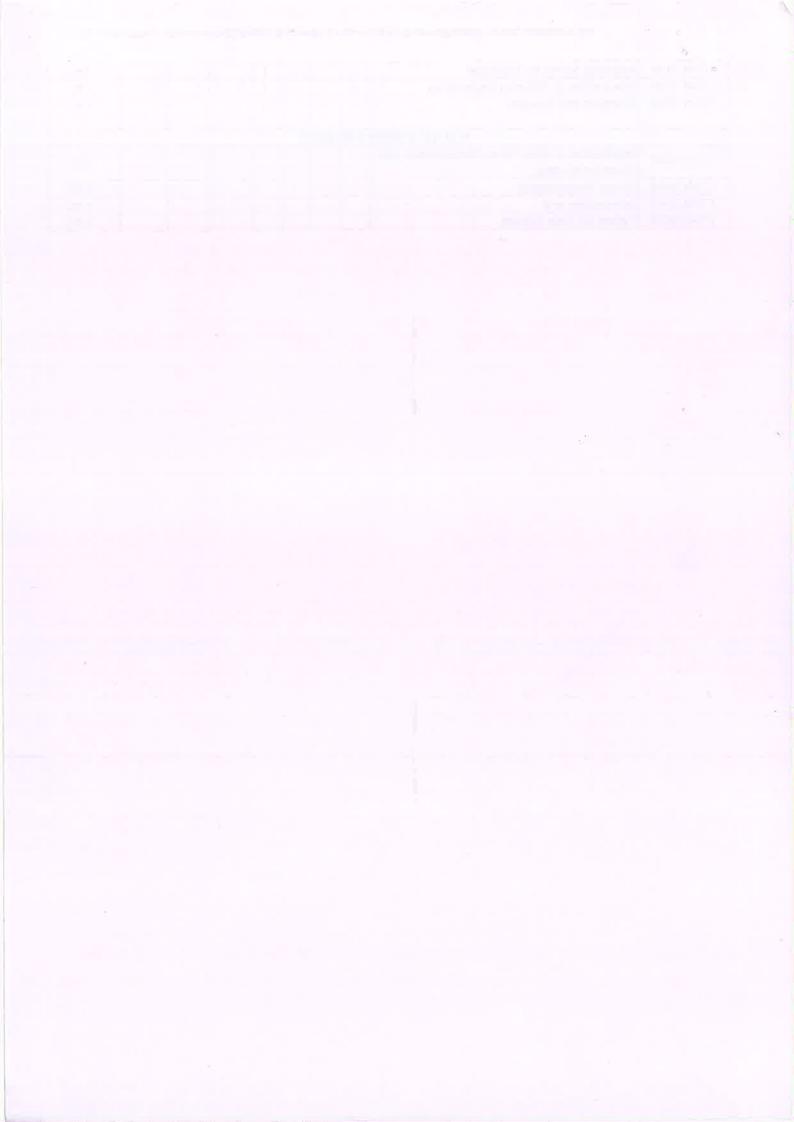
111111111111	SEMESTE	R VI	I				THE	-	
Course	Course Name	т	Т	P	C	Maximum Marks			Cata
Code	Course Name	L		I		CA	ES	Total	Category
Theory Cour	se							41, 1116	
1702CS701	Cryptography and Network Security	3	0	0	3	40	60	100	PC
1702CS702	Software Project Management	3	0	0	3	40	60	100	PC
1702CS703	Big Data Analytics	3	0	0	3	40	60	100	PC
1702CS704	Cloud Computing	3	0	0	3	40	60	100	PC
1703CS001	Service oriented Architecture (Elective V)	3	0	0	3	40	60	100	PE
1703ED001	Startup Entrepreneurship (Elective VI(Open))	3	0	0	3	40	60	100	OE
Laboratory (Course								
1702CS751	Cloud Computing Laboratory	0	0	2	1	50	50	100	PC
1702CS752	Network Security Laboratory	0	0	2	1	50	50	100	PC
1704CS753	Software Development Laboratory (Mini Project III)	0	0	2	1	50	50	100	EEC
1704GE751	Life Skills: Competitive Exams Preparation	2	0	0	2	100	14	100	EEC
1704CS754	In-plant Training / Internship Presentation	0	0	0	1	100	-	100	EEC
	Total				24				

	SEMESTE	R VI	II						SWE
Course Code	Course Name	_	Т	P	C	Maxi	Marks	a	
	Course Name	L	1			CA	ES	Total	Category
Theory Cour	se								
1703CS024	Bioinformatics(Elective VII)	3	0	0	3	40	60	100	PE
1703CS027	Data Centre and Virtualization (Elective VIII)	3	0	0	3	40	60	100	PE
1703CS035	Social Network Analysis (Elective IX)	3	0	0	3	40	60	100	PE
Laboratory (Course							Mi A	
1704CS851	Project Work	0	0	18	9	50	50	100	EEC
	Total				18				

List of Programme Electives for B.E. - Computer Science and Engineering

Course	Course Name	L	L T P C Maximum Marks			Category				
Code						CA	ES	Total		
		TIVE - I		,						
1703CS016	Wireless Communications	3	0	()	3	40	60	100	DF.	
1703CS002	Software Testing	3	0	0	3	40	60	100	PE	
1703CS003	Information Management	3	0	0	3	40	60	100	PE	
1703CS004	C# and .NET framework	3	0	0	3	40	60	100	PE	
1703CS005	Advanced Database Technology	3	0	0	3	40	60	100	PE	
	ELEC	TIVE - II								
1703CS006	Mobile Computing	3	0	0	3	40	60	100	PE	
1703CS007	Network Analysis and Management	3	0	0	3	40	60	100	PE	
1703CS008	Open Source Programming	3	0	0	3	40	60	100	PE	
1703CS009	Ad hoc and Sensor Networks	3	0	0	3	40	60	100	PE	
1703CS010	Digital Signal Processing	3	0	0	3	40	60	100	PE	
1	ELEC	TIVE - II	I							
1703CS011	Complier Design	3	0	0	3	40	60	100	PE	
703MG002	Total Quality Management	3	0	0	3	40	60	100	PE	
1703CS012	Data Warehousing and Data Mining	3	0	0	3	40	60	100	PE	
1703CS012	Disaster Management	3	0	0	3	40	60	100	PE	
703MG008	Human Rights	3	0	0	3	40	60	100	PE	
7031110000		CTIVE - V				. , ,	00	100	12	
1703CS001	Service Oriented Architecture	3	0	0	3	40	60	100	PE	
1703CS017	Digital Image Processing	3	0	0	3	40	60	100	PE	
703CS017	Embedded and Real Time Systems	3	0	0	3	40	60	100	PE	
1703CS019	Game Programming	3	0	0	3	40	60	100	PE	
703CS020	Knowledge Management	3	0	0	3	40	60	100	PE	
170308020		TIVE - V				10	00	100	112	
1703CS021	Deep Learning	3	0	0	3	40	60	100	PE	
1703CS021	Natural Language Processing	3	0	0	3	40	60	100	PE	
1703CS022	Soft Computing	3	0	0	3	40	60	100	PE	
1703CS023	Bioinformatics	3	0	0	3	40	60	100	PE	
1703CS024	Human Computer Interaction	3	0	0	3	40	60	100	PE	
170305023	·	rive - Vi		0)	10	00	100	12	
1703CS026	Enterprise Resource Planning	3	0	0	3	40	60	100	PE	
1703CS020	Data Centre and Virtualization	3	0	0	3	40	60	100	PE	
1703CS027	Growth Hacking	3	0	0	3	40	60	100	PE	
1703CS028 1703CS029	Information Retrieval	3	0	0	3	40	60	100	PE	
1703CS029 1703CS030	Cyber Forensics	3	0	0	3	40	60	100	PE	
1703CS030	Cyber Forensics	3	U	U	3	40	00	100	FE	
	FIFC	TIVE - IX	7					-		
1703CS031	Internet of Things	3	0	0	3	40	60	100	PE	
1703CS031	Mainframe Computing	3	0	0	3	40	60	100	PE	
1703CS032	Multicore Architecture	3	0	0	3	40	60	100	PE	
1703CS033	Graph Theory and Its Applications	3	0	0	3	40	60	100	PE	
1703CS034 1703CS035	Social Network Analysis	3	0	0	3	40	60	100	PE	
10203033	Social Network Alialysis	3	0	0)	40	00	100	I L	
	OPEN	ELECTIV	VE.							
1703CS036	Database Management Systems	3	0	0	3	40	60	100	OE	
1703CS030	Web Technology	3	0	0	3	40	60	100	OE	
1703CS037	Operating Systems	3	0	0	3	40	60	100	OE	
1703CS038	Computer Graphics and Multimedia	3	0	0	3	40	60	100	OE	
1703CS039	Software Engineering	3	0	0	3	40	60	100	OE	
1703CS040	Artificial Intelligence	3	0	0	3	40	60	100	OE	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ONE CRE					70	00	100	OL.	
1704CS042	Hardware and troubleshooting	D11 C00	TOE.	5	1-1				OC	
17040042	Networking Course	-	- 7.	-	1				OC	

1704CS044	Industrial Safety for Engineers	-	*	-	1	OC
1704CS045	Introduction to Fisheries Engineering	i.e.	in.	-	1	OC
1704CS046	Transport and Tourism	æ	Ψ.	8	1	OC
	VALUE ADDED	COL	URSI	ES		
1704CS047	Introduction to Data Centre Virtualization and					VAC
170403047	Cloud Computing					VAC
1704CS048	Python Programming					VAC
1704CS049	Introduction to R					VAC
1704CS050	Python for Data Science					VAC



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E.G.S. PILLAY ENGINEERING COLLEGE

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Nagore Post, Nagapattinam – 611 002, Tamilnadu.

B.E - Computer Science and Engineering

1.1.2 Details of programmes where syllabus revision was carried out during the year

2021-22

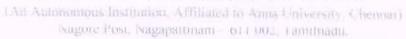
Course Code	Course Name	Change Details	Percentage of Change
1901MA102	Engineering Mathematics –I		0
1901CH104	Applied Chemistry in Informatics		0
1901GEX03	Programming for Problem Solving		0
1901ENX01	English for Engineers		0
1901GEX52	Computer Programming Laboratory		0
1901GE151	Engineering Intelligence I		0
1901CHX51	Engineering Chemistry Laboratory		0
1901HSX51	Communication Skill Laboratory	i de la	0
1901MA202	Engineering Mathematics –II		0
1901PH201	Physics for Information Science		0
1901GEX01	Basic Electrical and Electronics Engineering		0
1901GEX02	Engineering Graphics		0
1901GE201	Engineering Exploration		0
1901GE254	Computer Hardware and IT Essentials Lab		0
1901GE252	Engineering Intelligence - II		0
1901GEX51	CAD Lab		0
1901GEX53	Basic Electrical and Electronics Engineering Lab		0
1901PHX51	Engineering Physics Lab		0
1901MA302	Engineering Mathematics III		0
1902CS301	Data Structures		0
1902CS302	Object Oriented Programming		0
1902CS303	Computer Organization and Architecture		0
1902CS304	Digital Logic and Microprocessors		0
1901MCX02	Constitution of India		0
1902CS351	Data Structures Laboratory		0
1902CS352	Object Oriented Programming Laboratory		0
1904GE351	Life Skills: Soft Skills		0
1902CS401	Software Engineering		0
1902CS402	Operating System		0
1902CS403	Computer Networks		0
1902CS404	Design and Analysis of Algorithms		0
1902CS406	Database Management Systems		0
1901GEX04	Biology for Engineers		0



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1901MCX01	Environmental Science		0
1902CS451	Networks Laboratory		0
1902CS452	Operating System Laboratory		0
1902CS453	Database Management Systems Laboratory		0
1904GE451	Life Skills: Verbal Ability		0
1901MA501	Discrete Mathematics	Revision	40
1902CS501	Object Oriented Analysis and Design		0
1902CS502	Theory of Computation	Revision	22
1903CS001	Mobile Computing	New Course	100
1901MGX01	Total Quality Management	New Course	100
1901MCX03	Essence of Indian Traditional Knowledge	New Course	100
1902CS551	CASE Tools Laboratory		0
1902CS552	Mobile Application Development Laboratory		0
1904GE551	Life Skills: Aptitude I		0
1902CS601	Compiler Design	New Course	100
1902CS602	Web Technology		0
1902CS603	Artificial Intelligence	Revision	80
1903CS005	Distributed Systems		0
1901HS003	Startup Entrepreneurship	New Course	100
	Open Elective I	New Course	100
1902CS651	Compiler Laboratory	New Course	100
1902CS652	Web Technology Laboratory	77. 6	0
1904CS653	Software Prototype development Lab	New Course	100
1904CS654	Industrial Visit Presentation	D	0
1904GE651	Life Skills: Aptitude II	Revision	10
1702CS701	Cryptography and Network Security		0
1702CS702	Software Project Management	ht-Tunner	0
1702CS703	Big Data Analytics		0
1702CS704	Cloud Computing		0
1703CS001	Service oriented Architecture		0
1703ED001	Startup Entrepreneurship		0
1702CS751	Cloud Computing Laboratory		0
1702CS752	Network Security Laboratory		0
1704CS753	Software Development Laboratory		0
1704GE751	Life Skills: Competitive Exams Preparation		0
1704CS754	In-plant Training / Internship Presentation		0
1704CS734 1703CS024	Bioinformatics		0
1703CS024 1703CS027	Data Centre and Virtualization		0
1703CS035	Social Network Analysis		0
1704CS851	Project Work		0
		Average	16.43







Minutes of Board of Studies (BoS) Meeting

Name of the Department	Computer Science and Engineering
Name of the Programmes	B.E. Computer Science and Engineering M.E. Computer Science and Engineering
Meeting No.	06
Date & Time	23.12.2020&10.00 AM
Venue	Online Meeting: Zoom https://zoom.us/j/91200436101?pwd=dGRuc3RXNGRkbUpwVEJEeVFUR0o3UT09

The names of the members present in the Board of Studies are given in Annexure I.

- 1. Chairman / BoS welcomed all members for the 6th meeting of Board of Studies.
- 2. Chairman / BoS introduced the members.
- 3. Chairman / BoS briefed the members about the Agenda.
 - Discussion and action taken about previous meeting
 - To finalize the curriculum and syllabi of new Regulations 2021 for M.E. CSE PG Programmes Curriculum and 1st to 2nd Semester Syllabi and Syllabi of 5th to 7th Semester B.E. CSE Programme.
 - Any other matters.
- 4. The following are the suggestions given by the member of Board of Studies
 - The Board of Studies members have gone through the curriculum and Syllabus of new PG M.E. Regulations 2021 for M.E. CSE PG Programmes Curriculum and 1st to 2nd Semester Syllabi and Syllabi of 5th to 7th Semester B.E. CSE Programme under UG Regulation 2019
 - New Regulations 2021 for PG M.E. Programmes were analyzed and discussed

The Bart Treesant

- Vision. Mission, POs and PSOs of the CSE programmes are reviewed with the new regulations curriculum and syllabi
- Some of the important courses like Essence of Indian Traditional Language,
 TQM and Computer Graphics and Multimedia were added in the UG
 Curriculum.
- o It is recommended to purchase of new versions of Computers for strengthening the advanced technology usage by the Students
- o It is recommended to include the cloud computing laboratory course in the seventh semester
- O To strengthening the students for the industrial exposure to send the students to the industry through internship and industrial visit
- o It is recommended to include the value added and one credit courses and reviewed

• For PG M.E. Programmes

- New Regulations 2021 were discussed and suggested points sent for approval by the Academic Council
- o It is recommended to include the courses like Research oriented and IPR related courses
- O It is recommended to include the Audit courses in the first semester and second semester
- o It is recommended to include the mini project with Seminar concept in the second semester
- The Chairman analyzed the feedback from the stakeholders and draft the new PG M.E. Curriculum and 1st to 2nd Semester Syllabi for approval

Resolutions.

It was resolved to incorporate the suggestions given by the BOS members towards the curriculum and Syllabus of new PG M.E. Regulations 2021 for M.E. CSE PG Programmes Curriculum and 1st to 2nd Semester Syllabi and Syllabi of 5th to 7th Semester B.E. CSE Programme under UG Regulation 2019.

Board of Studies recommended the above resolutions to be presented in the Academic Council for further approval.

Finally the Chairman thanked all the members for their presence and valuable suggestions towards curriculum and Syllabus of new PG M.E. Regulations 2021 for M.E. CSE PG Programmes Curriculum and 1st to 2nd Semester Syllabi and Syllabi of 5th to 7th Semester B.E. CSE Programme under UG Regulation 2019 for the Computer Science and Engineering Board.

Date: 23.12.2020

Place: Nagapattinam

Chairman - BoS (CSE)

CHAIRMAN

Board of Studies

Department of Computer Science & Engineering

EGS Pillay Engineering College (Autonomoust Nagapattinam.



LGS PULLAY ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chenna) Nagore Post, Nagapattinam - 611 002, Tamilnadu.

Board of Studies Meeting

Attendance

Name of the Department

: Computer Science and Engineering

Meeting No.

: 06

Date & Time

: 23.12.2020 & 10.00 A.M.

Venue

: Online Platform- Zoom Meet

S.No	Name	Category			
1	Dr.M.CHINNADURAI	Chairman			
2	Dr.S.MARY SAIRA BHANU	University Nominee			
3	Dr.A.AMUTHAN	Enternal Export Mambara			
4	Dr.M.ARAMUDHAN	External Expert Members			
5	Mr.J.SARATH CHANDAR	Industry/ Corporate Sector			
6	Mr.P.HARIHARAN	Alumnus			
7	Dr.T.GANESAN	0-1			
8	DrN.MURALI				
9	Dr.R.MANIVANNAN				
10	Dr.M.PRIYA	Internal Member			
11	Prof.K.KALAIVANI				
12	12 Prof.K.BALASUBRAMANIAN	*			
13	Prof.G.ARUL SELVAN				

Chairman- BoS (CSE)

CHAIRMAN

Department of Studies
Department of Computer Science &
Engineering Science &
Engineering (Autono
Nayawattinam)

B.E. - Computer Science and Engineering 2019 Regulation: Full Time Curriculum and Syllabus

	SEMESTER I								
Course Code	CourseName		-	P	_	Maxir	Category		
		L	T		C	CA	ES	Total	
Theory Cour	rse								
1901MA102	Engineering Mathematics –I (Calculus and Linear Algebra)	3	2	0	4	40	60	100	BS
1901CH104	Applied Chemistry in Informatics	3	0	0	3	40	60	100	BS
1901GEX03	Programming for Problem Solving	3	0	0	3	40	60	100	ES
1901ENX01	English for Engineers	2	0	0	2	40	60	100	BS
Laboratory (Course								
1901GEX52	Computer Programming Laboratory	0	0	2	1	50	50	100	ES
1901GE151	Engineering Intelligence I	0	0	2	1	100	0	100	HSS
1901CHX51	Engineering Chemistry Laboratory	0	0	2	1	50	50	100	BS
1901HSX51	Communication Skill Laboratory	0	0	2	1	50	50	100	BS
	Total				16				

	SEMESTE	RII							
Course Code	101000 D15 T1					Maximum Marks			Category
	Course Name	L	T	P	C	CA	ES	Total	
Theory Cours	e			***					
1901MA202	Engineering Mathematics –II (Probability and Statistics)	3	2	0	4	40	60	100	BS
1901PH201	Physics for Information Science	3	0	0	3	40	60	100	BS
1901GEX01	Basic Electrical and Electronics Engineering	3	0	0	3	40	60	100	ES
1901GEX02	Engineering Graphics	2	0	2	3	50	50	100	ES
1901GE201	Engineering Exploration	2	0	0	2	100	0	100	ES
11.7	Laboratory C	ourse							
1901GE254	Computer Hardware and IT Essentials Laboratory	0	0	2	1	50	50	100	ES
1901GE252	Engineering Intelligence - II	0	0	2	1	100	0	100	HSS
1901GEX51	CAD Laboratory	0	0	2	1	50	50	100	ES
1901GEX53	Basic Electrical and Electronics Engineering Laboratory	0	0	2	1	50	50	100	ES
1901PHX51	Engineering Physics Laboratory	0	0	2	1	50	50	100	BS
	Total				20				

	SEM	ESTE	CR II	T					
C - C - 1	Comment		T	P		Maxir	Catego		
Course Code	Course Name	L	1,1	P	0	CA	ES	Total	Ty
Theory Cours	č								
1901MA302	Engineering Mathematics III	3	2	()	4	40	60	100	BS
1902CS301	Data Structures	3	2	0	4	40	60	100	PC
1902CS302	Object Oriented Programming	3	0	0	3	40	60	100	PC
1902CS303	Computer Organization and Architecture	3	0	0	3	40	60	100	PC
1902CS304	Digital Logic and Microprocessors	3	0	2	4	40	60	100	ES
1901MCX02	Constitution of India	2	0	0	0	100	0	100	MC
Laboratory C	Course								
1902CS351	Data Structures Laboratory	0	0	2	1	50	50	100	PC
1902CS352	Object Oriented ProgrammingLaboratory	0	0	2	1	50	50	100	PC
1904GE351	Life Skills: Soft Skills	0	0	2	1	100	(+	100	EEC
	Total				21				

	SEMES	STER	IV						
Course	Course Name	L	Т	P	C	N	um	Categ	
Code	AND DESCRIPTION OF THE PARTY OF					CA	ES	Total	ory
Theory Cour	se								
1902CS401	Software Engineering	3	0	0	3	40	60	100	PC
1902CS402	Operating System	3	0	0	3	40	60	100	PC
1902CS403	Computer Networks	3	0	0	3	40	60	100	PC
1902CS404	Design and Analysis of Algorithms	3	0	0	3	40	60	100	PC
1902CS406	Database Management Systems	3	0	0	3	40	60	100	PC
1901GEX04	Biology for Engineers	3	0	0	3	50	50	100	BS
1901MCX01	Environmental Science	2	0	0	0	100	0	100	MC
Laboratory	Course								
1902CS451	Networks Laboratory	0	0	2	1	50	50	100	PC
1902CS452	Operating System Laboratory	0	0	2	1	50	50	100	PC
1902CS453	Database Management Systems Laboratory	0	0	2	1	50	50	100	PC
1904GE451	Life Skills: Verbal Ability	0	0	2	1	100	-	100	EEC
	Total				22				

	SEMES	TER	V						
Course	Course Name		T	P	C	N	um ks	Categ	
Code						CA	ES	Total	017
Theory Cour	·se								
1901MA501	Discrete Mathematics	3	2	0	4	40	60	100	BS
1902CS501	Object Oriented Analysis and Design	3	0	0	3	40	60	100	PC
1902CS502	Theory of Computation	3	2	0	4	40	60	100	PC
	PC Elective I	3	0	0	3	40	60	100	PE
	HSS Elective I	3	0	0	3	40	60	100	HSSE
1901MCX03	Essence of Indian Traditional Knowledge	2	0	0	0	100	0	100	MC
Laboratory	Course								
1902CS551	CASE Tools Laboratory	0	0	2	1	50	50	100	PC
1902CS552	Mobile Application Development Laboratory	0	0	2	.1	50	50	100	PC
1904GE551	Life Skills: Aptitude I	0	0	2	1	100	-	100	EEC
	Total				20				

	SEMESTE	RV	'I						
Course	ī	L		_		M	Catego		
Code	Course Name		Т	P	C	CA	ES	Tot al	ry
Theory Co	urse								
1902 <u>CS601</u>	Compiler Design	3	0	0	3	40	60	100	PC
1902CS602	Web Technology	3	2	0	4	40	60	100	PC
1902CS603	Artificial Intelligence	3	0	0	3	40	60	100	PC
	PC Elective II	3	0	0	3	40	60	100	PE
	HSS Elective II	3	0	0	3	40	60	100	HSSE
	Open Elective I	3	0	0	3	40	60	100	OE
Laboratory	Course								
1902CS651	Compiler Laboratory	0	0	2	1	50	50	100	PC
1902CS652	Web Technology Laboratory	0	0	2	1	50	50	100	PC
1904CS653	Software Prototype development Lab (Mini Project 1)	0	0	2	1_	50	50	100	PC
1904CS654	Industrial Visit Presentation	0	0	0	1	100	-	100	EEC
1904GE651	Life Skills: Aptitude II	0	0	2	1	100	-	100	EEC
	Total				24				

	SEMES	TER	VII						
Course	77 N		-	P	C		ım	Catego	
Code	Course Name	L	T			CA	ES	al	I.A.
Theory Cou	irse								
1902CS701	Cloud Computing	3	0	0	3	40	60	100	PC
1902CS702	Cryptography and Network Security	3	0	0	3	40	60	100	PC
1901MG701	Universal Human Values and Ethics	3	0	0	3	40	60	100	PC
	PC Elective III	3	0	0	3	40	60	100	PE
	HSS Elective III	3	0	0	3	40	60	100	HSSE
	Open Elective II	3	0	0	3	40	60	100	OE
Laboratory	Course		40						
1902CS751	Cloud Computing Laboratory	0	0	2	1	50	50	100	PC
1902CS752	Network Security Laboratory	0	0	2	1	50	50	100	PC
1904CS753	Software Development Laboratory (Mini Project II)	0	0	2	1	50	50	100	PC
1904GE751	Life Skills: Comprehensive Viva	2	0	0	2	100	-	100	EEC
1904GE752	In plant training/Internship	:+::		-	- 1	100	. er	100	EEC
	Total				24				

	SEMES	TER	VIII			710			
Сонисо			Т			Max	Marks	Cat	
Course Code	Course Name	L		P	C	CA	ES	Total	ego ry
Theory Co	urse								
	PC Elective IV	3	0	0	3	40	60	100	PE
	PC Elective V	3	0	0	3	40	60	100	PE
Laboratory	Course								
•	Project Work	0	0	14	7	50	50	100	EEC
	Total				13				

		ONE CREDIT COURSES				
29	1904CS001	Hardware and troubleshooting	-	=	-:	1
30	1904CS002	Networking Course	+	100	100	1
31	1904CS003	Industrial Safety for Engineers	-	-		1
32	1904CS004	Introduction to Fisheries Engineering	8	12	1,5	1
33	1904CS005	Transport and Tourism	-		-	1
		VALUE ADDED COURSES				
34	1904CS006	Introduction to Data Centre Virtualization and Cloud Computing				
35	1904CS007	Python Programming				
36	1904CS008	Introduction to R				
37	1904CS009	Python for Data Science				

Humanities, Social Science and Management Electives Courses

S.No.	Course Code	Name of the Course	Num	Credit		
		All 7-Hitel	L	T	P	
		Elective I				
1.	1901MGX01	Total Quality Management	3) * :	3
2.	1901MGX02	Project Management and Finance	3	==		3
3.	1901MGX03	Operations Research	3		100	3
4.	1901MGX04	Principles of Management	3	-	2	3
		Elective II				
1.	1901HS001	Innovation & Entrepreneurship	3		-	3
		fundamentals				
2.	1901HS002	Intellectual Property Rights for Engineers	3	1#5	-	3
3.	1901HS003	Startup Entrepreneurship	3	-		3
4.	1901HS004	Business Model Innovation	3	1-	=	3
		Elective III				
1.	1901HS005	Social Entrepreneurship	3		2	3
2.	1901HS006	Design Thinking for Innovation	3	-	-	3
3.	1901HS007	Indian Patent Law &Patent Drafting	3	-	- 27	3
4.	1901HS008	IP Management & Commercialization	3	794	*	3

PC ELECTIVE COURSES

SI.	Course Name of the Course Code			mbe lour		Credit
			V	Veek		
			L	\mathbf{T}	P	
		Elective I				
1	1903CS001	Mobile Computing	3	0	0	3
2	1903CS002	Computer Graphics and Multimedia	3	0	0	3
3	1903CS003	Data Warehousing and Data Mining	3	0	0	3
4	1903CS004	Software Testing	3	0	0	3
		Elective II				
5	1903CS005	Distributed systems	3	0	0	3
6	1903CS006	OpenSource Programming	3	0	0	3
7	1903CS007	Adhoc and sensor networks	3	0	0	3
8	1903CS008	Multicore Architecture	3	0	0	3
		Elective III		. — — — — — — — — — — — — — — — — — — —);
9	1903CS009	Embedded and Real Time Systems	3	0	0	3
10	1903CS010	Internet of things	3	0	0	3
11	1903CS011	Digital image processing	3	0	0	3
12	1903CS012	C# and .Net Framework	3	0	0	3
		Elective IV				
13	1903CS013	Big data Analytics	3	0	0	3
14	1903CS014	Service oriented Architecture	3	0	0	3
15	1903CS015	Machine learning techniques	3	0	0	3
16	1903CS016	Natural Language Processing	3	0	0	3
		Elective V				
17	1903CS017	Information Retrieval	3	0	0	3
18	1903CS018	Cyber forensics	3	0	0	3
19	1903CS019	Data Centre and Virtualization	3	0	0	3
20	1903CS020	Bio Informatics	3	0	0	3

S.No.	Course Code	Name of the Course		Number of Hours / Week				
			L	Т	P			
		OPEN ELECTIVE COURS	SES					
21	1903CS021	Computer Networks	3	0	0	3		
22	1903CS022	Artificial Intelligence	3	0	0	3		
23	1903CS023	Database Management Systems	3	0	0	3		
24	1903CS024	Web Technology	3	0	0	3		
25	1903CS025	Data Structures	3	0	0	3		
26	1903CS026	Object oriented Programming	3	0	0	3		
27	1903CS027	Cloud Computing	3	0	0	3		
28	1903CS028	Mobile Computing	3	0	0	3		