ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES: TIRUPATI (AUTONOMOUS)

FIRST: Minutes of the meeting of BOS

DATE: 10-08-2019

AGENDA OF THE MEETING

- Welcoming the distinguished members of the Board of Studies for the BOS meeting by the Chairman, BOS – EEE.
- Review / Suggestions of the academic regulations for the B. Tech Programme.
- Review / Suggestions of the course structure of B.Tech Programme.
- Review / Suggestions of the academic regulations for the M. Tech-PS Programme.
- Review / Suggestions of the course structure of M.Tech-PS Programme.
- Review / Approval of the detailed B.Tech Syllabi for two years.
- Review / Approval of the detailed M.Tech-PS Syllabi for two years.
- Any other suggestions / advice to the department.
- Vote of thanks.

Members of BOS-EEE

S.No.	Name of the Person	Designation	Position
01	Dr. C. Sasikala	Professor & HOD	Chairman
02	Dr. R. Murugesan	Associate Professor	Member
03	Mr. K. Balaji Nanda Kumar Reddy	Assistant Professor	Member
04	Mr. S. Nyamathulla	Assistant Professor	Member
05	Mr.C. Rajesh	sh Assistant Professor	
06	Dr.V.C.Veera Reddy	Professor, SPMVV Tirupati.	University nominated Academic Expert
07	Dr.M.Suryakalavathi	Professor & HOD JNTUCEH, Hyderabad	University nominated Subject Expert
08	Dr.G.V. Marutheswar Rao	Professor, SVUCE, SV University, Tirupati	University nominated Subject Expert
09	Mr.G.Krishnamurthy Naidu Sr. General Manager-QA Amararaja Batteeries Ltd, Tirupati.		Industry Representative
10	Mr.P.Parthasaradhi	Scientific Officer Department of Atomic Energy, Manuguru.	P.G Alumni

Members not attended:

MINUTES OF BOARD OF STUDIES MEETING

The meeting was conducted in the Board room AITS on 10th August 2019 at 11.30 A.M. The Principal and the Chairman, BOS-EEE, extended a warm welcome to Dr.V.C.Veera Reddy, Professor, SPMVVTirupati, Dr.M.Suryakalavathi, Professor & HOD ,JNTUCEH, Hyderabad, Dr.G.V. Marutheswar Rao, Professor, SVUCE, SV University, Tirupati, Mr.G.Krishnamurthy Naidu, Sr. General Manager-QA Amararaja Batteeries Ltd, Tirupati, Mr. P. Parthasaradhi, Scientific Officer Department of Atomic Energy, Manuguru. and members of BOS.

- Chairman, BOS- EEE, Dr. C.Sasikala, briefed the committee about the agenda of the meeting.
- The BOS officially approved the UG (B.Tech) academic regulations and course structures of AK19, related to the following subjects for the academic year 2019-20.
- The BOS officially approved the PG (M.Tech-PS) academic regulations and course structures of AK19, related to the following subjects for the academic year 2019-20.
- The committee suggested that the students should be acquainted with MOOCs/ SWAYAM to enhance the learning abilities.
- The Panel proposed that the students should use AICTE, JNTUA referred books for references.

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI

(Autonomous)

Course structure for Four Year Regular B.Tech. Degree Program (Effective for the batches admitted from 2019-20)

ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)

INDUCTION PROGRAM (3 weeks duration)

- · Physical activity
- · Creative Arts
- Universal Human Values
- Literary
- Proficiency Modules
- . Lectures by Eminent People
- · Visits to local Areas
- · Familiarization to Dept./Branch & Innovations

IB. Tech - I Semester

S.No	Category	Course Code	Course Title	Hours per week			Credits	Scheme of Examination (Max. Marks)		
				L	T	P	0	CIE	SEE	Total
			THEORY							
1	BS	19ABS9901	Algebra and Calculus	3	1	0	4	30	70	100
2	BS	19ABS9902	Applied Physics	3	0	0	3	30	70	100
3	ES	19AES0501	Problem Solving and Programming	3	1	0	4	30	70	100
4	HS	-19AHS9901	Communicative English I	2	0	0	2	30	70	100
			PRACTICAL							
5	LC	19ALC0201	Electrical and Electronics Engineering Workshop	0	0	2	1	30	70	100
6	BS	19ABS9907	Applied Physics Lab	0	0	3	1.5	30	70	100
7	ES	19AES0503	Problem Solving and Programming Lab	0	0	4	2	30	70	100
8	HS	19AHS9902	Communicative English I Lab	0	0	2	1	30	70	100
				T	OT.	AL	18.5	240	560	800

Dept. of Electrical & Electronics Engage Annamacharya Institute of Technology & Joient TIRUPATI - 517 507

S.NO ROLE IN BOS NAME SIGNATURE 1 Chairman Dr. C. Sasikala 2 Dr. R. Muragesan 3 Dr. K. Balaji Nanda Kumar Reddy Senior faculty members 4 Shaik Nyamathulla 5 C. Rajesh 6 Dr.M.Suryakalavathi External subject experts 7 Connectation senote Location Dr.G.V.Marutheswar Rao Connected from semetalocation 8 External academic expert Dr. V. C. Veera Reddy 9 Representative (Industry) Mr. G. Krishnamurthy Naidu 10 PG Alumnus Mr. P. Parthasaradhi

IB. Tech - II Semester

S.No	Category	Course Code	Course Title		Hours per week		per		per		Credits	Ex	cheme amina ax. Ma	tion
				L	T	P	0	CIE	SEE	Total				
			THEORY											
1	ES	19AES0101	Basics of Civil and Mechanical Engineering	3	0	0	3	30	70	100				
2	BS	19ABS9906	Differential Equations and Vector Calculus	3	1	0	4	30	70	100				
3	BS	19ABS9904	Chemistry	3	0	0	3	30	70	100				
4	ES	19AES0502	Data Structures	3	0	0	3	30	70	100				
			PRACTICAL											
5	LC	19ALC0301	Engineering Workshop	0	0	2	1	30	70	100				
6	ES	19AES0301	Engineering Graphics Lab	1	0	4	3	30	70	100				
7	ES	19AES0102	Basics of Civil and Mechanical Engineering Lab	0	0	3	1.5	30	70	100				
8	BS	19ABS9909	Chemistry Lab	0	0	3	1.5	30	70	100				
9	ES	19AES0504	Data Structures Lab	0	0	3	1.5	30	70	100				
				Т	OT.	AL	21.5	270	630	900				

S.NO	ROLE IN BOS	NAME	SIGNATURE
1	Chairman	Dr. C. Sasikala	-3 C: J 1
2		Dr. R. Muragesan	
3	Conjor foculty	Dr. K. Balaji Nanda Kumar Reddy	for second
4	Senior faculty members	Shaik Nyamathulla	40
5		C. Rajesh	C. Reput
6	External cubicat	Dr.M.Suryakalavathi	ABSENT
7	External subject experts	Dr.G.V.Marutheswar Rao	Connected from surrote location
8	External academic expert	Dr. V. C. Veera Reddy	Cornected from lengt location
9	Representative (Industry)	Mr. G. Krishnamurthy Naidu	Connected from sende location
10	PG Alumnus	Mr. P. Parthasaradhi	Conjugled from summels

II B. Tech - I Semester

S.No	Category	Course Code	Course Title	Hours per week			Credits	Scheme of Examination (Max. Marks)		
				L	T	P		/CIE	SEE	Total
1	BS	19ABS9912	Transform Techniques and Complex Variables	3	0	0	3	30	70	100
2	HS	19AHS9903	Communicative English II	2	0	0	2	30	70	100
3	ES	19AES0505	Internet of Things (IoT)	2	0	0	2	30	70	100
4	PC	19APC0201	Electrical Circuit Analysis	3	0	0	3	30	70	100
5	PC	19APC0401	Electronic Devices and Circuits	3	0	0	3	30	70	100
6	PC	19APC0202	Engineering Electromagnetics	3	1	0	4	30	70	100
7	MC	19AMC9903	Environmental Studies	2	0	0	0	30		30
			PRACTICAL							
8	HS	19AHS9904	Communicative English II Lab	0	0	2	1	30	70	100
9	ES	19AES0506	Internet of Things (IoT) Lab	0	0	2	1	30	70	100
10	PC	19APC0203	Electrical Circuit Analysis Lab	0	0	3	1.5	30	70	100
11	PC	19APC0404	Electronic Devices and Circuits Lab	0	0	2	1	30	70	100
				T	TC	\L	21.5	330	700	1030

S.NO	ROLE IN BOS	NAME	SIGNATURE
1	Chairman	Dr. C. Sasikala	C Salit A
2		Dr. R. Muragesan	
3	Canion fooults, manh and	Dr. K. Balaji Nanda Kumar Reddy	Acoused .
4	Senior faculty members	Shaik Nyamathulla	
5		C. Rajesh	C. Repul
6	F 1 1:	Dr.M.Suryakalavathi	ABSENT
7	External subject experts	Dr.G.V.Marutheswar Rao	Connected from exmite locat
8	External academic expert	Dr. V. C. Veera Reddy	Connected from senote Locati
9	Representative (Industry)	Mr. G. Krishnamurthy Naidu	Connected from senote Locati
10	PG Alumnus	Mr. P. Parthasaradhi	Connected from gumes Loss

II B. Tech - II Semester

S.No	.No Category	Course Code	Course Title	Hours per week			Credits	Scheme of Examination (Max. Marks)		
				L	T	P	0	CIE	SEE	Total
1	BS	19ABS9916	Numerical Methods and Probability	3	1	0	4	30	70	100
2	ES	19AES0509	Basics of Python Programming	2	0	0	2	30	70	100
3	ES	19AES0302	Design Thinking and Product Innovation	2	0	0	2	30	70	100
4	PC	19APC0204	Electrical Machines - I	3	1	0	4	30	70	100
5	PC	19APC0406	Analog Electronic Circuits	2	0	0	2	30	70	100
6	PC	19APC0408	Digital Electronic Circuits	2	0	0	2	30	70	100
7	MC	19AMC9901	Biology for Engineers	2	0	0	0	30		30
			PRACTICAL							
8	PR	19APR0201	Socially Relevant Projects (15 hrs / semester)	0	0	0	0.5	50		50
9	PC	19APC0205	Electrical Machines - I Lab	0	0	3	1.5	30	70	100
10	ES	19AES0510	Basics of Python Programming Lab	0	0	2	1	30	70	100
11	ES	19AES0303	Design Thinking and Product Innovation Lab	0	0	2	1	30	70	100
12	PC	19APC0409	Analog and Digital Electronic Circuits Lab	0	0	3	1.5	30	70	100
				T	OT	AL	21.5	380	700	1080

S.NO	ROLE IN BOS	NAME	SIGNATURE
1	Chairman	Dr. C. Sasikala	C. Conik of
2		Dr. R. Muragesan	
3	S S It	Dr. K. Balaji Nanda Kumar Reddy	Joseph Joseph
4	Senior faculty members	Shaik Nyamathulla	
5		C. Rajesh	C. Refer
6		Dr.M.Suryakalavathi	ABSENT
7	External subject experts	Dr.G.V.Marutheswar Rao	
8	External academic expert	Dr. V. C. Veera Reddy	Connected from sumi
9	Representative (Industry)	Mr. G. Krishnamurthy Naidu	Connected from sense Connected from sense Connected from sense
10	PG Alumnus	Mr. P. Parthasaradhi	Connected from some

III B. Tech - I Semester

S.No	Category	Course Code	Course Title		Hours per week		Credits	E	scheme camina Iax. Ma	tion	
				L	T	P		CIE	SEE	Total	
1	PC	19APC0206	Power Systems - I	3	0	0	3	30	70	100	
2	PC	19APC0207	Electrical Machines - II	3	0	0	3	30	70	100	
3	PC	19APC0208	Control Systems	3	0	0	3	30	70	100	
4	PC	19APC0209	Power Electronics	3	0	0	3	30	70	100	
		19APC0404	Signals and Systems								
5	PE	19APC0425	Analog and Digital IC Applications	3	0	0	3	30	70	100	
		19APC0426	Linear System Analysis								
		19A0EMB01	Managerial Economics and Financial Analysis								
6	OE	19APC0510	Computer Networks	3	0	0	3	30	70	100	
		19APC0412	Analog and Digital Communications								
7	MC	19AMC9902	Constitution of India	2	0	0	0	30		30	
			PRACTICAL							200	
8	PC	19APC0210	Electrical Machines - II Lab	0	0	2	1	30	70	100	
9	PC	19APC0211	Control Systems Lab	0	0	2	1	30	70	100	
10	PC	19APC0212	Power Electronics Lab	0	0	2	1	30	70	100	
11	PR	19APR0202	Socially Relevant Projects (15 Hrs /Sem)	0	0	0	0.5	50		50	
				T	OTA	AL	21.5	350	630	980	

S.NO	ROLE IN BOS	NAME	SIGNATURE
1	Chairman	Dr. C. Sasikala	1 2 2 . 4
2		Dr. R. Muragesan	
3	Conion Consists and and	Dr. K. Balaji Nanda Kumar Reddy	free court
4	Senior faculty members	Shaik Nyamathulla	
5		C. Rajesh	C. le ser
6	F-41-1:	Dr.M.Suryakalavathi	ABSENT
7	External subject experts	Dr.G.V.Marutheswar Rao	
8	External academic expert	Dr. V. C. Veera Reddy	Connected from sunde la com
9	Representative (Industry)	Mr. G. Krishnamurthy Naidu	Connected from sunde lo cation Connected from sunde lo cation Connected from sunde lo cation
10	PG Alumnus	Mr. P. Parthasaradhi	Connected from From Leave

III B. Tech - II Semester

S.No	Category	Course Code	Course Title		urs weel	_	Credits	Scheme Examinat (Max. Mat		tion
				L	T	P	0	CIE	SEE	Total
1	PC	19APC0213	Power Systems - II	3	0	0	3	30	70	100
2	PC	19APC0417	Microprocessors & Microcontrollers	3	0	0	3	30	70	100
3	PC	19APC0214	Electrical Measurements and Instrumentation	3	0	0	3	30	70	100
4	PC	19APC0215	Power System Analysis	3	0	0	3	30	70	100
		19A0E0201	Neural Networks & Fuzzy Logic							
5	OE	19A0E9906	Mathematical Modeling	3	0	0	3	30	70	100
		19A0E0511	Business Data Analytics							
		19AHE9902	Principles of Effective Public Speaking	3						
6	HE	19AHE9907	Optics		0	0	3	30	70	100
		19AHE9909	Quantum Mechanics							
_ 7	MC	19AMC9904	Professional Ethics and Human values	2	0	0	0	30		30
(PRACTICAL							
8	PC	19APC0216	Power Systems-II Lab	0	0	2	1	30	70	100
9	PC	19APC0420	Microprocessors & Microcontrollers Lab	0	0	2	1	30	70	100
10	PC	19APC0217	Electrical Measurements Lab	0	0	2	1	30	70	100
11	PR	19APR0203	Socially Relevant Projects (15 hrs / semester)	0	0	0	0.5	50		50
12	PR	19APR0204	Industrial Training/ Internship/ Research Projects in National Laboratories/Academic Institutions *	0	0	0	0			
				Т	OT.	AL	21.5	350	630	980

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S.NO	ROLE IN BOS	NAME	SIGNATURE
1	Chairman	Dr. C. Sasikala	E. S. ik . (
2		Dr. R. Muragesan	
3	Conjon fooults, manch and	Dr. K. Balaji Nanda Kumar Reddy	hopeany
4	Senior faculty members	Shaik Nyamathulla	7
5		C. Rajesh	Cheput
6	F-41-1'	Dr.M.Suryakalavathi	ABSENT
7	External subject experts	Dr.G.V.Marutheswar Rao	Connected from rumote Location
8	External academic expert	Dr. V. C. Veera Reddy	Connected from semote Location
9	Representative (Industry)	Mr. G. Krishnamurthy Naidu	Connected from semate location
10	PG Alumnus	Mr. P. Parthasaradhi	Connected from sumate Lighton

IV B. Tech - I Semester

S.No	Category	Course Code	Course Title		Hou er w		Credits	Scheme of Examination (Max. Marks)			
				L	T	P		CIE	SEE	Total	
1	PC	19APC0218	Switch Gear and Protection	3	0	0	3	30	70	100	
2	PC	19APC0219	High Voltage Engineering	2	0	0	2	30	70	100	
		19APE0411	Embedded Systems								
3	OE	19APC0512	Data Base Management Systems	3	0	0	3	30	70	100	
		19APC0101	Strength of Materials-1								
		19APE0201	Electrical Distribution Systems								
4	PE	19APE0202	Power Semi-conductor Drives	3	0	0	3	30	70	100	
		19APE0203	Advanced Control Systems								
_	200	19APE0204	Power System Operation and Control								
5	PE	19APE0205	Flexible AC Transmission Systems	3 0	0	3	30	70	100		
		19APC0418	Digital Signal Processing								
		19AHE9901	Technical Writing								
6	HE	19AHE9903	Professional Communication	3	0	0	3	30	70	100	
		19AHE9904	Polymer Chemistry								
			PRACTICAL				0				
7	PR	19APR0205	Project I	0	0	0	(2)	60		60	
8	PR	19APR0206	Socially Relevant Projects (15 hrs / semester)	0	0	0	0.5	50		50	
9	PR	19APR0207	Industrial Training/Internship/Research Projects in National Laboratories/Academic Institutions	0	0	0	1.5	50		50	
				-	TOT	AL	21	340	420	760	

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S.NO	ROLE IN BOS	NAME	SIGNATURE
1	Chairman	Dr. C. Sasikala	$=$ $($ \times $)$
2		Dr. R. Muragesan	
3	Conion forciles	Dr. K. Balaji Nanda Kumar Reddy	Jegoccoop
4	Senior faculty members	Shaik Nyamathulla	
5		C. Rajesh	C. Le pur
6	F	Dr.M.Suryakalavathi	ARSENT
7	External subject experts	Dr.G.V.Marutheswar Rao	Connected from semote location
8	External academic expert	Dr. V. C. Veera Reddy	Connected from servote Location
9	Representative (Industry)	Mr. G. Krishnamurthy Naidu	Connected from somote location
10	PG Alumnus	Mr. P. Parthasaradhi	Connected from sente location

IV B. Tech - II Semester

S.No	Category	Course Code	Course Title		Hours per week			Scheme of Examination (Max. Marks)		
		Code		L	T	P	Credits	CIE	SEE	Total
		19A0E9903	Environmental Waste Management							
1	OE	19APE0405	VLSI Design	3	0	0	3	30	70	100
		19A0E0301	Management Sciences							
		19APE0206	Smart Grids							
2	PE	19APE0207	Power Quality	3 0 0 3	3	30	70	100		
2	FE	19APE0208	Power System Dynamics and Control	3	U	0 3	3	30	70	100
			PRACTICAL							
3	PR	19APR0208	Technical Paper Presentation/Seminar	0	0	0	0	0	50	50
4	PR	19APR0209	Project II	3	0	0	7-1	60	140	200
				7	TOT	AL	13	120	330	450

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S.NO	ROLE IN BOS	NAME	SIGNATURE
1	Chairman	Dr. C. Sasikala	C 5 2 1
2		Dr. R. Muragesan	
3	South Control	Dr. K. Balaji Nanda Kumar Reddy	hosper .
4	Senior faculty members	Shaik Nyamathulla	
5		C. Rajesh	C. Rejol
6	E	Dr.M.Suryakalavathi	ABSENT
7	External subject experts	Dr.G.V.Marutheswar Rao	Connected from semate Location connected from semate Location
8	External academic expert	Dr. V. C. Veera Reddy	Connected from senate Location
9	Representative (Industry)	Mr. G. Krishnamurthy Naidu	connected from surrote Location
10	PG Alumnus	Mr. P. Parthasaradhi	Connected from servete le cation

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI

(AUTONOMOUS)

(Effective for the batches admitted in 2019-20) ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)

10-08-2019

INDUCTION PROGRAM (3 weeks duration)

- · Physical activity
- · Creative Arts
- Universal Human Values
- Literary
- · Proficiency Modules
- . Lectures by Eminent People
- · Visits to local Areas
- Familiarization to Dept./Branch & Innovations

IB. Tech - I Semester

S.No	Category	gory Course Code Course Title		Hours per week			Credits	Scheme of Examination (Max. Marks		
				L	T	P	J	CIE	SEE	Tota
			THEORY							
.1	BS	19ABS9901	Algebra and Calculus	3	1	0	4	30	70	100
2	BS	19ABS9902	Applied Physics	3	0	0	3	30	70	100
3	ES	19AES0501	Problem Solving and Programming	3	1	0	4	30	70	100
4	HS	19AHS9901	Communicative English I	2	0	0	2	30	70	100
		L	PRACTICAL							
5	LC	19ALC0201	Electrical and Electronics Engineering Workshop	0	0	2	1	30	70	100
6	BS	19ABS9907	Applied Physics Lab	0	0	3	1.5	30	70	100
7	ES	19AES0503	Problem Solving and Programming Lab	0	0	ð	2.0	N30	70	100
8	HS	19AHS9902	Communicative English I Lab	0	0	2	1	30	70	100
		ļ 4		T	OT.	AL	18.5	240	560	800

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Dept. of Electrical & Electronics Engage

Annamacharya Institute of Technology & 5 TIRUPATI - 517 507

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2) Regurd 3 Housey 4) AS

IB. Tech - II Semester

S.No	Category	Course Code	rse Code Course Title		lour r we	-	Credits	Scheme of Examination (Max. Marks)			
				L	T	P		CIE	SEE	Total	
			THEORY								
1	ES	19AES0101	Basics of Civil and Mechanical Engineering	3	0	0	3	30	70	100	
2	BS	19ABS9906	Differential Equations and Vector Calculus	3	1	0	4	30	70	100	
3	BS	19ABS9904	Chemistry	3	0	0	3	30	70	100	
4	ES	19AES0502	Data Structures	3	0	0	3	30	70	100	
			PRACTICAL								
5	LC	19ALC0301	Engineering Workshop	0	0	2	1	30	70	100	
6	ES	19AES0301	Engineering Graphics Lab	1	0	4	3	30	70	100	
7	ES	19AES0102	Basics of Civil and Mechanical Engineering Lab	0	0	3	1.5	30	70	100	
8	BS	19ABS9909	Chemistry Lab	0	0	3	1.5	30	70	100	
9	ES	19AES0504	Data Structures Lab	0	0	3	1.5	30	70	100	
	<u> </u>			T	OT.	AL	21.5	270	630	900	

3) 1000 4) AS 5) (. No

II B. Tech - I Semester

S.No	Category	Course Code	Course Code Course Title	Hours per week			Credits	Scheme of Examination (Max. Marks)			
				L	T	P		CIE	SEE	Total	
1	BS	19ABS9912	Transform Techniques and Complex Variables	3	0	0	3	30	70	100	
2	BS	19ABS9918	Life Sciences for Engineers	2	0	0	2	30	70	100	
3	ES	19AES0505	Internet of Things (IoT)	2	0	0	2	30	70	100	
4	PC	19APC0201	Electrical Circuit Analysis	3	0	0	3	30	70	100	
5	PC	19APC0401	Electronic Devices and Circuits	3	0	0	3	30	70	100	
6	PC	19APC0202	Engineering Electromagnetics	3	1	0	4	30	70	100	
7	МС	19AMC9901	Essence Of Indian Traditional Knowledge	3	0	0	0	30		30	
		L	PRACTICAL							1	
8	BS	19ABS9919	Life Sciences for Engineers Lab	0	0	2	1	30	70	100	
9	ES	19AES0506	Internet of Things (IoT) Lab	0	0	2	1	30	70	100	
10	PC	19APC0203	Electrical Circuit Analysis Lab	0	0	3	1.5	30	70	100	
11	PC	19APC0404	Electronic Devices and Circuits Lab	0	0	2	1	30	70	100	
				T	OT	AL	21.5	330	700	1030	

II B. Tech - II Semester

S.No	S.No Category	Course Code	Course Title		Ioui r we	20000	Credits	Ez	Scheme kamina Iax. Ma	tion
				L	T	P		CIE	SEE	Total
1	BS	19ABS9916	Numerical Methods and Probability	3	1	0	4	30	70	100
2	HS	19AHS9903	Communicative English II	2	0	0	2	30	70	100
3	ES	19AES0302	Design Thinking and Product Innovation	2	0	0	2	30	70	100
4	PC	19APC0204	Electrical Machines - I	3	1	0	4	30	70	100
5	PC	19APC0406	Analog Electronic Circuits	2	0	0	2	30	70	100
6	PC	19APC0408	Digital Electronic Circuits	2	0	0	2	30	70	100
/ 7	MC	19AMC9903	Environmental Studies	3	0	0	0	30		30
			PRACTICAL							l
8	PR	19APR0201	Socially Relevant Projects (15 hrs / semester)	0	0	0	0.5	50		50
9	PC	19APC0205	Electrical Machines - I Lab	0	0	3	1.5	30	70	100
10	HS	19AHS9904	Communicative English II Lab	0	0	2	1	30	70	100
11	ES	19AES0303	Design Thinking and Product Innovation Lab	0	0	2	1	30	70	100
12	. PC	19APC0409	Analog and Digital Electronic Circuits Lab	0	0	3	1.5	30	70	100
				T	OT	AL	21.5	380	700	1080

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III B. Tech - I Semester

S.No	Category	Course Code	Course Title	1 -	loui r we		Credits	E	Scheme kamina Iax. Ma	tion
				L	T	P		CIE	SEE	Total
1	PC	19APC0206	Power Systems - I	3	0	0	3	30	70	100
2	PC	19APC0207	Electrical Machines - II	3	0	0	3	30	70	100
3	PC	19APC0208	Control Systems	3	0	0	3	30	70	100
4	PC	19APC0209	Power Electronics	3	0	0	3	30	70	100
,		19APC0404	Signals and Systems							
5	PE	19APC0425	Analog and Digital IC Applications	3	0	0	3	30	70	100
		19APC0426	Linear System Analysis							
		19A0EMB01	Managerial Economics and Financial Analysis							
6	OE	19APC0510	Computer Networks	3	0	0	3	30	70	100
		19APC0412	Analog and Digital Communications							
7	MC /	19AMC9902	Constitution of India	3	0	0	0	30		30
			PRACTICAL	1						
8	PC	19APC0210	Electrical Machines - II Lab	0	0	2	1	30	70	100
9	PC	19APC0211	Control Systems Lab	0	0	2	1	30	70	100
10	PC	19APC0212	Power Electronics Lab	0	0	2	1	30	70	100
11	PR	19APR0202	Socially Relevant Projects (15 Hrs /Sem)	0	0	0	0.5	50		50
				T	OTA	AL	21.5	350	630	980

III B. Tech - II Semester

S.No	Category	Course Code	Course Title	200	loui r we		Credits	Scheme Examina (Max. Ma		tion
	and the same			L	T	P		CIE	SEE	Total
1	PC	19APC0213	Power Systems - II	3	0	0	3	30	70	100
2	PC	19APC0417	Microprocessors & Microcontrollers	3	0	0	3	30	70	100
3	PC	19APC0214	Electrical Measurements and Instrumentation	3	0	0	3	30	70	100
4	PC	19APC0215	Power System Analysis	3	0	0	3	30	70	100
		19A0E0201	Neural Networks & Fuzzy Logic				,			(
5	OE	19A0E9906	Mathematical Modeling	3	0	0	3	30	70	100
		19A0E0511	Business Data Analytics							
		19AHE9902	Principles of Effective Public Speaking							
6	HE	19AHE9907	Optics	3 0	0	0	3	30	70	100
		19AHE9909	Quantum Mechanics							
7	MC	19AMC9904	Professional Ethics and Human values	3	0	0	0	30		30
	-		PRACTICAL							1
8	PC	19APC0216	Power Systems-II Lab	0	0	2	1	30	70	10(
9	PC	19APC0420	Microprocessors & Microcontrollers Lab	0	0	2	1	30	70	100
10	PC	19APC0217	Electrical Measurements Lab	0	0	2	1	30	70	100
11	PR	19APR0203	Socially Relevant Projects (15 hrs / semester)	0	0	0	0.5	50		50
12	PR		Industrial Training/ Internship/ Research Projects in National Laboratories/Academic Institutions *	0	0	0	0			
	OASH		J	T	OT.	AL	21.5	350	630	980

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Anhamacharya Institute of Technology &
TIRUPATI - 517 507

IV B. Tech - I Semester

S.No	Category	Course Code	Course Title	1000	Hou er we	46000	Credits	Ex	Scheme camina [ax. Ma	tion				
				L	T	P	J	CIE	SEE	Total				
1	PC	19APC0218	Switch Gear and Protection	3	0	0	3	30	70	100				
2	PC	19APC0219	High Voltage Engineering	2	0	0	2	30	70	100				
		19APE0411	Embedded Systems											
3	OE	19APC0512	Data Base Management Systems	3	0	0	3	30	70	100				
		19APC0101	Strength of Materials-1					*						
		19APE0201	Electrical Distribution Systems											
4	PE	19APE0202	Power Semi-conductor Drives	3	0	0	3	30	70	100				
		19APE0203	Advanced Control Systems											
		19APE0204	Power System Operation and Control											
5	PE	19APE0205	Flexible AC Transmission Systems	3	0	0	0	0	0	0	3	30	70	100
		19APC0418	Digital Signal Processing											
		19AHE9901	Technical Writing											
6	HE	19AHE9903	Professional Communication	3	0	0	3	30	70	100				
		19AHE9904	Polymer Chemistry											
			PRACTICAL					_						
-8-	PR	-19APR0204	Socially Relevant Projects (15 hrs / semester)	0	0	0	0.5	50	_	50=				
9	PR	19APR0205	Industrial Training/Internship/Research Projects in National Laboratories/Academic Institutions	0	0	0	2	50	-	50				
10	PR	19APR0206	Project I	0	0	0	2	60		60				
			(60 mg	1,	TO	TAL	21.5		420	760				

Annamacharya Institute of Technology & St TIRUPATI - 517 507

IV B. Tech - II Semester

S.No	Category	Course Code	Course Title			rs eek	Credits	Scheme of Examination (Max. Marks)			
	nunty			L	T	P	J	CIE	SEE	Total	
		19A0E9903	Environmental Waste Management							100	
1	OE	19APE0405	VLSI Design	3	0	0	3	30	70	100	
		19A0E0301	Management Sciences	1							
		19APE0206	Smart Grids								
2	PE	19APE0207	Power Quality	3	0	0	3	30	70	100	
		19APE0208	Power System Dynamics and Control								
			PRACTICAL								
3	PR	19APR0207	Technical Paper Presentation/Seminar	0	0	0	0	0	50	50	
4	PR	19APR0208	Project II	3	0	0	7	60	140	200	
		1		7	TOT	AL	13	120	330	450	

1) col [DY.C. Salikala]

2) Acareau (K. Ralaj, "Nemdertimen Redy)

4) Ag. (S. Nyamathulla)

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ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI (AUTONOMOUS)

Minutes of Metting BOS(UG&PG) of Electrical & Electronics Engineering Through Online Platform, dated 10-07-2020 at 3.30PM

Item 1: The BOS Members of the Department of Electrical and Electronics Engineering.

Resolution: In Department of EEE, No changes in the BOS Members. The BOS Members list is showed below.

S.No	Name of the Person	Designation	Position
1	Dr. C. Sasikala	Professor & HOD	Chairman
2	Dr. R. Muragesan	Associate Professor	Member
3	Dr. K. Balaji Nanda Kumar Reddy	Assistant Professor	Member
4	Sheik Nyamathulla	Assistant Professor	Member
5	C. Rajesh	Assistant Professor	Member
6	Dr.M.Suryakalavathi	Professor of Electrical Engineering Department, JNTUCEH Kukatpally,HYD-85	University Nominated Subject Expert
7	Dr.G.V.Marutheswar Rao	Professor in EEE Dept., SVUCE,SV University, Tirupathi-517502,A.P.	University Nominated Subject Expert
8	Dr. V. C. Veera Reddy	Professor in EEE Dept., School of Engg&Technology, Sri Padmavathi Mahila ViswaVidyalayam, Tirupathi-517502	Academic Council Nominee
9	Mr. G. Krishnamurthy Naidu	Sr. General Manager-QA, Amararaja Batteries Ltd, Karakambadi, Tirupathi	Industry Representative
10	Mr. P. Parthasaradhi	Scientific officer/c, Department of Atomic Energy, Heavy Water Plant, Manuguru.	P.G.Alumni

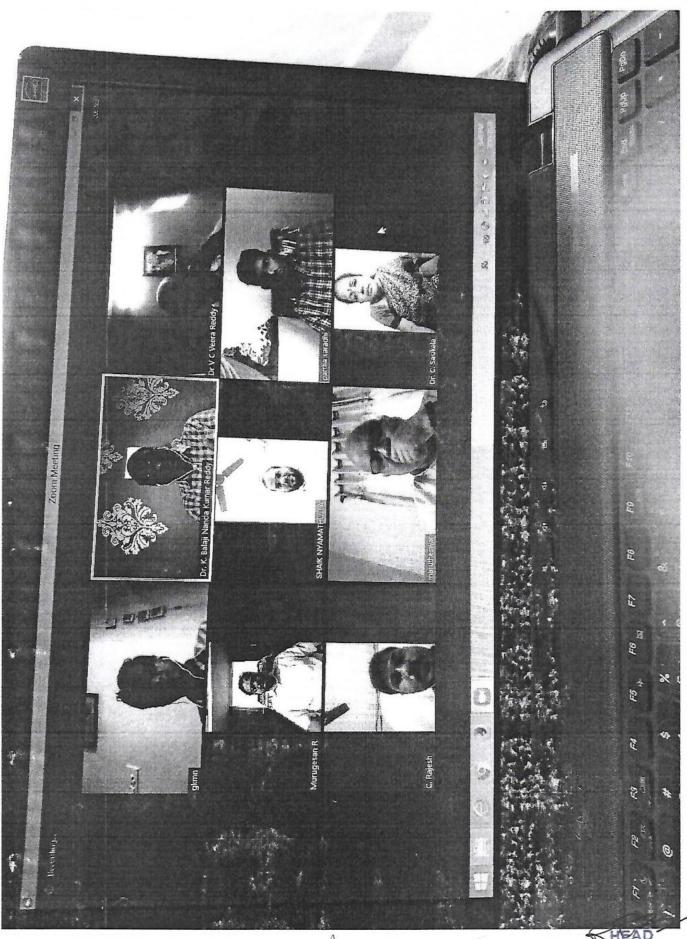
Item 2: Modifications and Approval of Course Structure for B. Tech (EEE)

<u>Resolution</u>: Based on first year course structure followed in 2019-20, certain modifications in Second Year(I-Sem & II-Sem) of course structure of B.Tech are discussed and are approved and assumed tentative structures for rest of 3rd and 4th Year of B.Tech

Item 3: To Approve the syllabus for II Year courses of B.Tech (EEE) for 2020-21

Syllabus for the EEE Courses are already approved in the previous BOS (UG&PG)- EEE Meeting held on 10-08-2019.

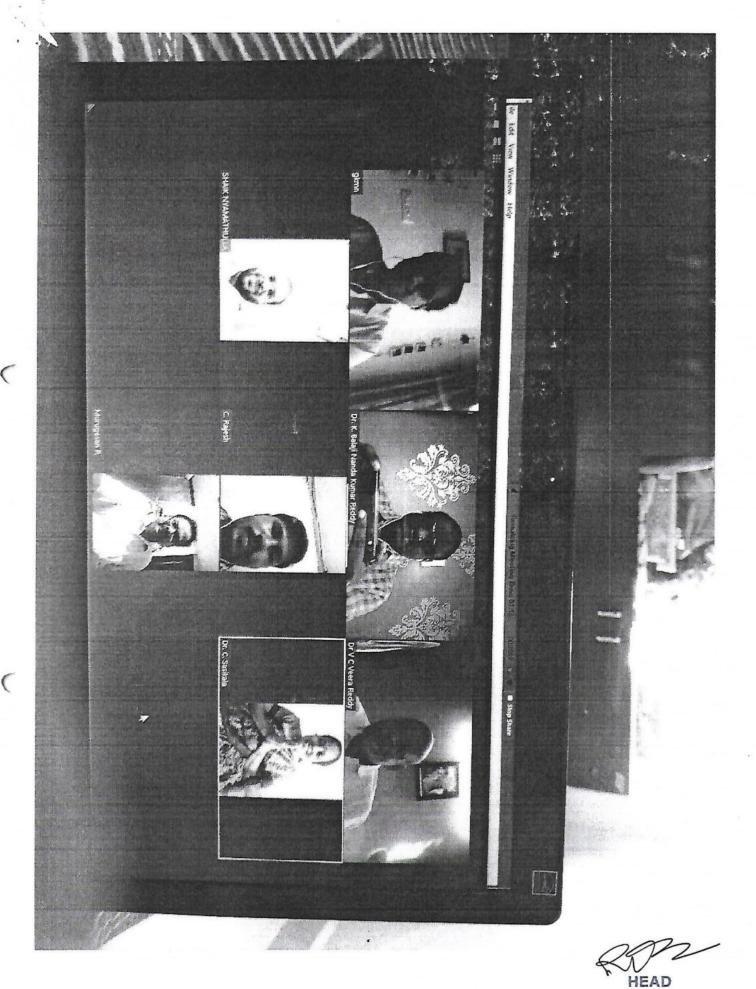
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Dept. of Electrical & Electronics Engg.
Camacharya Institute of Technology & Science
THRUPATI - 517 507



(d) 188E

Minutes of Meeting - BOS (UG) of

Electrical and Electronics Engineering dated 12-11-2020 at 2.30PM

Meeting Agenda:-

Based on APSCHE's Revised Academic Curriculum B.Tech Regular / Honers / Minor – In accordance with NEP – Mandatory to shift into New Curriculam as per APSCHE & JNTUA first year course structure (I-Sem & II –Sem) for 2020 admitted batch need to be approve from BOS Members.

> The BOS Members of the Department of Electrical and Electronics Engineering.

S.No	Name of the Person	Designation	Position	Signature
1	Dr. C. Sasikala	Professor & HOD	Chairman	CA3_
2	Dr. R. Murugesan	Associate Professor	Member	Regund
3	Dr. K. Balaji Nanda Kumar Reddy	Assistant Professor	Member	100 accept
4	Shaik Nyamathulla	Assistant Professor	Member	AS
5	C. Rajesh	Assistant Professor	Member	
6	Dr.M.Suryakalavathi	Professor of Electrical Engineering Department, JNTUCEH Kukatpally,HYD-85	University Nominated Subject Expert	Conducte e through
7	Dr.G.V. Marutheswar Rao	Professor in EEE Dept., SVUCE,SV University, Tirupathi-517502,A.P	University Nominated Subject Expert	Conducte through
8	Dr. V. C. Veera Reddy	Professor in EEE Dept., School of Engg. & Technology, Sri Padmavathi Mahila ViswaVidyalayam, Tirupathi-517502	Academic Council Nominee	conducte through
9	Mr.G.Krishnamurthy Naidu	Sr. General Manager-QA, Amararaja Batteries Ltd, Karakambadi, Tirupathi	Industry Representative	Conduction through
10	Mr. P. Parthasaradhi	Scientific officer/c, Department of Atomic Energy, Heavy Water Plant, Manuguru.	P.G.Alumni	conduct

Resolution: To Approve the syllabus for I Year courses of B.Tech (EEE) for 2020-21

Approved and received their concern letters through mails from External BOS members for the first year course of B.Tech EEE (I-Sem & II-Sem) for 2020 admitted batch.

Minutes of Meeting - BOS(UG) of Electrical & Electronics Engineering dated 12-11-2020 at 2.30PM

Meeting Agenda :-

Based on APSCHE's Revised Academic Curriculum B.Tech Regular / Honers / Minor – In accordance with NEP – Mandatory to shift into New Curriculam as per APSCHE & JNTUA first year course structure (I-Sem & II –Sem) for 2020 admitted batch need to be approve from BOS Members.

Modified Course Structure

AK20 Regulations

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI (AUTONOMOUS)

Course structure for Four Year Regular B.Tech. Degree Program
(Effective for the batches admitted from 2020-21)
ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)
INDUCTION PROGRAM (3 weeks duration)

- · Physical activity
- · Creative Arts
- Universal Human Values
- Literary
- · Proficiency Modules
- Lectures by Eminent People
- Visits to local Areas
- · Familiarization to Dept./Branch & Innovations

Semester I (First year)

S1. No.	Category	Category Code	Course Title		urs ; weel	7	Credits	Scheme of Examination (Max. Marks)		
			,	L	T	P	С	CIE	SEE	Total
1	Basic Science course	20ABS9901	Algebra and Calculus	3	0	0	3	30	70	100
2	Basic Science course	20ABS9902	Applied Physics	3	0	0	3	30	70	100
3	Humanities and Social science	20AHS9901	Communicative English	3	0	0	3	30	70	100
4	*Engineering Science Courses	20AES0304	Engineering Workshop Practice	1	0	4	3	30	70	100
5	Engineering Science Courses	20AES0501	Problem Solving and Programming	3	0	0	3	30	70	100
6	Humanities and Social science LAB	20AHS9902	Communicative English Lab	0	0	3	1.5	30	70	100
7	Basic Science course (LAB)	20ABS9907	Applied Physics Lab	0	0	3	1.5	30	70	100
8	Engineering Science Courses (LAB)	20AES0503	Problem Solving and Programming Lab	0	0	3	1.5	30	70	100
			Total credits				19.5	240	560	800

Semester II (First year)

930	099	027	2.61	stib	ıl cre	Tota				
30	-	30	0	0	0	7	Constitution of India	204MC9902	Mandatory course (AICTE suggested)	
100	02	30	J.5	3	0	0	ds.J (ToI) agnidT to tentetal	70 VEZ 02 00	Engineering Science Courses (LAB)	8
100	04	30	3.I	3	0	0	Сһетізту Lab	504BS9909	Basic Science course (LAB)	7
100	02	30	Z.I	ε	0	0	Basics of Civil and Mechanical Engineering Lab	20AES0102	Engineering Science Courses (LAB)	9
100	02	30	3	₽	0	I	Engineering Graphics	20AES0301	Engineering Science Courses	9
100	02	30	3	0	0	3	(ToI) agaidT to tearestal	70YE20202	Engineering Science Courses	Ð
100	04	30	٤ .	0	0	ε	Basics of Civil and Mechanical Engineering	20AES0101	Engineering Science Courses	ε
100	02	30	3	0	0	3	Сћетіѕту	70∀B29904	Basic Science courses	7
100	02	30	ε	0	0	3	Differential Equations and Vector Calculus	50ABS9906	Basic Science courses	I
Total	SEE	CIE	၁	ď	Т	r				
noiti	chemo amina ax. Ma	Exa	Credits		nts I		Sourse Title	Course	Category	.oV

Semester III (Second year)

noii	heme mina x. Ma	Ехз		16	nes be		Course Title	Course Code	Category	.oM
Tota	зее	CIE		ď	T	r				
100	02	30	3	0	0	ε	Transform Techniques and Complex Variables	Z0ABS9912	Basic Science courses	I
100	02	30	3	0	0	3	Electrical Circuits-I	20APC0201	Professional Core Course	7
100	02	30	3	0	0	ε	Electronic devices and circuits	20APC0401	Professional Core courses	3
100	02	30	3	0	0	3	Engineering Electromagnetics	20APC0202	Professional Core courses	ħ
100	02	30	3	0	0	3	Electrical Machines-I	20APC0203	Professional Core courses	9
100	02	30	3.1	3	0	0	Electrical Circuits-I Lab	20APC0204	Professional Core courses (LAB)	9
100	02	30	3.I	3	0	0	Electronic Devices and Circuits Lab	20APC0404	Professional Core courses (LAB)	
100	02	30	G.I	ε	0	0	Electrical Machines-I Lab	20APC0205	Professional Core courses (BAJ)	8
001		100	7	7	0	I			Skill oriented course*	
30	-	30	0	0	0	7	Environmental Studies	20AMC9903	Mandatory course (AICTE suggested)	
930	099	370	2.12		sti	cred	LetoT			



Dept. of Electrical & Electronics Engg.
Annumacharya Institute of Technology & Sciences
Annumacharya Institute of Technology & Sciences
TRUPATI - 517 507

Semester IV (Second year)

S.No	Category	Code	Course Title	Hours			Credits	Exa	heme mina x. Ma	tion
				L	T	P		CIE	SEE	Total
1	Engineering Science Courses	20AES0509	Basics of Python Programming	3	0	0	3	30	70	100
2	Basic Science Course /Prof core course	20APC0206	Electrical Circuits-II	3	0	0	3	30	70	100
3	Professional Core courses	20APC0207	Electrical Machines-II	3	0	0	3	30	70	100
4	Professional Core courses	20APC0208	Power Systems-I	3	0	0	3 .	30	70	100
5	Humanities and Social Sciences	20AHSMB01	Managerial Economics and financial analysis	3	0	0	3	30	70	100
6	Engineering Science Courses/Prof Core (Interdisciplinary) (LAB)	20AES0510	Basics of Python Programming Lab	0	0	3	1.5	30	70	100
7	Professional Core courses (LAB)	20APC0209	Electrical circuits-II Lab	0	0	3	1.5	30	70	100
8	Professional Core courses (LAB)	20APC0210	Electrical Machines-II Lab	0	0	3	1.5	30	70	100
	Skill oriented course*			1	0	2	2	100		100
				Tota	l cred	dits	21.5	340	560	900
	Inter	nship 2 Mont	hs (Mandatory) during summer	vacat	ion					
1	Honors/Minor courses (Th	e hours distri	bution can be 3-0-2 or 3-1-0 also)	4	0	0	4.	30	70	100

Semester V (Third year)

S No	Category	Category Code Course Title			Hou	rs	Credits	Scheme of Examination (Max. Marks		
			,	L	Т	P		CIE	SEE	Total
1	Professional Core courses	20APC0211	Power Systems-II	3	0	0	3	30	70	100
2	Professional Core courses	20APC0212	Power Electronics	3	0	0	3	30	70	100
3	Professional Core courses	20APC0213	Control Systems	3	0	0	3	30	70	100
	Open Elective	20AOE0201	Neural Networks & Fuzzy Logic							
4	Course/Job oriented		Computer Networks	2	0	2	3	30	70	100
	elective		Analog and Digital Communications							
	D (1 171 1	20APC0425	Analog and Digital IC Applications							
5	Professional Elective courses		Signals and Systems	3	0	0	3	30	70	100
	courses		Linear System Analysis					7		
6	Professional Core courses Lab	20APC0214	Control Systems Lab	0	0	3	1.5	30	70	100

]	Honors/Minor courses (The	hours distrib	oution can be 3-0-2 or 3-1-0 also)	4	0	0	4	30	70	100
				Tota	l cre	lits	21.5	390	490	880
Sum	mer Internship 2 Months (Mandat	ory) after second semester	year (to be evaluated during V	0	0	0	1.5	50		50
	Mandatory course (AICTE suggested)	20ANC9904	Professional Ethics and Human Values	2	0	0	0	30		30
	Skill advanced course/ soft skill course*			1	0	2	2	100		100
7	Professional Core courses Lab	20APC0215	Power Electronics Lab	0	0	3	1.5	30	70	100

Semester VI (Third year)

SNo	Category	Code	Course Title	Hours			Hours			Hours		Hours		Hours		Hours		Ho		Hours		Hours		Hours		Exa	heme mina x. Ma	tion
			-	L	T	P		CIE	SEE	Total																		
1	Professional Core courses	20APC0216	Electrical Measurements and Instrumentation	3	1	0	3	30	70	100																		
2	Professional Core courses	20APC0217	Power System Analysis	3	0	0	3	30	70	100																		
3	Professional Core courses	20APC0417	Microprocessors and Microcontrollers	3	0	0	3	30	70	100																		
4	Professional Elective	20APE0201	Switch Gear and Protection	3	0	0	3																					
	courses	20APE0202	Programmable Logic Controller & its Applications					30	70	100																		
	•	20APE0203	Switched Mode Power Converters																									
5	Open Elective Course/Job	20AOE0202	Non Conventional Energy sources	2	0	2	3																					
	oriented elective		Mathematical Modeling					30	70	100																		
			Business Data Analytics																									
6	Professional Core courses Lab	20APC0219	Electrical Measurements Lab	0	0	3	1.5	30	70	100																		
7	Professional Core courses Lab	20APC0220	Power Systems and simulation Lab	0	0	3	1.5	30	70	100																		
8	Professional Core courses Lab	20APC0420	Microprocessors and Microcontrollers Lab	0	0	3	1.5	30	70	100																		
	Skill advanced course/ soft skill course*			1	0	2	2	100	-	100																		
	Mandatory course (AICTE)	20AMC9901	Biology for Engineers	2	0	0	0	30	-	30																		
				Tota	l cre	dits	21.5	370	560	930																		
I	Honors/Minor courses (Th	e hours distr	ibution can be 3-0-2 or 3-1-0 also)	4	0	0	4	30	70	100																		

Semester VII (Fourth year)

Sno	Category	Code	Course Title	Hours		Hours			Hours			Hours			Hours			Hours		Hours		Hours		Hours		Exa	heme mina x. Ma	tion
			·	L	Т	P		CIE	SEE	Tota																		
1		20APE0204	Electrical Distribution Systems																									
	Professional Elective	20APE0205	Power Semiconductor Drives	3	0	0	3	30	70	100																		
	courses	20APE0206	Advanced Control Systems																									
2		20APE0207	Power Quality																									
	Professional Elective courses	20APE0208	Power System Operation and Control	3	0	0	3	30	70	100																		
			Digital Signal Processing																									
3		20APE0209	High Voltage Engineering																									
	Professional Elective	20APE0210	Flexible AC Transmission Systems	3	0	0	3	30	70	100																		
	courses	20APE0211	Power System Dynamics and Control																									
4	0 11 .: 0 /	20APE0411	Embedded systems						,																			
	Open Elective Courses/ Job oriented elective		Data Base Management Systems	2	0	2	3	30	70	100																		
	Job oriented elective	20AOE0203	Utilization of Electrical Energy																									
5		20AOE0204	HVDC Transmission	ymerce.																								
	Open Elective Courses/		VLSI Design	2	0	2	3	30	70	100																		
	Job oriented elective	20AOE0205	Smart Grid																									
6.	*Humanities and Social Science Elective		Universal Human Values/Understanding Harmony	3	0	0	3	30	70	100																		
	Skill advanced course/ soft skill course*			1	0	2	2	100		100																		
ndus	trial/Research Internship 2 (to be evaluated			0	0	0	3	100		100																		
e comitate de				Tota	l cre	dits	23	380	420	800																		
Ho	nors/Minor courses (The l	ours distrib	ution can be 3-0-2 or 3-1-0 also)	4		0	4	30	70	100																		

Semester VIII (Fourth Year)

SI. No.	Category	Code	Course Title]	Hours per week										Credits	Exa	cheme amina ax. Ma	tion
				L	T	P		CIE	SEE	Tota								
1	Major Project	20APR0201	Project Project work, seminar and internship in industry	0	0	0	12	60	140	200								
			INTERNSHIP (6 MONTH	(S)					-									
1			Total cre	edits		T	12	60	140	200								



ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI

(Autonomous) ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)

Date: 12.11.2020

Dear Sir / Madam

Sub: APSCHE's Revised Academic Curriculum B.Tech Regular / Honers / Minor – In accordance with NEP – Mandatory to shift into New Curriculam as per APSCHE & JNTUA – Your consent requested to start with the tentative I year course structure enclosed – Reg.

APSCHE through "Engineering Curriculum Revision Committee" has come up with the Revised B.Tech curriculum in accordance with National Educational Policy, and gave the course structure template to fit various classes of courses by the University and autonomous colleges fulfilling the specified conditions in the Revised Academic curriculum.

Our Institution became autonomous in 2019 and developed 2019 regulations last year as through it's authentic bodies like Boards of studies, CAC etc. Recently BOS & CAC meetings were held to approve II year syllabus of 2019 regulations for 2019 admitted students. As it is mandatory for the Institution to shift to revised academic curriculum compelled by APSCHE, only I year course structure is now tentatively developed by the departments, by simply fitting the courses in the template, and the syllabus developed for courses developed / approved last year is simply followed.

I request you to give your account as BOS external member to start I year programme with the revised structure (for 2020 admitted batch), as we are running short of time and can't organize BOS again within short notice. All these things will be ratified in the next BOS being conducted after 3 months.

CHAIRMAN BOS

HEAD

Dept. of Electrical & Electronics Engg.
Amamacharya institute of Technology & Science
TIRUPATI - 517 507

PRINCIPAL & CHAIRMAN

Combined BOS

ANNAMACHARYA INSTITUTE OF
TECHNOLOGY & SCIENCES
VENKATAPURAM (VIII.)
RENIGUNTA (M), TIRUPATI-517 520



ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES (AUTONOMOUS)

Approved by AICTE, New Delhi & Permanent Affiliation to JNTUA, Anantapuramu.

Recognized under sections 2(f) & 12(B) of UGC Act 1956.

Two B.Tech Programmes (ECE & CSE) Accredited by NBA-New Delhi

Accredited by NAAC-Bangalore & IEI Kolkata, A-Grade awarded by AP Knowledge Mission

Venkatapuram (V), Karakambadi Road, Renigunta (M), Tirupati – 517 520

Minutes of the Meeting of the Board of Studies (UG & PG), Department of Electrical & Electronics Engineering was held at 2.30 pm on 28-09-2021, at Annamacharya Institute of Technology & Sciences-Tirupati.

MEMBERS PRESENT:

S.No	Name of the Member & Posit	ion in BOS
1	Dr.R.Murugesan	CHAIRMAN
2	Dr.M.Suryakalavathi	Member
3	Dr.V.C.Veera Reddy	Member
4	Dr.T.Gowri Manohar	Member
5	Dr.A.Senthilkumar	Member
6	Dr.P.Sarvanan	Member
7 -	Mr. Krishnamurthy Naidu Galla	Member
8	Dr.K.Balaji Nandakumar Reddy	Member
9	Dr.R.Kalyan	Member
10	Ms.Y.Vijayashambavi	Member

The Following Agenda items were discussed and deliberated upon:

Item - 1: To discuss and finalize the Course Structure of AK19 & AK20 Regulations B.Tech course.

Dr. R.Murugesan, Head of the Department - EEE presented the Course Structures of B.Tech., AK 19 & AK 20 Regulations to be implemented w.e.f. 2021-2022.

Resolution: - After thorough discussions, the Board of studies of Department of EEE approved the Course Structures of B.Tech., AK 19 & AK 20 Regulations to be implemented w.e.f. 2021-2022. (Copy of Course Structure and syllabi is enclosed as Annexure-1 & 2).

Item - 2: To discuss and finalize the syllabi of 3-1, 3-2 semesters of AK19 Regulations and Third, fourth semesters of AK 20 Regulations to be implemented from 2021-2022.

Resolution: - After thorough discussions, the Board of studies of Department of EEE approved the syllabi of 3-1, 3-2 semesters of AK19 Regulations and Third, fourth semesters of AK 20 Regulations to be implemented w.e.f. 2021-2022. (Copy of Course Structure and syllabi is enclosed as Annexure-1 & 2).

Item - 3: To prepare the panels of examiners and paper setters from external experts.

Panels of Paper setters and examiners were reviewed and approved.

Name	Signature			
Dr.R.Murugesan	ROS			
Dr.K.Balaji Nandakumar Reddy	ferance of			
Dr.R.Kalyan	Rohm			
Ms.Y.Vijayashambavi	Mijaya Sambani			

HEAD

Dept. of Electrical & Electronics Engg. Annamacharya Institute of Technology & Sciences

TIRUPATI - 517 507



ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES (AUTONOMOUS)

Approved by AICTE, New Delhi & Permanent Affiliation to JNTUA, Anantapuramu.

Recognized under sections 2(f) & 12(B) of UGC Act 1956.

Two B.Tech Programmes (ECE & CSE) Accredited by NBA-New Delhi

Accredited by NAAC-Bangalore & IEI Kolkata, A-Grade awarded by AP Knowledge Mission

Venkatapuram (V), Karakambadi Road, Renigunta (M), Tirupati – 517 520

Minutes of the Meeting of the Board of Studies (UG & PG), Department of Electrical & Electronics Engineering was held at 2.00 pm on 8-07-2022, at Annamacharya Institute of Technology & Sciences-Tirupati.

MEMBERS PRESENT:

S.No	Name of the Member & Position in BOS					
1	Dr.R.Murugesan	CHAIRMAN				
2	Dr.V.C.Veera Reddy	Member				
3	Dr.T.Gowri Manohar	Member				
4	Dr.A.Senthilkumar	Member				
5	Dr.P.Sarvanan	Member				
6	Mr. Krishnamurthy Naidu Galla	Member				
7	Dr.K.Balaji Nandakumar Reddy	Member				
8	Ms.Y.Vijayashambavi	Member				

The Following Agenda items were deliberated and agreed upon:

Item - 1: To deliberate and finalize the Course Structure pertaining to third and final year of AK20 Regulations B. Tech course.

Dr. R. Murugesan, Head of the Department - EEE presented the Course Structure of pertaining to third year and final year B.Tech., AK 20 Regulations to be implemented w.e.f. 2022-2023.

Resolution: - After thorough deliberations, the Board of studies of Department of EEE approved the Course Structures of B.Tech., AK 20 Regulations to be implemented w.e.f. 2022-2023 for third and final year duration. (Copy of Course Structure is enclosed as Annexure-1).

Item - 2: To deliberate and finalize the syllabi of fifth and sixth 2 semesters of AK20 Regulations & 4-1, 4-2 semesters of AK 19 Regulations to be implemented from 2022-2023.

Resolution: - After thorough deliberations, the Board of studies of Department of EEE approved the syllabi of fifth and sixth semesters of AK20 Regulations & 4-1 semester of AK 19 Regulations to be implemented from 2022-2023. (Copy of syllabi is enclosed as Annexure-2).

Item - 3: To outline the guidelines for two MOOCS courses to be undertaken mandatorily by 4-2 students of AK19 Regulations and Sixth semester B. Tech students of AK20 Regulations.

Resolution: - After thorough deliberations, the following guidelines were laid down for undertaking two MOOCS courses at 4-2 semester, B. Tech, AK19 Regulations students and Sixth semester of AK20 regulations students.

- 1. Two MOOC courses are introduced in AK19 curriculum of IV B. Tech II Semester (4-2 Semester) and in respect of AK20 B. Tech curriculum, one MOOC in Sixth semester of Third year & another MOOC in Seventh semester of B. Tech course are introduced. Students should compulsorily submit a pass certificate generated by NPTEL for verification and for award of credits. As understood, Certificate by NPTEL will be issued only when a registered students submit assignments regularly as per schedule given and get a minimum of 10 out of 25 marks; and obtain a minimum of 30 marks out of 75 marks in the end examination. (Both criteria must be met to be declared pass by NPTEL).
- Out of two MOOC courses introduced, one MOOC shall be of Professional Elective (PE)
 and another shall be Open Elective (OE) category. Head of the department will
 announce options available on the NPTEL platform.
- Students must select courses that have 3 credit weightages only, so as to fit into the
 existing credit scheme. Courses with minimum 8 weeks learning duration only shall be
 chosen for MOOC courses.
- Marks or percentage obtained will be converted to grade points and will be reflected in the grade sheet (Marks Memo) pertaining to the respective semester.
- Swayam NPTEL Courses will be notified on the platform before 1st November for January semester; and will be notified before 1st June for July semester. Accordingly, HOD shall issue notification/circular to the teachers connected and to the concerned students.

- 6. In case if the student fails/ absent for the MOOC courses in the regular examination he/she will be allowed to register for next supplementary examination in manual mode at the Institute as he may not be able to avail courses through MOOC platform within the stipulated time to clear the pending course during the next season.
- The pattern of examination for manual mode in supplementary will be same as that of NPTEL question paper.
- 8. Examination fee paid for the 8th semester to the exam branch of the college is only for project work, internships and seminars. The exam fee payable for taking NPTEL online courses shall be borne by the students itself. Separate registration fee will be applicable for supplementary appearance of MOOC, in manual mode.
- Teachers connected to the student group for guidance of MOOC shall also register for the course, go through the e-content in it to provide proper guidance to the students and also to get his 'mentor certificate'.
- Registration facility extension of dates if any shall be continuously monitored by the HOD & students.

Item - 4: To review and revise codes of subjects offered to other Department students.

The following list of subject codes were reviewed and the revision of codes was approved.

S.NO	REGULATIONS	BRANCH	YEAR	SEM	SUB.CODE	NAME OF THE SUBJECT
1	AK20	ECE	1	2	20AES0201	NETWORK THEORY
2	AK20	ECE	1	2	20AES0203	NETWORK THEORY LAB
3	AK20	CIVIL	1	2	20AES0202	BASICS OF ELECTRICAL & ELECTRONICS NGINEERING
4	AK20	CIVIL	1	2	20AES0204	BASICS OF ELECTRICAL & ELECTRONICS NGINEERING LAB
5	AK20	MECH	1	1	20AES0202	BASICS OF ELECTRICAL & ELECTRONICS NGINEERING
6	AK20	МЕСН	1	1	20AES0204	BASICS OF ELECTRICAL & ELECTRONICS NGINEERING LAR
7	AK20	CSE & CIC	2	1	20AES0205	BASICS OF ELECTRICAL & ELECTRONICS NGINEERING
8	AK20	CSE & CIC	2	1 .	20AES0206	BASICS OF ELECTRICAL & ELECTRONICS NGINEERING LAR
9	AK20	CSE, ECE, EEE	3	2	20APE0204	NEURAL NETWORKS AND FUZZY LOGIC
10	AK20	ECE	4	1	20A0E0202	PROGRAMMABLE LOGIC CONTROLLERS
11	AK20	ECE	3	2	20A0E0203	ELECTRICAL TECHNOLOGY

Item - 5: To deliberate and approve the list of courses offered by the Department that are to be undertaken for earning Honours and Minor Degree.

HONOURS IN ELECTRICAL ENGINEERING

S.NO	SUB.CODE	COURSE NAME	L	T	P	CREDITS
1	20AHN0201	ADAPTIVE CONTROL SYSTEMS	3	1	0	4
2	20AHN0202	AC DRIVES	3	1	0	4
3	20AHN0203	HYBRID AND ELECTRIC VEHICLES	3	1	0	4
4	20AHN0204	POWER SYSTEM WIDE AREA MONITORING AND CONTROL	3	1	0	4
5	20AHN0205	RESTRUCTURED POWER SYSTEMS	3	1	0	4
		TOTAL				20

MINOR DEGREE IN ELECTRICAL ENGINEERING

S.NO	SUB.CODE	COURSE NAME	L	T	P	CREDITS
1	20AMN0201	BASIC ELECTRICAL CIRCUITS	2	1	0	3
2	20AMN0202	AC MACHINES	2	1	0	3
3	20AMN0203	CONTROL SYSTEMS	2	1	0	3
4	20AMN0204	POWER SYSTEM ARCHITECTURE	3	0	0	3
5	20AMN0205	MEASUREMENTS & SENSORS	2	1	0	3
6	20AMN0206	MINOR DISCIPLINE PROJECT		-	-	5
		TOTAL				20

Item - 6: To Review and approve existing AK19 Course structure and syllabus of M.Tech - Power systems for continuance.

After review of contents of existing AK19 Course structure and syllabus of M.Tech - Power systems, it was approved for continuation.

Item - 7: To prepare the panels of examiners and paper setters from external experts.

Panels of Paper setters and examiners were reviewed and approved.

S.No	Name of the BOS Member	Signature			
1	Dr.R.Murugesan	San W			
2	Dr.K.Balaji Nandakumar Reddy	1000000			
3	Dr.V.C.Veera Reddy	accon,			
4	Dr.T.Gowri Manohar				
5	Dr.A.Senthilkumar	Virtual presence			
6	Dr.P.Sarvanan	(Attended through			
7	Mr. Krishnamurthy Naidu Galla	Zoom application)			
8	Ms.Y.Vijayashambavi				

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HEAD

Dept. of Electrical & Electronics Engg.
Annamacharya Institute of Technology & Sciences.
TIRUPATI - 517 507

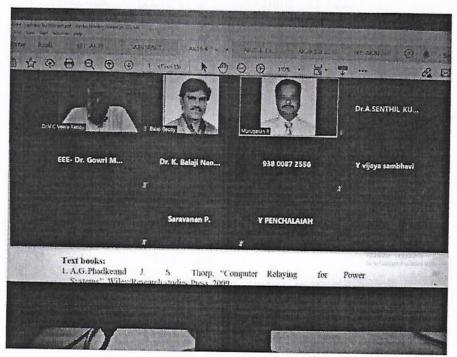
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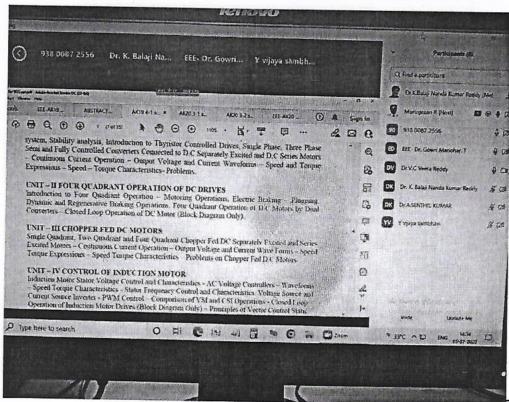
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DEPRTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SCREESSHOT IMAGES OF BOS MEETING HELD ON 5.7.22





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