



# **SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY**

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu)

(Accredited by NBA for Civil, EEE, Mech., ECE & CSE

Accredited by NAAC with 'A' Grade)

Puttur -517583, Chittoor District, A.P. (India)

## **DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS**

### **BOARD OF STUDIES MINUTES OF MEETING**

<b>S. No</b>	<b>Date</b>	<b>BOARD OF STUDIES MINUTES OF MEETING</b>	<b>PageNo.</b>
1	08-07-2016	01	02-09
2	18-06-2018	02	10-17
3	14-08-2019	03	18-25
4	28-08-2020	04	26-33

**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR**  
**(AUTONOMOUS)**

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**1<sup>ST</sup> BOS Meeting of Master of Computer Applications (MCA)**

Date: 08-07-2016

The 1<sup>st</sup> meeting of Board of Studies (BOS) in Master of Computer Applications is held on 08<sup>th</sup> July, 2016 in the Department of Master of Computer Applications, Siddharth Institute of Engineering & Technology, Puttur, Chittoor District.

**As per the UGC (University Grant Commission) guidelines, the Choice Based Credit System (CBCS) and electives have been implemented in the curriculum.**

Prof. S. Choudaiah, Chairman BOS chaired the meeting and welcomed all the members to the First BOS meeting and discussed about the following agenda.

**Agenda:**

1. Approval of course structure for 3 years w.e.f., A.Y. 2016-17.
2. Approval of syllabus for I, II & III years w.e.f., A.Y. 2016-17.
3. Approval of syllabus for the subjects offered to other Departments w.e.f. 2016-17.
4. Approval of Panel of Question Paper setters.
5. Approval of Panel of Examiners.
6. Any other item

After a brief introduction the agenda items listed above were taken up for discussion and the following resolutions were passed.

**Minutes:**

**Agenda: 1**

Approval of course structure for 3 years w.e.f., A.Y.2016-17

**Resolution: 1**

After detailed discussion the BOS resolved to approve the course structure for 3 years of MCA (given in **Annexure –I**) applicable from the A.Y.2016-17.

**Agenda: 2**

Approval of syllabus for 3 years in MCA w.e.f., A.Y.2016-17

**Resolution: 2**

After the thorough discussion syllabus was framed to make the students acquire the required technical knowledge and skills. The BOS resolved to approve the syllabi framed for the I, II & III year MCA (given in **Annexure-II**).

**A. Course & Syllabus Comparison**

With reference to the R09 regulations, the new regulation (R16) syllabus for 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> year has the following modifications, which are given in the below table.

S.No	R09 Regulation	R16 Regulation	Percentage of course content changed
1	Probability and Statistics	Probability & Statistics	0
2	English Language Communication Skills	Functional English	0
3	Accounting and Financial Management	Accounting & Financial Management	0
4	Mathematical Foundations of computer science	Mathematical Foundations of Computer Science	0
5	Data Structures	Data Structures	0
6	Data Structures through C-lab	Data Structures through C Lab	0
7	IT Workshop	P. C. Software Lab	0
8	English Language Communication Skills Lab	English Language and Communication Skills Lab	0

S.No	R09 Regulation	R16 Regulation	Percentage of course content changed
9	Computer Organization	Computer Organization	0
10	Operating Systems	Operating Systems	0
11	Database Management Systems	Database Management Systems	0
12	Computer Networks	Computer Networks	0
13	Linux Programming	Linux Programming	0
14	Software Engineering	Software Engineering	0
15	Java Programming	OOPs through Java	0
16	Database Management Systems Lab	Database Management Systems Lab	0
17	Java and Linux Programming Lab	Java Programming Lab	0
18	Web Technologies	Web Technologies	0
19	Data Warehousing and Mining	Data Warehousing and Mining	0
20	Information Security	Information Security	0
21	.NET Technologies	.NET Technologies	0
22	Computer Graphics	Computer Graphics	0
23	Distributed Systems	Distributed Systems	0
24	Social Networks and Semantic Web	Social Networks and Semantic Web	0
25	Web Technologies Lab	Web Technologies Lab	0
26	Data Warehousing and Mining Lab	Data Warehousing and Mining Lab	0
27	Mobile Application Development	Mobile Application Development	0
28	Software Testing	Software Testing	0
29	Object Oriented Analysis and Design(using UML)	Object Oriented Analysis and Design (Using UML)	0
30	Software Project Management	Software Project Management	0
31	Information Retrieval Systems	Information Retrieval Systems	0
32	Design Patterns	Design Patterns	0
33	Mobile Application Development Lab	Mobile Application Development Lab	0

S.No	R09 Regulation	R16 Regulation	Percentage of course content changed
34	Software Testing Lab and UML Lab	UML Lab	0
35		Computer Programming and Problem Solving	100
36		C Programming Lab	100
37		Professional English	100
38		Aptitude Practice – I	100
39		Geological Information Systems	100
40		Operating Systems and Linux Programming Lab	100
41		Software Engineering Lab	100
42		Computer Graphics Lab	100
43		Aptitude Practice - II	100
44		Comprehensive Soft Skills	100
45		Big Data Analytics	100
46		Neural Networks& Fuzzy logic	100
47		Service Oriented Architecture	100
48		Cyber Security	100
49		Image Processing	100
50		Artificial Intelligence	100
51		M-Commerce	100
52		Cloud Computing	100
53		Cognitive Computing	100
54		Software Project Management Lab	100
55		Advanced English Language and Communication Skills Lab	100

**Consolidated Sheet**

Course	Total courses	Percentage of syllabus changed
MCA	55	38.18

## B. Course Relevance

The courses that comes under the category of Employability, Skill or Entrepreneurship development are shown in the table below.

S. No.	Course Title	Course Code	Relevance
1	Functional English	16HS601	Skill Development
2	Mathematical Foundations of Computer Science	16HS618	Skill Development
3	Computer Programming and Problem Solving	16MC801	Employability
4	Computer Organization	16MC802	Skill Development
5	English Language and Communication Skills Lab	16HS607	Skill Development
6	P. C. Software Lab	16MC803	Skill Development
7	C Programming Lab	16MC804	Employability
8	Professional English	16HS610	Skill Development
9	Accounting & Financial Management	16MB749	Skill Development
10	OOPs through Java	16MC805	Employability
11	Data Structures	16MC806	Employability
12	Database Management Systems	16MC807	Employability
13	Java Programming Lab	16MC808	Employability
14	Data Structures through C Lab	16MC809	Employability
15	Database Management Systems Lab	16MC810	Employability
16	Aptitude Practice – I	16HS616	Skill Development
17	Computer Networks	16MC811	Employability
18	Object Oriented Analysis and Design (Using UML)	16MC812	Skill Development
19	Operating Systems	16MC813	Skill Development
20	Linux Programming	16MC814	Skill Development
21	Data Warehousing and Mining	16MC815	Employability
22	UML Lab	16MC816	Skill Development
23	Operating Systems and Linux Programming Lab	16MC817	Skill Development

24	Data Warehousing and Mining Lab	16MC818	Skill Development
25	Comprehensive Online Examination-I	COE-I	Skill Development
26	Comprehensive Soft Skills	16HS614	Skill Development
27	Software Engineering	16MC819	Skill Development
28	Web Technologies	16MC820	Skill Development
29	Computer Graphics	16MC821	Skill Development
30	Big Data Analytics	16MC822	Employability
31	Neural Networks& Fuzzy logic	16MC823	Skill Development
32	Distributed Systems	16MC824	Skill Development
33	Service Oriented Architecture	16MC825	Skill Development
34	Information Security	16MC826	Skill Development
35	Social Networks and Semantic Web	16MC827	Skill Development
36	Geological Information Systems	16MC828	Skill Development
37	.NET Technologies	16MC829	Employability
38	Software Engineering Lab	16MC830	Skill Development
39	Web Technologies Lab	16MC831	Skill Development
40	Computer Graphics Lab	16MC832	Skill Development
41	Comprehensive Online Examination-II	COE-II	Skill Development
42	Aptitude Practice - II	16HS617	Skill Development
43	Software Testing	16MC833	Employability
44	Mobile Application Development	16MC834	Employability
45	Software Project Management	16MC835	Skill Development
46	Cyber Security	16MC836	Employability
47	Image Processing	16MC837	Employability
48	Artificial Intelligence	16MC838	Skill Development
49	Information Retrieval Systems	16MC839	Skill Development
50	M-Commerce	16MC840	Skill Development
51	Cloud Computing	16MC841	Employability
52	Design Patterns	16MC842	Skill Development

53	Cognitive Computing	16MC843	Skill Development
54	Software Testing Lab	16MC844	Employability
55	Mobile Application Development Lab	16MC845	Employability
56	Software Project Management Lab	16MC846	Skill Development
57	Advanced English Language and Communication Skills Lab	16HS615	Skill Development
58	seminar	16MC847	Skill Development
59	Dissertation	16MC848	Skill Development

Modifications described above are carried out to the curriculum after discussions in the BoS by considering the feedback/suggestions from the stakeholders viz. students, alumni, faculty and employers.

**Agenda: 3**

Approval of syllabus for the subjects offered to other departments w.e.f. 2016-17.

**Resolution: 3**

After the thorough discussion syllabus was framed for the following subjects offered to the other departments (given in **Annexure-III**).

- a. Fundamentals of Computer & Information System – I MBA – I SEM (MBA)
- b. Fundamentals of Computer & Information System Lab – I MBA – I SEM (MBA)

**Agenda: 4**

Approval of Panel of Question Paper setters

**Resolution: 4**

Approved the panel of Question Paper setting (given in **Annexure –IV**) to be submitted to the college academic council for approval.

**Agenda: 5**

Approval of Panel of Examiners.


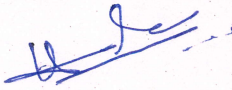
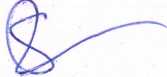
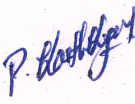

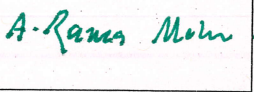
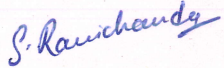
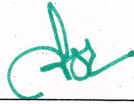
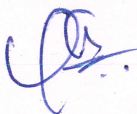
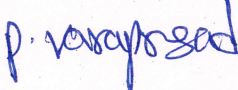
**Resolution: 5**

Approved the panel of Examiners prepared for valuation (given in **Annexure –V**) to be submitted to the college academic council for approval.



The above items were discussed, debated and the necessary approval was accorded by the BOS. The meeting was concluded with vote of Thanks proposed by the Chairman-BOS.

### Members Present

S. No.	Name of the Member	Designation / Organization	Role of the BOS	Signature
1	Prof. S. Choudaiah	Professor & HOD – SIETK	Chairman	
2	Mr. R.E. Hari Haran	Associate Professor – SIETK	Member	
3	Mrs. A. Swarupa Rani	Associate Professor – SIETK	Member	
4	Mr. P. Karthikeyan	Associate Professor – SIETK	Member	
5	Mr. B. Mohinder Singh	Associate Professor – SIETK	Member	
6	Dr. A. Rama Mohan Reddy	Professor, Dept. of CSE, S.V. University, Tirupati	Member	
7	Dr. S. Ravichandra	Assistant Professor, Dept. of CSE, NIT, Warangal.	Member	
8	Dr. A. Suresh Babu	Associate Professor, Dept. of CSE, JNTUA, Anantapuramu	Member	
9	Mr. Umar Kunuturi	Sr. Software Engineer, Tecnotree Convergence Ltd., Bangalore	Member	
10	Mr. P. Varaprasad	Sr. Software Engineer, Hewlett Packed Enterprise Services Private Limited, Chennai.	Member	

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**2<sup>nd</sup> BOS Meeting of Master of Computer Applications (MCA)**

Date: 18-06-2018

The 2<sup>nd</sup> meeting of Board of Studies (BOS) in Master of Computer Applications is held on 18<sup>th</sup> June, 2018 in the Department of Master of Computer Applications, Siddharth Institute of Engineering & Technology, Puttur, Chittoor District.

As per the UGC (University Grant Commission) guidelines, the Choice Based Credit System (CBCS) and electives have been implemented in the curriculum.

Prof. S. Choudaiah, Chairman BOS chaired the meeting and welcomed all the members to the Second BOS meeting and discussed about the following agenda.

**Agenda:**

1. Approval of course structure for 3 years w.e.f. A.Y.2018-19.
2. Approval of syllabus for I, II & III years w.e.f. A.Y.2018-19.
3. Approval of syllabus for the subjects offered to other Departments w.e.f. 2018-19.
4. Approval of Panel of Question Paper setters.
5. Approval of Panel of Examiners.
6. Any other item

After a brief introduction the agenda items listed above were taken up for discussion and the following resolutions were passed.

**Minutes:**

**Agenda: 1**

Approval of course structure for 3 years w.e.f. A.Y.2018-19

**Resolution: 1**

After detailed discussion the BOS resolved to approve the course structure for 3 years of MCA (given in **Annexure –I**) applicable from the A.Y.2018-19.

**Agenda: 2**

Approval of syllabus for 3 years in MCA w.e.f. A.Y.2018-19

**Resolution: 2**

After the thorough discussion syllabus was framed to make the students acquire the required technical knowledge and skills. The BOS resolved to approve the syllabi framed for the I, II & III year MCA (given in **Annexure-II**).

**A. Course & Syllabus Comparison**

With reference to the R16 regulations, the new regulation (R18) syllabus for 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> year has the following modifications, which are given in the below table.

S.No	R16 Regulation	R18 Regulation	Percentage of course content changed
1	Functional English Professional English	English	40
2	Probability & Statistics	Probability & Statistics	0
3	Accounting & Financial Management	Accounting & Financial Management	0
4	Computer Programming and Problem Solving	Computer Programming and Problem Solving	0
5	P. C. Software Lab	P. C. Software Lab	0
6	C Programming Lab	C Programming Lab	0
7	English Language and Communication Skills Lab	English Lab	40
8	Operating Systems	Operating Systems	0
9	Computer Organization	Computer Organization	0

S.No	R16 Regulation	R18 Regulation	Percentage of course content changed
10	Data Structures	Data Structures	0
11	Database Management Systems	Database Management Systems	0
12	Data Structures through C Lab	Data Structures through C Lab	0
13	Database Management Systems Lab	Database Management Systems Lab	0
14	Computer Networks	Computer Networks	0
15	OOPs through Java	Java Programming	0
16	Software Engineering	Software Engineering	0
17	Linux Programming	Linux Programming	0
18	Data Warehousing and Mining	Data Warehousing and Data Mining	0
19	Java Programming Lab	Java Programming Lab	0
20	Operating Systems and Linux Programming Lab	Linux Programming Lab	0
21	Data Warehousing and Mining Lab	Data Warehousing and Data Mining Lab	0
22	Big Data Analytics	Big Data Analytics	0
23	Web Technologies	Web Technologies	0
24	Software Testing	Software Testing	0
25	Neural Networks & Fuzzy logic	Neural Networks & Fuzzy Logic	0
26	Distributed Systems	Distributed Systems	0
27	Service Oriented Architecture	Service Oriented Architecture	0
28	Social Networks and Semantic Web	Social Networks and Semantic Web	0
29	Computer Graphics	Computer Graphics	0
30	Web Technologies Lab	Web Technologies Lab	0
31	Cloud Computing	Cloud Computing	0
32	Object Oriented Analysis and Design (Using UML)	Object Oriented Analysis and Design using UML	0
33	Software Project Management	Software Project Management	0
34	Artificial Intelligence	Artificial Intelligence	0

S.No	R16 Regulation	R18 Regulation	Percentage of course content changed
35	Information Retrieval Systems	Information Retrieval Systems	0
36	M-Commerce	M-Commerce	0
37	Image Processing	Image Processing	0
38	Design Patterns	Design Patterns	0
39	Cognitive Computing	Cognitive Computing	0
40	UML Lab	UML Lab	0
41		Discrete Mathematics	100
42		Object Oriented Programming through C++	100
43		Programming in C++ Lab	100
44		Design and Analysis of Algorithms	100
45		Human Computer Interaction	100
46		Internet of Things	100
47		Big Data Analytics Lab	100
48		Design and Analysis of Algorithms Lab	100
49		.Net Technologies	100
50		.Net Technologies Lab	100
51		Cloud Computing Lab	100

#### Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
MCA	51	23.13

#### B. Course Relevance

The courses that comes under the category of Employability, Skill or Entrepreneurship development are shown in the table below.

S. No.	Course Title	Course Code	Relevance
1	Computer Programming and Problem Solving	18MC9101	Employability
2	English	18HS0810	Skill Development

S. No.	Course Title	Course Code	Relevance
3	Accounting & Financial Management	18MB9056	Skill Development
4	P. C. Software Lab	18MC9102	Skill Development
5	C Programming Lab	18MC9103	Employability
6	English Lab	18HS0811	Skill Development
7	Operating Systems	18MC9104	Skill Development
8	Computer Organization	18MC9105	Skill Development
9	Object Oriented Programming through C++	18MC9106	Employability
10	Data Structures	18MC9107	Employability
11	Database Management Systems	18MC9108	Employability
12	Programming in C++ Lab	18MC9109	Employability
13	Data Structures through C Lab	18MC9110	Employability
14	Database Management Systems Lab	18MC9111	Employability
15	Aptitude Practice – I	18HS0843	Skill Development
16	Computer Networks	18MC9112	Employability
17	Java Programming	18MC9113	Employability
18	Software Engineering	18MC9114	Skill Development
19	Linux Programming	18MC9115	Skill Development
20	Data Warehousing and Data Mining	18MC9116	Employability
21	Java Programming Lab	18MC9117	Employability
22	Linux Programming Lab	18MC9118	Skill Development
23	Data Warehousing and Data Mining Lab	18MC9119	Employability
24	Comprehensive Soft Skills	18HS0820	Skill Development
25	Big Data Analytics	18MC9120	Employability
26	Web Technologies	18MC9121	Skill Development
27	Design and Analysis of Algorithms	18MC9122	Skill Development
28	Software Testing	18MC9123	Employability
29	Neural Networks & Fuzzy Logic	18MC9124	Skill Development
30	Distributed Systems	18MC9125	Skill Development

S. No.	Course Title	Course Code	Relevance
31	Service Oriented Architecture	18MC9126	Skill Development
32	Human Computer Interaction	18MC9127	Skill Development
33	Social Networks and Semantic Web	18MC9128	Skill Development
34	Computer Graphics	18MC9129	Skill Development
35	Internet of Things	18MC9130	Employability
36	Big Data Analytics Lab	18MC9131	Employability
37	Web Technologies Lab	18MC9132	Skill Development
38	Design and Analysis of Algorithms Lab	18MC9133	Skill Development
39	Aptitude Practice - II	18HS0844	Skill Development
40	.Net Technologies	18MC9134	Employability
41	Cloud Computing	18MC9135	Employability
42	Object Oriented Analysis and Design using UML	18MC9136	Employability
43	Cyber Security	18MC9137	Employability
44	Software Project Management	18MC9138	Employability
45	Artificial Intelligence	18MC9139	Employability
46	Information Retrieval Systems	18MC9140	Skill Development
47	M-Commerce	18MC9141	Skill Development
48	Image Processing	18MC9142	Employability
49	Design Patterns	18MC9143	Employability
50	Cognitive Computing	18MC9144	Employability
51	.Net Technologies Lab	18MC9145	Employability
52	Cloud Computing Lab	18MC9146	Employability
53	UML Lab	18MC9147	Employability
54	Advanced English Language and Communication Skills Lab	18HS0821	Skill Development

Modifications described above are carried out to the curriculum after discussions in the BoS by considering the feedback/suggestions from the stakeholders viz. students, alumni, faculty and employers.



**Agenda: 3**

Approval of syllabus for the subjects offered to other Departments w.e.f. A.Y. 2018-19

**Resolution: 3**

After the thorough discussion syllabus was framed for the following subjects offered to the other departments (given in **Annexure-III**).

a. Fundamentals of Computer & Information System Lab – I MBA – I SEM (MBA)

**Agenda: 4**

Approval of Panel of Question Paper setters

**Resolution: 4**

Approved the panel of Question Paper setting (given in **Annexure –IV**) to be submitted to the college academic council for approval.

**Agenda: 5**

Approval of Panel of Examiners

**Resolution: 5**

Approved the panel of Examiners prepared for valuation (given in **Annexure –V**) to be submitted to the college academic council for approval.

The above items were discussed, debated and the necessary approval was accorded by the BOS. The meeting was concluded with vote of Thanks proposed by the Chairman-BOS.

### Members Present

S. No.	Name of the Member	Designation / Organization	Role of the BOS	Signature
1	Mr. S. Choudaiah	Professor & HOD – SIETK	Chairman	
2	Dr. A. Swarupa Rani	Associate Professor – SIETK	Member	
3	Mr. R.E. Hari Haran	Associate Professor – SIETK	Member	
4	Mr. P. Karthikeyan	Associate Professor – SIETK	Member	
5	Mr. B. Mohinder Singh	Associate Professor – SIETK	Member	
6	Dr. A. Rama Mohan Reddy	Professor, Dept. of CSE, S.V. University, Tirupati	Member	
7	Dr. S. Ravichandra	Associate Professor, Dept. of CSE, NIT, Warangal.	Member	ABSENT
8	Dr. A. Suresh Babu	Associate Professor, Dept. of CSE, JNTUA, Anantapuramu	Member	
9	Mr. Umar Kunturi	Sr. Software Engineer, Tecnotree Convergence Ltd., Bangalore	Member	
10	Mr. P. Varaprasad	Sr. Software Engineer, Hewlett Packed Enterprise Services Private Limited, Chennai.	Member	ABSENT

**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR**  
**(AUTONOMOUS)**

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**3<sup>rd</sup> BOS Meeting of Master of Computer Applications (MCA)**

Date: 14-08-2019

The 3<sup>rd</sup> meeting of Board of Studies (BOS) in Master of Computer Applications is held on 14<sup>th</sup> August, 2019 in the Department of Master of Computer Applications, Siddharth Institute of Engineering & Technology, Puttur, Chittoor District, Andhra Pradesh.

**As per the UGC (University Grant Commission) guidelines, the Choice Based Credit System (CBCS) and electives have been implemented in the curriculum.**

Dr. A. Swarupa Rani, Chairman BOS chaired the meeting and welcomed all the members to the Third BOS meeting and discussed about the following agenda.

**Agenda:**

1. Approval of course structure for 3 years w.e.f. A.Y.2019-20.
2. Approval of syllabus for I, II & III years w.e.f. A.Y.2019-20.
3. Approval of syllabus for the subjects offered to other Departments w.e.f. 2019-20.
4. Approval of Panel of Question Paper setters.
5. Approval of Panel of Examiners.
6. Any other item

After a brief introduction the agenda items listed above were taken up for discussion and the following resolutions were passed.

**Minutes:**

**Agenda: 1**

Approval of course structure for 3 years w.e.f. A.Y.2019 - 20

**Resolution: 1**

After detailed discussion the BOS resolved to approve the course structure for 3 years of MCA (given in **Annexure –I**) applicable from the A.Y.2019 - 20.

**Agenda: 2**

Approval of syllabus for 3 years in MCA w.e.f. A.Y.2019 - 20

**Resolution: 2**

After the thorough discussion syllabus was framed to make the students acquire the required technical knowledge and skills. The BOS resolved to approve the syllabi framed for the I, II & III year MCA (given in **Annexure-II**).

**A. Course & Syllabus Comparison**

With reference to the R18 regulations, the new regulation (R19) syllabus for 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> year has the following modifications, which are given in the below table.

S.No	R18 Regulation	R19 Regulation	Percentage of course content changed
1	English	Communicative English	40
2	Probability & Statistics	Probability & Statistics	0
3	Discrete Mathematics	Discrete Mathematics	0
4	Computer Programming and Problem Solving	Computer Programming and Problem Solving	0
5	Computer Organization	Computer Organization	0
6	English Lab	Communicative English Lab	45
7	C Programming Lab	C Programming Lab	0
8	P. C. Software Lab	P. C. Software Lab	0
9	Accounting & Financial Management	Accounting & Financial Management	0

S.No	R18 Regulation	R19 Regulation	Percentage of course content changed
10	Object Oriented Programming through C++	Object Oriented Programming through C++	0
11	Data Structures	Data Structures	0
12	Operating Systems	Operating Systems	0
13	Programming in C++ Lab	Programming in C++ Lab	0
14	Computer Networks	Computer Networks	0
15	Java Programming	JAVA Programming	0
16	Database Management Systems	Database Management System	0
17	Design and Analysis of Algorithms	Design and Analysis of Algorithms	0
18	Java Programming Lab	JAVA Programming Lab	0
19	Database Management Systems Lab	Database Management System Lab	0
20	Data Warehousing and Data Mining	Data Warehousing and Data Mining	0
21	Web Technologies	Web Technologies	0
22	Software Engineering	Software Engineering	0
23	Software Testing	Software Testing	0
24	Artificial Intelligence	Artificial Intelligence	0
25	Distributed Systems	Distributed Systems	0
26	Linux Programming	Linux Programming	0
27	Human Computer Interaction	Human Computer Interaction	0
28	Social Networks and Semantic Web	Social Networks and Semantic Web	0
29	Computer Graphics	Computer Graphics	0
30	Internet of Things	Internet of Things	0
31	Data Warehousing and Data Mining Lab	Data Warehousing and Data Mining Lab	0
32	Web Technologies Lab	Web Technologies Lab	0
33	Cloud Computing	Cloud Computing	0
34	.Net Technologies	.Net Technologies	0

S.No	R18 Regulation	R19 Regulation	Percentage of course content changed
35	Cyber Security	Cyber Security	0
36	Software Project Management	Software Project Management	0
37	Neural Networks & Fuzzy Logic	Neural Networks & Fuzzy logic	0
38	Big Data Analytics	Big Data Analytics	0
39	Image Processing	Image Processing	0
40	Design Patterns	Design Patterns	0
41	Cloud Computing Lab	Cloud Computing Lab	0
42	.Net Technologies Lab	.Net Technologies Lab	0
43		System Software	100
44		Data Structures through C++ Lab	100
45		Operating Systems Lab	100
46		Advanced Programming (Python & R Languages)	100
47		Advanced Programming Lab	100
48		Network Security	100
49		E-Commerce	100
50		Software Engineering & UML Lab	100
51		Mobile Application Development	100
52		Model Driven Framework	100
53		Bio-informatics	100
54		Machine Learning	100
55		Enterprise Resource Planning	100
56		Mobile Application Development Lab	100

### Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
MCA	56	26.51

#### B. Course Relevance

The courses that comes under the category of Employability, Skill or Entrepreneurship development are shown in the table below.

S. No.	Course Title	Course Code	Relevance
1	Communicative English	19HS0810	Skill Development
2	Computer Programming and Problem Solving	19MC9101	Employability
3	Computer Organization	19MC9102	Skill Development
4	Communicative English Lab	19HS0811	Skill Development
5	C Programming Lab	19MC9103	Employability
6	P. C. Software Lab	19MC9104	Skill Development
7	Accounting & Financial Management	19MB9056	Skill Development
8	Object Oriented Programming through C++	19MC9105	Employability
9	Data Structures	19MC9106	Employability
10	Operating Systems	19MC9107	Employability
11	System Software	19MC9108	Skill Development
12	Programming in C++ Lab	19MC9110	Employability
13	Data Structures through C++ Lab	19MC9111	Employability
14	Computer Networks	19MC9112	Employability
15	JAVA Programming	19MC9113	Employability
16	Database Management System	19MC9114	Employability
17	Advanced Programming (Python & R Languages)	19MC9115	Employability
18	Design and Analysis of Algorithms	19MC9116	Employability
19	JAVA Programming Lab	19MC9117	Employability
20	Database Management System Lab	19MC9118	Employability
21	Advanced Programming Lab	19MC9119	Employability
22	Comprehensive Soft Skills(Audit	19HS0820	Skill Development

S. No.	Course Title	Course Code	Relevance
	Course)		
23	Data Warehousing and Data Mining	19MC9120	Employability
24	Web Technologies	19MC9121	Employability
25	Software Engineering	19MC9122	Employability
26	Software Testing	19MC9123	Employability
27	Artificial Intelligence	19MC9124	Employability
28	Distributed Systems	19MC9125	Employability
29	Linux Programming	19MC9126	Employability
30	Network Security	19MC9127	Employability
31	Human Computer Interaction	19MC9128	Skill Development
32	Social Networks and Semantic Web	19MC9129	Skill Development
33	Computer Graphics	19MC9130	Employability
34	Internet of Things	19MC9131	Employability
35	E-Commerce	19MC9132	Skill Development
36	Data Warehousing and Data Mining Lab	19MC9133	Employability
37	Web Technologies Lab	19MC9134	Employability
38	Software Engineering & UML Lab	19MC9135	Employability
39	Aptitude Practice – II	19HS0844	Skill Development

Modifications described above are carried out to the curriculum after discussions in the BoS by considering the feedback/suggestions from the stakeholders viz. students, alumni, faculty and employers.

**Agenda: 3**

Approval of syllabus for the subjects offered to other Departments w.e.f. A.Y. 2019 - 20

**Resolution: 3**

After the thorough discussion syllabus was framed for the following subjects offered to the other departments (given in **Annexure-III**).

a. Fundamentals of Computer & Information System Lab – I MBA – I SEM (MBA)



**Agenda: 4**

Approval of Panel of Question Paper setters

**Resolution: 4**

Approved the panel of Question Paper setting (given in **Annexure –IV**) to be submitted to the college academic council for approval.

**Agenda: 5**

Approval of Panel of Examiners

**Resolution: 5**

Approved the panel of Examiners prepared for valuation (given in **Annexure –V**) to be submitted to the college academic council for approval.

The above items were discussed, debated and the necessary approval was accorded by the BOS. The meeting was concluded with vote of Thanks proposed by the Chairman-BOS.

### Members Present

S. No.	Name of the Member	Designation / Organization	Role of the BOS	Signature
1	Dr. A. Swarupa Rani	Professor & HOD – SIETK	Chairman	Dr. A. Swarupa Rani
2	Mr. P. Karthikeyan	Associate Professor – SIETK	Member	
3	Mr. P. Balaji	Associate Professor – SIETK	Member	
4	Mr. J. S. Ananda Kumar	Assistant Professor – SIETK	Member	
5	Ms. P. Sukanya	Assistant Professor – SIETK	Member	
6	Dr. M. Usha Rani	Professor, Dept. of CSE, SPMVV, Tirupati	Member	
7	Dr. Ch. D.V. Subba Rao	Professor, Dept. of CSE, S. V. University college of Engineering, Tirupati.	Member	 14/8/19
8	Dr. R. Rajeswara Rao	Professor, Dept. of CSE, JNTU Kakinada, Vijayanagaram.	Member	ABSENT
9	Mr. E. Prakash	Senior Consultant, Delloite, Bangalore.	Member	
10	Mr. V. Indrasena	Senior Associate, CTS, Mepez, Tambaram, Chennai.	Member	ABSENT

**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR**  
**(AUTONOMOUS)**

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**4<sup>th</sup> BOS Meeting of Master of Computer Applications (MCA)**

Date: 28-08-2020

The 4<sup>th</sup> meeting of Combined and Individual Board of Studies has been conducted in online mode due to the pandemic situation faced worldwide. The online meeting conducted by Department of Master of Computer Applications, Siddharth Institute of Engineering & Technology, Puttur, Chittoor District, Andhra Pradesh, which was held on 28<sup>th</sup> August 2020 (Friday) at 10:00 A.M. in the Zoom Meeting Applications.

As per the UGC (University Grant Commission) guidelines, the Choice Based Credit System (CBCS) and electives have been implemented in the curriculum.

Dr. A. Swarupa Rani, Chairman BOS chaired the meeting and welcomed all the members to the Fourth BOS meeting and discussed about the following agenda.

**Agenda:**

1. Approval of course structure for 2 years w.e.f. A.Y.2020-21.
2. Approval of syllabus for I & II years w.e.f. A.Y.2020-21.
3. Approval of syllabus for the subjects offered to other Departments w.e.f. 2020-21.
4. Approval of Panel of Question Paper setters.
5. Approval of Panel of Examiners.
6. Any other item

After a brief introduction the agenda items listed above were taken up for discussion and the following resolutions were passed.

**Minutes:**

**Agenda: 1**

Approval of course structure for 2 years w.e.f. A.Y.2020 - 21

**Resolution: 1**

After detailed discussion the BOS resolved to approve the course structure for 2 years of MCA (given in **Annexure –I**) applicable from the A.Y.2020 - 21.

**Agenda: 2**

Approval of syllabus for 2 years in MCA w.e.f. A.Y.2020 - 21

**Resolution: 2**

After the thorough discussion syllabus was framed to make the students acquire the required technical knowledge and skills. The BOS resolved to approve the syllabi framed for the I & II year MCA (given in **Annexure-II**).

**A. Course & Syllabus Comparison**

With reference to the R19 regulations, the new regulation (R20) syllabus for 1<sup>st</sup> and 2<sup>nd</sup> year has the following modifications, which are given in the below table.

S.No	R19 Regulation	R20 Regulation	Percentage of course content changed
1	Discrete Mathematics	Discrete Mathematics	0
2	Computer Organization	Computer Organization	0
3	Data Structures	Data Structures	0
4	Operating System	Operating System	0
5	Object Oriented Programming through C++	Object Oriented Programming through C++	0
6	Programming in C++ Lab	Object Oriented Programming through C++ Lab	0
7	P. C. Software Lab	P.C. Software Lab	0

S.No	R19 Regulation	R20 Regulation	Percentage of course content changed
8	Computer Networks	Computer Networks	0
9	JAVA Programming	JAVA Programming	0
10	Computer Graphics	Computer Graphics	0
11	Database Management System	Database Management System	0
12	Software Engineering	Software Engineering	0
13	JAVA Programming Lab	JAVA Programming Lab	0
14	Database Management System Lab	Database Management System Lab	0
15	Web Technologies	Web Technologies	0
16	Mobile Application Development	Mobile Application Development	0
17	Data Warehousing and Data Mining	Data Warehousing and Data Mining	0
18	Software Testing	Software Testing	0
19	Artificial Intelligence	Artificial Intelligence	0
20	Distributed Systems	Distributed Systems	0
21	Linux Programming	Linux Programming	0
22	Network Security	Network Security	0
23	Human Computer Interaction	Human Computer Interaction	0
24	Advanced Programming (Python & R-Languages)	Advanced Programming (Python & R-Languages)	0
25	Internet of Things	Internet of Things	0
26	E-Commerce	E-Commerce	0
27	Web Technologies Lab	Web Technologies Lab	0
28	Mobile Application Development Lab	Mobile Application Development Lab	0
29	Data Warehousing and Data Mining Lab	Data Warehousing and Data Mining Lab	0

S.No	R19 Regulation	R20 Regulation	Percentage of course content changed
30	Cloud Computing	Cloud Computing	0
31	Cyber Security	Cyber Security	0
32	Machine Learning	Machine Learning	0
33	Software Project Management	Software Project Management	0
34	.Net Technologies	.Net Technologies	0
35	Bio-informatics	Bio-informatics	0
36	Neural Networks & Fuzzy logic	Neural Networks & Fuzzy logic	0
37	Image Processing	Image Processing	0
38	Design Patterns	Design Patterns	0
39	Big Data Analytics	Big Data Analytics	0
40	Enterprise Resource Planning	Enterprise Resource Planning	0
41		Data Structures using C Lab	100
42		Computer Graphics Lab	100
43		Block Chain Technology	100

#### Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
MCA	43	6.97

#### B. Course Relevance

The courses that comes under the category of Employability, Skill or Entrepreneurship development are shown in the table below.

S. No.	Course Title	Course Code	Relevance
1	Discrete Mathematics	20HS0836	Skill Development
2	Computer Organization	20MC9101	Employability
3	Data Structures	20MC9102	Employability

4	Operating System	20MC9103	Employability
5	Object Oriented Programming through C++	20MC9104	Employability
6	Data Structures using C Lab	20MC9105	Employability
7	Object Oriented Programming through C++ Lab	20MC9106	Employability
8	P.C. Software Lab	20MC9107	Employability
9	Computer Networks	20MC9108	Employability
10	JAVA Programming	20MC9109	Employability
11	Computer Graphics	20MC9110	Employability
12	Database Management System	20MC9111	Employability
13	Software Engineering	20MC9112	Employability
14	JAVA Programming Lab	20MC9113	Employability
15	Computer Graphics Lab	20MC9114	Employability
16	Database Management System Lab	20MC9115	Employability
17	Professional Communication Skills Lab(Audit Course)	20HS0863	Skill Development
18	Web Technologies	20MC9116	Employability
19	Mobile Application Development	20MC9117	Employability
20	Data Warehousing and Data Mining	20MC9118	Employability
21	Software Testing	20MC9119	Employability
22	Artificial Intelligence	20MC9120	Employability
23	Distributed Systems	20MC9121	Employability
24	Linux Programming	20MC9122	Employability
25	Network Security	20MC9123	Employability
26	Human Computer Interaction	20MC9124	Employability
27	Advanced Programming(Python & R-Languages)	20MC9125	Employability
28	Internet of Things	20MC9126	Employability
29	E-Commerce	20MC9127	Employability
30	Block Chain Technology	20MC9128	Employability

31	Web Technologies Lab	20MC9129	Skill Development
32	Mobile Application Development Lab	20MC9130	Skill Development
33	Data Warehousing and Data Mining Lab	20MC9131	Skill Development
34	Aptitude Practices	20HS0842	Skill Development
35	Cloud Computing	20MC9132	Employability
36	Cyber Security	20MC9133	Employability
37	Machine Learning	20MC9134	Employability
38	Software Project Management	20MC9135	Employability
39	.Net Technologies	20MC9136	Employability
40	Bio-informatics	20MC9137	Employability
41	Neural Networks & Fuzzy logic	20MC9138	Employability
42	Image Processing	20MC9139	Employability
43	Design Patterns	20MC9140	Employability
44	Big Data Analytics	20MC9141	Employability
45	Enterprise Resource Planning	20MC9142	Employability
46	Seminar	20MC9143	Skill Development
47	Dissertation	20MC9144	Skill Development

Modifications described above are carried out to the curriculum after discussions in the BoS by considering the feedback/suggestions from the stakeholders viz. students, alumni, faculty and employers.

**Agenda: 3**

Approval of syllabus for the subjects offered to other Departments w.e.f. A.Y. 2020 - 21

**Resolution: 3**

After the thorough discussion syllabus was framed for the following subjects offered to the other departments (given in **Annexure-III**).

- a. Fundamentals of Computer & Information System Lab – I MBA – I SEM (MBA)



**Agenda: 4**

Approval of Panel of Question Paper setters

**Resolution: 4**

Approved the panel of Question Paper setting (given in **Annexure –IV**) to be submitted to the college academic council for approval.

**Agenda: 5**

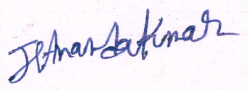
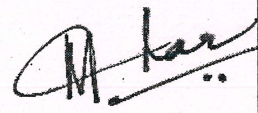
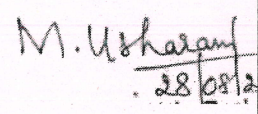
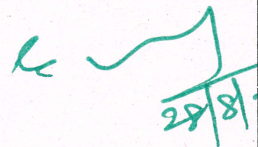
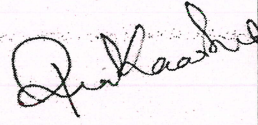
Approval of Panel of Examiners

**Resolution: 5**

Approved the panel of Examiners prepared for valuation (given in **Annexure –V**) to be submitted to the college academic council for approval.

The above items were discussed, debated and the necessary approval was accorded by the BOS. The meeting was concluded with vote of Thanks proposed by the Chairman-BOS.

**Members Present**

S. No.	Name of the Member	Designation / Organization	Role of the BOS	Signature
1	Dr. A. Swarupa Rani	Professor & HOD – SIETK	Chairman	
2	Mr. P. Karthikeyan	Associate Professor – SIETK	Member	
3	Mr. P. Balaji	Associate Professor – SIETK	Member	
4	Mr. J. S. Ananda Kumar	Assistant Professor – SIETK	Member	
5	Ms. P. Sukanya	Assistant Professor – SIETK	Member	
6	Dr. R. Rajeswara Rao	Professor, Dept. of CSE, JNTU Kakinada, Vijayanagaram.	Member	
7	Dr. M. Usha Rani	Professor, Dept. of CSE, SPMVV, Tirupati	Member	 28/08/20
8	Dr. Ch. D.V. Subba Rao	Professor, Dept. of CSE, S. V. University college of Engineering, Tirupati.	Member	 28/8/2020
9	Mr. E. Prakash	Senior Consultant, Delloite, Bangalore.	Member	
10	Mr. V. Indrasena	Senior Associate, CTS, Mepez, Tambaram, Chennai.	Member	 28/08/20