Department of Electronics and Communication Engineering

Standing Committee to Board of Studies Meeting - 20

Time: 10.30 AM

Venue: Online WebEx

27thFeb 2021

Minutes of the meeting

Reporting items:

1,	Faculty achievements.
2.	Current placement status of Y17 admitted students
3.	List of certification courses offered under ECE for AY 20201-21 Even semester.

Annexure-I

Agenda items:

_	
1.	Approval of new B. Tech Programs offered by ECE.
	Resolution/suggestions:
	 It is resolved to approve the two new inter-disciplinary UG programs offered with the collaboration of CSE, ECE, ECM, and ME, where the major role will be by the ECE department. The approved programs are listed below 1. B. Tech IoT 2. B. Tech Automation & Robotics
2.	Approval of new M. Tech programs offered under ECE.
	Resolution/suggestions:
	• It is resolved to approve the three new PG programs offered under the department of ECE and are listed below 1. M. Tech IoT

3. Approval for increase the intake for PG program M. Tech VLSI.

2. M. Tech Automation & Robotics 3. M. Tech Wireless Sensor Networks

Resolution/suggestions:

 All the committee members agreed to increase the intake for existing PG program, M. Tech VLSI.

Other Suggestions:

1. Dr. V. K. Mittal Suggested to prepare the B. Tech & M. Tech course structure and curriculum as per the guidelines of AICTE.

BOS Chair ECE Depart Green Fields Vandeswaram Guntur Dist., A.P. PIN: 522 502

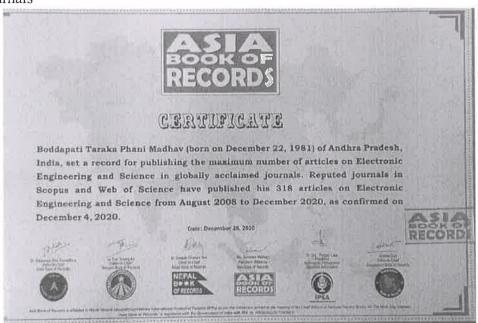


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Annexure-I

1. Dr. B. T. P. Madhav, Record for publishing maximum number of articles in reputed journals



2. Placement status of Y17 admitted batch

DEPARTMENT OF	ELECTRONI	KLEF CS AND COM	MUNICATION EN	GINEERING
Category	Pega WTN NWTN			Total
Registered	105	399	52	556
Placed	94	266	29	389
Not Interested	0	3	0	3
Backlog/Low CGPA	0	1	0	1
Yet to be Placed	11	129	23	163
	1. Total Placement Registered			556
	2. Placed			389
	3. Yet to be Placed			163
SUMMARY	4. Total Number of Placement Offers			683
SOMMARI	5. Total No. of Companies visited for ECE			32
	6. Total No. of NR Students Placed			23
	7. Highes	st package offer	red (LPA)	12.2

Dr. M. SUMAIN
Prof. For B. Head
Depart of ECE
BOS Chair, ECE
Green Fleton and deswaram
Guntur Dist., A.P. PIN: 522 502



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Prog	Program: B.Tech ECE AY 2020-21: Even Semester					
Sl.	Specialization	Course Name	Level (1/2/3/4)	Year & sem		
1	NA	NI CLAD	0	2.2(Y19), 3.2(Y18) & 4.2(Y17)		
2	NA	NI CLD	1	4.2(Y17)		
3	NA	NI CLA	2	4.2(Y17)		
4	ІоТ	IOT Analytics & Data Sciences	1	3.2(Y18) & 4.2(Y17)		
5	101	Advanced IOT Analytics with Machine Learning	2	4.2(Y17)		
13		Verification using system verilog	1	3.2(Y18) & 4.2(Y17)		
14		Fundamentals of UVM (Universal Verification Methodology)	2	4.2(Y17)		
15		Electronic circuit & Analog Layout Design	1	3.2(Y18) & 4.2(Y17)		
16	VLSI	CMOS Analog Circuit & Layout Design	2	4.2(Y17)		
17		Synthesis and Timing analysis	1	3.2(Y18) & 4.2(Y17)		
18		Physical Design and Verification	2	4.2(Y17)		
19		VLSI & Embedded System and Applications	1	4.2(Y17)		
20		Huawei Certified ICT Associate Routing and Switching (HCIA-R&S)	1	3.2(Y18) & 4.2(Y17)		
21	Data Communication	Huawei Certified ICT Professional Routing and Switching (HCIP-R&S)	2	4.2(Y17)		
22	S	Huawei Certified ICT Expert Routing and Switching(HCIE-R&S)	3	4.2(Y17)		
23	RF &	RF Systems-Modelling, Design and Simulation	1	3.2(Y18) & 4.2(Y17)		
24	Microwave	Fabrication, Testing and Validation	2	4.2(Y17)		
25		Huawei Certified ICT Associate Artificial Intelligence (HCIA-AI)	1	3.2(Y18) & 4.2(Y17)		
26		Huawei Certified ICT Professional Artificial Intelligence (HCIP-AI)	2	4.2(Y17)		
27	— Data	Huawei Certified ICT Expert Artificial Intelligence (HCIE-AI)	3	4.2(Y17)		
28	Computing	Artificial Intelligence Engineer	1	3.2(Y18) & 4.2(Y17)		
29		Automation Test Engineer	2&3	4.2(Y17)		
30		Data Science Certification Training	1	3.2(Y18) & 4.2(Y17)		
31	-	Data Science with Python Training Course	2	4.2(Y17)		
32		COE Program in Cyber Security/Network Security Associate/ Network Security Professional	2&3	4.2(Y17)		

BOS Chair ECE Del Green Field Goswaram Guntur Dist., A.P. PIN: 522 502

Invitation for ECE Dept. Standing Committee to Board of Studies Meeting (27-02-2021) 10.30 AM, KLEF. Reg

HOD-Department of Electronics and Communication Engineering <hod.ece@kluniversity.in>
Sat 27-02-2021 10:22

To: Dr Vinay Kumar Mittal <drvkmittal@kluniversity.in>; Dr Koteswararao L . <koteswararao@kluniversityh.in>; mgoutham@klh.edu.in <mgoutham@klh.edu.in>; Advisor Student Affairs <habibulla@kluniversity.in>; Rajesh Vullanki <rajesh4444@kluniversity.in>; Sarat KK <kksarat@kluniversity.in>; Dr. ASCS Sastry <ascssastry@kluniversity.in>; Sri Kavya K Ch <kavya@kluniversity.in>; Dr.MVN <mvn@kluniversity.in>; Dr Madhukar DeshmukhESHMUKH <madhukar_aau@kluniversity.in>; Lakshman Pappula <lakshman.pappula@kluniversity.in>; Dr.I.Govardhani <govardhanee_ec@kluniversity.in>; M.S.G.Prasad <msivagangaprasad@kluniversity.in>; K Srinivasa Rao <drksrao@kluniversity.in>; Dr.P.S.Srinivas Babu <satyasrinivas.p@kluniversity.in>; Dr.Penke Satyanarayana <satece@kluniversity.in>; P.V.V.Kishore <pvvkishore@kluniversity.in>; Sridhar Miriyala <sridhar.m@kluniversity.in>; S Koteswara Rao <skrao@kluniversity.in>; Dr. G.V.S.RAO <gvs0raos@kluniversity.in>
Cc: PRINCIPAL - COE <principal.coe@kluniversity.in>; Raghuveervr <raghuveervr@kluniversity.in>; Suman Maloji <suman.maloji@kluniversity.in>

1 attachments (10 KB)

Standing Committee to BOS Members February 2021.xlsx;

Dear Sir/Madam,

Greetings of the Day,

Department of ECE, KLV & KLH are striving to evolve as globally renowned departments for imparting quality technical education for budding engineers, in line with university mission. We are focusing on modification of our curriculum biannually to cater to the contemporary industrial requirements and ratify these modifications through the standing committee to 'Board of studies (BOS)'. I am very happy to invite you for the standing committee to Board of Studies (BOS) members are

appointed as per the attachment.

It is our pleasure to invite you all for our BOS meeting on 27-02-21 (Saturday) from 10.30 AM onward through WebEx platform and the details are given below

Meeting link:

https://kluniversity.webex.com/kluniversity/j.php?

MTID=m3f351733883e3fb957c9fa2755a6239f

Meeting number:

158 613 1449

Password:

ahFM9VNPx34

Host key:

787584

Reporting items:

- 1. Faculty achievements
- 2. Placement status
- 3. List of certification courses offered in AY 2020-21 Even Semester

Agenda items:

- 1. Approval of new B. Tech Programs offered by ECE.
- 2. Approval of new M. Tech programs offered under ECE.
- 3. Other points with discretion of the Chair.

Thanks & Regards
Dr. Suman Maloji M.Tech., Ph.D
Professor and Head
Department of Electronics and Communication Engineering

(DST -FIST Sponsored Department)

Koneru Lakshmaiah Education Foundation (Deemed to be University estd., u/s 3 of UGC Act 1956) Green Fields, Vaddeswaram 522502. Guntur Dt., Andhra Pradesh, INDIA.

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http://www.kluniversity.in

KLEF

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGG. Standing Committee to BOARD OF STUDIES MEETING

DATE: 27-02-2021 TIME: 10.30 AM

S. No	Name of the Faculty	Designation
1	Dr. M. Suman, Professor & HOD	BOS Chair
2	Dr. Vinay Kumar Mittal, Professor & Dept. Chair	Member
3	Dr. L. Koteswara Rao, Professor & Principal, KLH	Member
4	Dr. M. Goutham, Assoc. Professor, HOD-ECE, KLH	Member
5	Dr. Habibullah Khan, Professor & Dean Student Affairs	Member
6	Dr. V Rajesh, Professor & Dean P & D,	Member
7	Dr. K.Sarat Kumar, Professor	Member
8	Dr. A.S.C.S.Sastry, Professor & COE	Member
9	Dr. K.Ch.Sri Kavya, Professor	Member
10	Dr. M Venkata Narayana, Professor & DHOD	Member
11	Dr. Madhukar Deshmukh, Professor & DHOD	Member
12	Dr. Lakshman Pappula, Assoc. Professor & DHOD	Member
13	Dr. I.Govardhani, Professor & RPAC	Member
14	Dr. M.Siva Ganga Prasad, Professor & HOD ECM	Member
15	Dr. P. Satya Srinivas Babu, Professor	Member
16	Dr. P Satyanarayana, Professor	Member
17	Dr. P V V Kishore, Professor	Member
18	Dr. M Sridhar, Professor, HOD-BES	Member
19	Dr. S Koteswara rao, Professor	Member
20	Dr. G V Subbarao, Professor & RPAC	Member
21	Dr. M Venugopal Rao Professor & Assoc. Dean IQAC	Member
22	Dr. B T P Madhav, Professor & Assoc. Dean R&D	Member
23	Dr. D Venkat Ratnam, Professor	Member
24	Dr. K Srinivas Rao, Professor	Member
25	Dr. K Kumar Naik, Professor	Member
26	Dr. V. S. V. Prabhakar, Professor & Director IC	Member
27	Dr. K.S.Ramesh, Professor	Member
28	Dr. K.Hari Kishore, Professor & Assoc. Dean	Member
29	Dr. Md.Z Rehman, Professor	Member
30	Dr. P.Pardhasaradhi, Professor	Member
31	Dr. B.Polaiah, Professor	Member
32	Dr. Fazal Noorbasha, Assoc. Professor & Assoc.Dean	Member
33	Dr. Arun Metha, Assoc. Professor	Member
36	Dr. M. Ravi Kumar, Asst. Professor	Member





Department of Electronics and Communication Engineering

Department Academic Committee Meeting

26th February 2021

Time: 10 AM

Online WebEx Meeting

Reporting items

- a. Faculty awards and recognitions
- b. Placement status
- c. List of Certification Courses offered by ECE A.Y 2020-2021.

Agenda Points:

- 1. Approval of new B. Tech Programs offered by ECE.
- 2. Approval of new M. Tech programs offered under ECE.
- 3. Discussion on student and faculty feedback (Stake holder's feedback)

Minutes of the meeting

- 1. HOD has presented the faculty awards, various research activities conducted during the AY 2020-21 and the current placement status.
- 2. All DAC members approved the introduction of new B. Tech programs offered under ECE.
 - a. B. Tech in Internet of Things
 - b. B. Tech in Automation & Robotics
- 3. All DAC members approved the introduction of new M. Tech programs offered under ECE along with existing programs (M. Tech RADAR & Communication, M. Tech VLSI)
 - a. M. Tech in Automation & Robotics
 - b. M. Tech in IoT
 - c. M. Tech in Wireless Sensor Networks
- 4. Stake holder's feedback is discussed at length for the enhancement of curriculum and teaching learning process.

Dr. Dead ECE

HOD ECE

Green Field Vaddeswaram
Guntur Dist., A.P. PIN: 522 502

DAC Meeting at 10 AM on 26-02-2021, ECE Department -Reg.

HOD-Department of Electronics and Communication Engineering < hod.ece@kluniversity.in> Thu 2/25/2021 9:32 PM

To: ECE Faculty <ecefaculty@kluniversity.in>

Cc: Suman Maloji <suman.maloji@kluniversity.in>; PRINCIPAL - COE <principal.coe@kluniversity.in>; Raghuveervr <raghuveervr@kluniversity.in>; Dr Vinay Kumar Mittal <drvkmittal@kluniversity.in>

1 attachments (64 KB) DAC CIRCULAR Feb 2021.docx:

Dear faculty,

Good Evening to all.

DAC meeting is scheduled on 26-02-2021, 10.00 AM.

The major agenda points and list of members constituted for DAC are detailed in the attachment.

We request all the DAC members to attend the meeting using below link

https://kluniversity.webex.com/kluniversity/j.php?MTID=m26b0d429b5dec11712a5e10b6f3d2613

Meeting number: 158 830 4934

Password: 3RgaFmfZ3G3

Thank you, with best regards

Dr. Suman Maloji M.Tech., Ph.D

Professor and Head

Department of Electronics and Communication Engineering

(DST -FIST Sponsored Department)

Koneru Lakshmaiah Education Foundation

(Deemed to be University estd., u/s 3 of UGC Act 1956)

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http://www.kluniversity.in

Date: 26-02-2021,

DEPARTMENT OF ELECTRONICS AND CMMUNICATION ENGINEERING

CIRCULAR

The Department Academic Committee meeting will be conducted on 26-02-2021 at 10.00 A.M through WebEx.

Reporting items

- a. Faculty awards and recognitions
- b. Placement status
- c. List of Certification Courses offered by ECE A.Y 2020-2021.

Agenda Points:

- 1. Approval of new B. Tech Programs offered by ECE.
- 2. Approval of new M. Tech programs offered under ECE.
- 3. Discussion on student and faculty feedback (Stake holder's feedback).

The list of members constituted for DAC meeting is as follows

S. No	Emp. No	Name of the Faculty, Designation	Position
1	5924	Dr. Vinay kumar Mittal, Professor	Dept. chair
2	841	Dr. M. Suman, Professor & HOD	BOS Chair
3	731	Dr. M. Venkata Narayana, Professor & DyHOD	Member
4	5986	Dr. Madhukar Deshmukh, Professor & DyHOD	Member
5	4858	Dr. P. Lakshman, Assoc. Professor & DyHOD	Member
6	928	Dr. K. Ch. Sri Kavya, Professor	Member
7	6362	Dr. Habibulla Khan, Professor & Advisor Dean(SA)	Member
8	4444	Dr. V. Rajesh, Professor & Dean (P&D)	Member
9	4769	Dr. V. S. V. Prabhakar, Professor & Director-IC	Member
10	855	Dr. I. Govardhani, Professor & RPAC Chair	Member
11	1712	Dr. K. S. Ramesh, Professor	Member
12	1737	Dr. B. T. P. Madhav, Professor & Assoc. Dean R&D	Member
13	2326	Dr. K. Sarat Kumar, Professor	Member
14	2457	Dr. K. Hari Kishore, Professor & Assoc. Dean SF	Member
15	2462	Dr. P. Satyanarayana, Professor	Member
16	2513	Dr. P. Satya Srinivas Babu, Professor	Member
17	2469	Dr. M. Sridhar, Professor	Member
18	2684	Dr. D. Venkata Ratnam, Professor	Member
19	2838	Dr. G. V. Subbarao, Professor & RPAC Chair	Member



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20	2922	Dr. M. Venu Gopala Rao, Professor & Assoc. Dean IQAC	Member
21	3144	Dr. K. Kumar Naik, Professor	Member
22	3388	Dr. A. S. C. S. Sastry, Professor & COE	Member
23	3413	Dr. Md. Z Rehman, Professor	Member
24	3452	Dr. P. Venkat Vijay Kishore, Professor	Member
25	3621	Dr. P. Pardhasaradhi, Professor, I/C PG & Assoc. Dean R&D	Member
26	3843	Dr. S. Koteswararao, Professor	Member
27	3867	Dr. K. Srinivasarao, Professor	Member
28	4387	Dr. B. Polaiah, Professor	Member
29	6303	Dr. P. Satya Srinivas Babu, Professor	Member
30	1181	Dr. M. Ravi Kumar, Assoc. Professor	Member
31	1748	Dr. N. V. K. Ramesh, Assoc. Professor	Member
32	2221	Dr. B. Murali Krishna, Assoc. Professor	Member
33	2224	Dr. G. Venkata Genesh, Assoc. Professor	Member
34	2455	Dr. M. Siva Kumar, Assoc. Professor	Member
35	2456	Dr. Syed Inthiyaz, Assoc. Professor	Member
36	2488	Dr. Fazal Noorbasha, Assoc. Professor & Assoc. Dean AC	Member
37	2721	Dr. Nagesh Mantravadi, Assoc. Professor& Assoc. Dean IQAC	Member
38	2812	Dr. M. V. D. Prasad, Assoc. Professor	Member
39	2902	Dr. G. R. K. Prasad, Assoc. Professor & Assoc. Dean P&D	Member
40	2978	Dr. D. Bhavana, Assoc. Professor	Member
41	2982	Dr. C. Sreevardhan, Assoc.Professor	Member
42	2994	Dr. Ch. Raghava Prasad, Assoc. Professor	Member
43	3066	Dr. N. Siddaiah, Assoc. Professor	Member
44	3864	Dr. China Satyanarayana, Assoc. Professor	Member
45	4272	Dr. G. Sai Krishna Santosh, Assoc. Professor	Member
46	4291	Dr. S. Sunithamani, Assoc. Professor	Member
47	4608	Dr. Sampad Kumar Panda, Assoc. Professor	Member
48	4719	Dr. Y. Usha Devi, Assoc. Professor	Member
49	4958	Dr. M. Kasi Prasad, Assoc. Professor	Member
50	4966	Dr. N. Prabakaran, Assoc. Professor	Member
51	5041	Dr. Vipul Agarwal, Assoc. Professor	Member
52	5148	Dr. Ipseeta Nanda, Assoc. Professor	Member
53	5288	Dr. S. A. Sivasankari, Assoc. Professor	Member
54	5395	Dr. S V. Aswin Kumer, Assoc. Professor	Member
55	5398	Dr. R. Revathi, Assoc. Professor	Member
56	5406	Dr. S. Rooban, Assoc. Professor	Member
57	5616	Dr. S. Arunmetha, Assoc. Professor	Member
58	5630	Dr. Shruti Suman, Assoc. Professor	Member
59	5759	Dr. Sourabh Upadhyay, Assoc. Professor	Member
60	5884	Dr. Arjuna muduli, Assoc. Professor	Member



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61	5921	Dr. Poorna Priya, Assoc. Professor	Member
62	2993	Dr. B. Suresh, Assoc. Professor	Member
63	4695	Dr. R. S. Ernest Ravindran, Assoc. Professor	Member
64	5381	Dr. C. Joshitha, Assoc. Professor	Member
65	5439	Dr. Chella Santhosh, Assoc. Professor	Member
66	5675	Dr. K. Praghash, Assoc. Professor	Member
67	5677	Dr. Biswajit Jena, Assoc. Professor	Member
68	5891	Dr. E. Kiran Kumar Assoc. Professor	Member
69	5927	Dr. Aravind Kilaru, Assoc. Professor	Member
70	5954	Dr. N Phalguni Singh, Assoc. Professor	Member
71	6365	Dr. Aravindhan Alagarsamy Assoc. Professor	Member
72	1286	Dr. S. Nagendram, Asst. Professor	Member
73	2045	Dr. K. Ravi Kumar Asst. Professor	Member
74	3726	Dr. P. Saleem Akram Asst. Professor	Member
76	4773	Dr. K. Girija Sravani Asst. Professor	Member
77	4975	Dr. G. Siva Vara Prasa, Asst. Professor	Member
78	5129	Dr. C. S. Preetham Reddy, Asst. Professor	Member
79	5137	Dr. B. John Philip Asst. Professor	Member
80	6027	Dr. Rahul Bosu Asst. Professor	Member
81	6224	Dr. Atul Kumar Asst. Professor	Member
82	6213	Dr. Naren Das, Asst. Professor	Member
83	6454	Dr. SK. Hasane Ahammad	Member



(Category -1, Deemed to be University estd, u/s, 3 of the UGC Act, 1956)

Accredited by NAAC as 'A++' Grade University & Approved by AICTE ISO 9001-2015 Certified Campus: Green Fields, Vaddeswaram - 522 592, Guntur District, Andhra Pradesh, INDIA.

Phone No. 0863 - 2399999; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38. Museum Road, Governorpet. Vijayawana = 520 002. Ph. +91 - 866 -2577715, Fax' +91-866-2577717

Department of Electronics and Communication Engineering

Board of Studies Meeting - 19

Time: 11AM

Venue: Online WebEx

07th Dec 2020

Minutes of the meeting

Agenda items:

1. Approval of changes in academic course structure for 20-21 admitted students.

Resolution/suggestions:

- It is resolved to approve the academic course structure of Y20 regulation.
- It is resolved to approve the changes in the course 19EC1213 basic electronic circuits as 20EC1213 Design of Basic Electronic Circuits with L-T-P-S of 3-0-0-0.
- It is resolved to approve the inclusion of Data Structures and Algorithms with L-T-P-S of 3-0-2-4 with course code of 20SC1202 in to the I-year second semester.
- It is resolved to approve the course 20SC1203 Object Oriented Programming with L-T-P-S of 2-0-4-0 in II Year second semester.

ANNEXURE-I

2. Suggestions and proposals B. Tech curriculum 2021-22.

Resolution/suggestions:

- The BOS chair called for industry collaborations/MoU's under each specialization. The industry connections are to enhance the curriculum through establishing center of excellence, syllabus upgradation, conducting faculty training programs, global certification courses and skilling courses, with a final objective of core placements.
- BOS chair, given the details of existing industry collaborations.
- External academic expert member suggested to have same curriculum for at least two academic years.
- 3. Discussion on industry connect & certificate courses offered under all specializations.

Resolution/suggestions:

• It is resolved to approve the proposed certificate courses/ value added courses under all specializations.

BOS Chair, ECE

Green Field Valdaswaram S
Guntur Dist., A.P. PIN: 522 502

Koneru Lakshmaiah Education Foundation

(Category -1, Deemed to be University estd. u/s 3 of the UGC Act, 1956)

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•	BOS chair, elaborated the value added courses and the plan of action and
	execution. Also the three level of certificate courses to guide the students
	towards employability/entrepreneurship/ career advancement.

• BOS chair have given the details of MoUs with National Instruments and Huawei for offering the certificate courses/value added courses.

ANNEXURE-II

4. Approval of new M. Tech specializations.

Resolution/suggestions:

- It is resolved to approve the list M. Tech programs offered under dept of ECE
 - M. Tech in VLSI & Microelectronics
 - M. Tech in Radar & Communication
 - M. Tech in IOT & Smart City Technologies
 - M. Tech in Robotics & Automation Electronics
 - M. Tech in Signal Processing with AI & ML
 - M. Tech in AI & DS for Electronic Communication Systems

Invitation for ECE Dept. Board of Studies Meeting (07-12-2020), KLEF. Reg

HOD-Department of Electronics and Communication Engineering < hod.ece@kluniversity.in > 5un 06-12-2020 09:27

To: Dr Vinay Kumar Mittal <drvkmittal@kluniversity.in>; Dr Koteswararao L . <koteswararao@kluniversityh.in>; Goutham M <mgoutham@klh.edu.in>; anil.vuppala@iiit.ac.in <anil.vuppala@iiit.ac.in>; kishorefr@gmail.com <kishorefr@gmail.com>; Advisor Student Affairs <habibulla@kluniversity.in>; Rajesh Vullanki <rajesh4444@kluniversity.in>; Sarat KK <kksarat@kluniversity.in>; Dr. ASCS Sastry <ascssastry@kluniversity.in>; Sri Kavya K Ch <kavya@kluniversity.in>; Dr.MVN <mvn@kluniversity.in>; Dr Madhukar DeshmukhESHMUKH <madhukar_aau@kluniversity.in>; Lakshman Pappula <lakshman.pappula@kluniversity.in>; Dr.I.Govardhani <govardhanee_ec@kluniversity.in>; M.S.G.Prasad <msivagangaprasad@kluniversity.in>; Dr.P.S.Srinivas Babu <satyasrinivas.p@kluniversity.in>; Dr.Penke Satyanarayana <satece@kluniversity.in>; P.V.V.Kishore <pvvkishore@kluniversity.in>; Sridhar Miriyala <sridhar.m@kluniversity.in>; S

Cc: PRESIDENT cresident@kluniversity.in>; Dr. LSS Reddy <drlssreddy@kluniversity.in>; N Venkat Ram
 <venkatram@kluniversity.in>; PRINCIPAL - COE <pri>principal.coe@kluniversity.in>; Registrar <registrar@kluniversity.in>;
Suman Maloji <suman.maloji@kluniversity.in>; Dr. K Rama Krishna, Dean(Quality) <drkrk@kluniversity.in>; Dr. V. Krishna
Reddy <vkrishnareddy@kluniversity.in>; Dr G.Krishna Kumari <krishnagannamaraju@kluniversity.in>; Dr Jagadeesh Anne
<drjagadeesh@kluniversity.in>; Raghuveervr <raghuveervr@kluniversity.in>; Office of Dean Academics
<academicsoffice@kluniversity.in>

2 attachments (104 KB)

Minutes of DAC Nov 2020-21.docx; Y20 ECE Semester structure 02-11-2020.xlsx;

Dear Sir/Madam,

Greetings of the Day.

Department of ECE, KLV & KLH are striving to evolve as globally renowned departments for imparting quality technical education for budding engineers, in line with university mission. We are focusing on modification of our curriculum biannually to cater to the contemporary industrial requirements and ratify these modifications through the department 'Board of studies (BOS)'.

I am very happy to inform you that by direction's of higher authorities ,Board of Studies (BOS) members are appointed as per the attachment.

It is our pleasure to invite you all for our BOS meeting on 07-12-20 (Monday) from 11 AM onward through WebEx platform and the details are given below

KLEF ECE: Board of Studies Meeting

https://kluniversity.webex.com/kluniversity/j.php?MTID=m60472aae4ba5478c28cf35edfc8a5639 Monday, Dec 7, 2020 11:00 am | 1 hour | (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi Meeting number: 158 634 4509

Password: jsMj7HnDh28

Reporting items:

- 1. Faculty achievements
- 2. Research activities
- 3. Placement status

Agenda items:

- 1. Approval of changes in academic course structure for 20-21 admitted students.
- 2. Suggestions and proposals B. Tech curriculum 2021-22.
- 3. Discussion on industry connect & certificate courses offered under all specializations.
- 4. Approval of new M. Tech specializations

DAC meetings and Y20 modified courses structure are attached for your kind perusal. Looking forward to your presence and valuable suggestions
Thank you,

With best regards

Dr. Suman Maloji M.Tech., Ph.D Professor and Head

Department of Electronics and Communication Engineering

(DST -FIST Sponsored Department)

Koneru Lakshmaiah Education Foundation

(Deemed to be University estd., u/s 3 of UGC Act 1956)

Green Fields, Vaddeswaram 522502. Guntur Dt., Andhra Pradesh, INDIA.

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http://www.kluniversity.in

Department of Electronics and Communication Engineering

Department Academic Committee Meeting

20th November 2020

Time: 3 PM

Online WebEx Meeting

Reporting items

- a. Faculty awards and recognitions
- b. Research activities in the department
- c. Placement status

Agenda Points:

- 1. Proposed changes in academic course structure of 20-21 admitted students.
- 2. Call for proposals B. Tech curriculum 2021-22.
- 3. Proposals and modifications for new and existing M. Tech programs.
- 4. Discussion on student and faculty feedback (Stake holder's feedback).
- 5. Approval of PG Diploma courses offered by ECE Department.
- 6. Certification courses offered under all specializations.

Minutes of the meeting

- 1. HOD has presented the faculty awards, various research activities conducted during the odd semester of AY 2020-21 and the current placement status.
- 2. All DAC members approved the course 20SC1202 Data Structure and Algorithms with L-T-P-S structure of 3-0-2-4, forwarded to BOS for approval.
- 3. Also the members approved to offered the course 20SC1203 Object Oriented Programming with L-T-P-S structure of 2-0-4-0 in II Year Even semester.
- 4. HOD called for proposals of new courses in all sub-streams as per the requirement of industry and thrust areas of electronics and communications.
- 5. All the DAC members approved the certification courses offered under all the substreams and forwarded to BOS for approval.
- 6. HOD called the Head coordinators of all the sub-streams to have a MoU with industries related to sub-streams.
- 7. Stake holder's feedback is discussed at length and the Dept. Chair suggested to implement new teaching pedagogies for effective course delivery.

Dr. M. SUMAN
Professor & Head
Departme Wor ECE
EMOD, ECE
Green Fields, Vaddeswaram
Guntur Dist., A.P. PIN: 522 502

Re: DAC Meeting at 3 PM on 20-11-2020, ECE Department -Reg.

HOD-Department of Electronics and Communication Engineering <hod.ece@kluniversity.in>

To: ECE Faculty <ecefaculty@kluniversity.in>; Goutham M <mgoutham@klh.edu.in>; Dr Koteswararao L

<koteswararao@kluniversityh.in>

Cc: Suman Maloji <suman.maloji@kluniversity.in>

A Gentle reminder for all DAC members.

Regards

Dr. Suman Maloji M.Tech., Ph.D. Professor and Head

Department of Electronics and Communication Engineering

(DST -FIST Sponsored Department)

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Office: +91-863-2399999 (Ext 1881), Fax: +91-863-2388999

http://www.kluniversity.in

From: HOD-Department of Electronics and Communication Engineering

Sent: 19 November 2020 16:58

To: ECE Faculty <ecefaculty@kluniversity.in>

Cc: Registrar < registrar@kluniversity.in>; PRINCIPAL - COE < principal.coe@kluniversity.in>; Raghuveervr

<raghuveervr@kluniversity.in>; Suman Maloji <suman.maloji@kluniversity.in>

Subject: DAC Meeting at 3 PM on 20-11-2020, ECE Department -Reg.

Dear faculty,

Good Evening to all.

DAC meeting is scheduled on **20-11-2020**, **3.00 PM**. The major agenda points and list of members constituted for DAC is detailed in the attachment.

We request all the DAC members to attend the meeting using below link

https://kluniversity.webex.com/kluniversity/j.php?MTID=m06e16ba07d49cf47b3a3068be765d96c

Meeting number: 158 345 3774

Password: Vn6QFV2G5J3

Thank you,

with best regards

Dr. Suman Maloji M.Tech., Ph.D Professor and Head

Department of Electronics and Communication Engineering

(DST -FIST Sponsored Department)

Koneru Lakshmaiah Education Foundation

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http://www.kluniversity.in

Date: 19-11-20.

DEPARTMENT OF ELECTRONICS AND CMMUNICATION ENGINEERING

CIRCULAR

The Department Academic Committee meeting will be conducted on 20-11-2020 at 03:00 P.M through WebEx.

Reporting items

- a. Faculty awards and recognitions
- b. Research activities in the department
- c. Placement status

Agenda Points:

- 1. Proposed changes in academic course structure of 20-21 admitted students.
- 2. Call for proposals B. Tech curriculum 2021-22.
- 3. Proposals and modifications for new and existing M. Tech programs.
- 4. Discussion on student and faculty feedback (Stake holders feedback).
- 5. Approval of PG Diploma courses offered by ECE Department.
- 6. Certification courses offered under all specializations.

The list of members constituted for DAC meeting is as follows

S. No	Emp. No	Name of the Faculty, Designation	Position
1	5924	Dr. Vinay kumar Mittal, Professor	Dept. chair
2	841	Dr. M. Suman, Professor & HOD	BOS Chair
3	731	Dr. M. Venkata Narayana, Professor & DyHOD	Member
4	5986	Dr. Madhukar Deshmukh, Professor & DyHOD	Member
5	4858	Dr. P. Lakshman, Assoc. Professor & DyHOD	Member
6	928	Dr. K. Ch. Sri Kavya, Professor	Member
7	11	Dr. Habibulla Khan, Professor & Dean(SA)	Member
8	4444	Dr. V. Rajesh, Professor & Dean (P&D)	Member
9	4769	Dr. V. S. V. Prabhakar, Professor & Director-IC	Member
10	855	Dr. I. Govardhani, Professor & RPAC Chair	Member
11	1712	Dr. K. S. Ramesh, Professor	Member
12	1737	Dr. B. T. P. Madhav, Professor & Assoc. Dean R&D	Member
13	2326	Dr. K. Sarat Kumar, Professor	Member
14	2457	Dr. K. Hari Kishore, Professor & Assoc. Dean SF	Member
15	2462	Dr. P. Satyanarayana, Professor	Member
16	2513	Dr. P. Satya Srinivas Babu, Professor	Member
17	2469	Dr. M. Sridhar, Professor	Member



KOWER AKSAWAAA EDUCATION FOUNDATION (Deemed to be University, Estd. u/s. 3 of UGC Act 1956)

18	2684	Dr. D. Venkata Ratnam, Professor	Member
19	2838	Dr. G. V. Subbarao, Professor & RPAC Chair	Member
20	2922	Dr. M. Venu Gopala Rao, Professor & Assoc. Dean IQAC	Member
21	3144	Dr. K. Kumar Naik, Professor	Member
22	3388	Dr. A. S. C. S. Sastry, Professor & COE	Member
23	3413	Dr. Md. Z Rehman, Professor	Member
24	3452	Dr. P. Venkat Vijay Kishore, Professor	Member
25	3621	Dr. P. Pardhasaradhi, Professor, I/C PG & Assoc. Dean R&D	Member
26	3843	Dr. S. Koteswararao, Professor	Member
27	3867	Dr. K. Srinivasarao, Professor	Member
28	4387	Dr. B. Polaiah, Professor	Member
29	6303	Dr. P. Satya Srinivas Babu, Professor	Member
30	1181	Dr. M. Ravi Kumar, Assoc. Professor	Member
31	1748	Dr. N.V.K.Ramesh, Assoc. Professor	Member
32	2221	Dr. B. Murali Krishna, Assoc. Professor	Member
33	2455	Dr. M. Siva Kumar, Assoc. Professor	Member
34	2456	Dr. Syed Inthiyaz, Assoc. Professor	Member
35	2488	Dr. Fazal Noorbasha, Assoc. Professor & Assoc. Dean AC	Member
36	2721	Dr. Nagesh Mantravadi, Assoc. Professor & Assoc. Dean IQAC	Member
37	2812	Dr. M. V. D. Prasad, Assoc. Professor	Member
38	2902	Dr. G. R. K. Prasad, Assoc. Professor & Assoc. Dean P&D	Member
39	2978	Dr. D. Bhavana, Assoc. Professor	Member
40	2982	Dr. C. Sreevardhan, Assoc.Professor	Member
41	2994	Dr. Ch. Raghava Prasad, Assoc. Professor	Member
42	3066	Dr. N. Siddaiah, Assoc. Professor	Member
43	3864	Dr. China Satyanarayana, Assoc. Professor	Member
44	4272	Dr. G. Sai Krishna Santosh, Assoc. Professor	Member
45	4291	Dr. S. Sunithamani, Assoc. Professor	Member
46	4608	Dr. Sampad Kumar Panda, Assoc. Professor	Member
47	4719	Dr. Y. Usha Devi, Assoc. Professor	Member
48	4950	Dr. Deepak Kumar Nayak, Assoc. Professor	Member
49	4958	Dr. M. Kasi Prasad, Assoc. Professor	Member
50	4966	Dr. N. Prabakaran, Assoc. Professor	Member
51	5041	Dr. Vipul Agarwal, Assoc. Professor	Member
52	5288	Dr. S. A. Sivasankari, Assoc. Professor	Member
53	5395	Dr. S V. Aswin Kumer, Assoc. Professor	Member
54	5398	Dr. R. Revathi, Assoc. Professor	Member
55	5406	Dr. S. Rooban, Assoc. Professor	Member
56	5616	Dr. S. Arunmetha, Assoc. Professor	Member
57	5630	Dr. Shruti Suman, Assoc. Professor	Member
58	5759	Dr. Sourabh Upadhyay, Assoc. Professor	Member



KONERU LAKSHWAIAH EDUCATION FOUNDATION (Deemed to be University, Estd. u/s. 3 of UGC Act 1956)

59	5884	Dr. Arjuna muduli, Assoc. Professor	Member
60	5921	Dr. Poorna Priya, Assoc. Professor	Member
61	2993	Dr. B. Suresh, Assoc. Professor	Member
62	4695	Dr. R. S. Ernest Ravindran, Assoc. Professor	Member
63	1286	Dr. S.Nagendram, Asst. Professor	Member
64	4975	Dr. G. Siva Vara Prasa, Asst. Professor	Member
65	5129	Dr. C. S. Preetham Reddy, Asst. Professor	Member
66	5137	Dr. B. John Philip	Member
67	5148	Dr. Ipseeta Nanda	Member
68	5381	Dr. C. Joshitha, Asst. Professor	Member
69	5439	Dr. Chella Santhosh, Asst. Professor	Member
70	5675	Dr. K. Praghash, Asst. Professor	Member
71	5677	Dr. Biswajit Jena, Asst. Professor	Member
72	5891	Dr. E. Kiran Kumar	Member
73	5927	Dr. Aravind Kilaru, Asst. Professor	Member
74	5954	Dr. N Phalguni Singh, Asst. Professor	Member
75	5934	Dr. S. S. S. Kalyan, Asst. Professor	Member
76	6213	Dr. Naren Das, Asst. Professor	Member



1 2	Course Code	Course Title	Uni/Sch/Dept	Type	L	T	P	S	Cr	CII	Pre-Reg.	Indepen
2	SWA MELLOT	SEMESTER-1	COLL CONE	150	2	a I	0	2 1	4.5	6	NIII	
	20MT1101	Mathematics for Computing	SCH CORE	BS	2	2	0)	2		_	NIL	
	20SCT101	Computational Thinking for Design	SCH CORE	ES	3	0.	2	6	5.5	-11	NIL	
3	20UC1101	INTEGRATED PROFESSIONAL ENGLISH	SCH CORE	HSS	-0	0	4	-0	2	4	NIL.	
4	20ME1103	Design Tools Workshop - I	SCH CORE	ES	0	0	4	0	2	4	NIL	
5	20EC1101	Digital Logic & Processors	UNI CORE	ES	3	0	2	0	-4	5	NIL	
		Total			9	2	12	12	18	35		
		SEMESTER-2				-						
1	19MT2102	Mathematics for Engineers	SCH CORE	BS	2	1	0	0	3	3	NII.	
2	20SC1202	Data Structures and Algorithms	SCH CORE	ES	3	0	7	-4	5	9	NIL	
3	20UC1202	English Proficiency	UNI CORE	HS	0	0	4	0	2	4	NIL	
4	19SC1209	Design Tools Workshop - II	SCH CORE	BS	0	0	4	0	2	4	NIL	
5	19EC1202	Computer Organization & Architecture	DEP CORE	ES	2	0	0	0	2	2	NII.	
6	20EC1213	DESIGN OF BASIC ELECTONIC CIRCUITS	SCH ELEC	ES	3	0	0	0	3	3	NIL	
	20UC1102	DESIGN OF BASIC LELECTONIC CIRCOTTS DESIGN THINKING AND INNOVATION-I	UNI CORE	BS	1	0	0	4	2	5	NIL	
7	20001102		UNICORE	D9.	11	V	01	8	19	30	14117	
	100	Total SUMMER			-11	1	10	0	19	30		
1		Social Internship	SCH ELEC	PR	0	0	0	8	2	8		
		SEMESTER-3										
1	19EC2103	Analog Electronic Circuit Design	DEP CORE	PC	3	0	2	2	4.5	7	NIL	
2	19EC2104	Communication Signals & System Design	DEP CORE	PC	3	1	0	0	4	4	NIL	
3	19EC2105	Analog and Digital Communication	DEP CORE	PC	3	0	3	0	4.5	6	NIL	
4	19EC2105	Embedded Controllers	DEP CORE	PC	2	0	3	2	4	7	NIL	
				ES	1	0	2	2	2,5	5	NIL	
5	20EC2111	ELECTRONIC SYS'TEM DESIGN WORKSHOP	SCH ELEC		-	-			-			
7	20UC1203	DESIGN THINKING AND INNOVATION-II	SCH ELEC	ES	I	0	0	4	2	5	NIL	
8	20EC2112	IT WORKSHOP	SCH ELEC	ES	1	0	_ 2	0	2	3	NIL	
		Total	I	No.	14	1	12	10	23.5	37		
35		SEMESTER-4	9				- U					
1	19EC2207	Electromagnetic fields & Applications	DEP CORE	PC	3	1	0	0	4	4	NIL	
2	19EC2208	Digital Signal Processing	DEP CORE	PC	3	0	2	0	4	5	NIL	
	20EC2209A	Statistics, AI, ANN	DEP CORE	PC	3	0	0	2	3_5	5	NIL	
3	20EC2209	AI & ANN Tools and Applications	DEP CORE	PC	3	0	0	0			NIL	
4	19EC2210	Data Networks & Protocols	DEP CORE	PC	3	0	2	0	4	5	NIL	
					_	_				5	NIL	_
5	20EC2214	IOT Workshop	SCH ELEC	ES	1	0	0	4	2			
6	20UC2103	Professional Communication Skills	UNI CORE	HS	0	0	4	0	2	4	NIL	
7		Professional Elective-1	DEP ELEC	PE	3	0	0	0	3	3	NIL	
8	20SC1203	Object Oriented Programming	SCH CORE	ES	2	0	4	0	. 4	6	NIL	
AV D		Total			18	1	12	- 6	26.5	37		
		SEMESTER-5										
1		Science Elective-1	SCH ELEC	BS	3	0	2	0	4	5	NIL	
2		Flexi Core-1	FLEXI CORE	FC	3	0	2	0	4	5	NIL	
3		Flexi Core-2	FLEXI CORE	FC	3	0	2	0	4	5	NIL	
			DEP ELEC	_	3	0	0	0	3	3	NIL	-
4		Professional Elective-2		PE		-	_		_			
5		Professional Elective-3	DEP ELEC	PE	3	0	0	0	3	3	NIL	
6	20UC2204	CORPORATE COMMUNICATION SKILLS	UNI CORE	HS	0	0	4	0	2	4	NIL	
7		Open Elective-1 (Advanced Learners)	UNI CORE	OE	3	0	0	0			NIL	
8	20TS3101	Technical Proficiency / Entrepreneurial Incubation	SCH ELEC	SK	0	0	0	12	3	6	NIL	6
9	20IE3050	Technical Internship	SCH ELEC	PR	0	0	0	8	2		NIL	
10	201E3150	MIDGRADE CAPSTONE PROJECT 1	SCH ELEC	PR	0	0	0	8	2	4		4
			SCH CORE	BS	1	0	0	4	2	5	NIII	
11	20UC2104	USER CENTRIC DESIGN TECHNIQUES		DO	1	-	10	32				
			T GOTT GOTTE		114961					7.445	NIL	
W) In		Total SEMESTED 6	31,000	NI NI	19	0	10	34	29	40	NIL	
		SEMESTER-6		BS	19	0	2	0	4	40	NIL	
1		SEMESTER-6 Science Elective-2	SCH CORE	BS	3	0	2	0	4	5	NIL	
1 2		Science Elective-2 Flexi Core-3	SCH CORE FLEXI CORE	FC	3	0	2 2	0	4 4	5		
1 2 3		Science Elective-2 Flexi Core-3 Professional Elective-4	SCH CORE FLEXI CORE DEP ELEC	FC PE	3 3 3	0 0	2 2 0	0 0	4 4 3	5 5 3	NIL	
1 2 3 4		Science Elective-2 Flexi Core-3 Professional Elective-4 Professional Elective-5	SCH CORE FLEXI CORE DEP ELEC DEP ELEC	FC PE PE	3 3 3	0 0 0	2 2 0	0 0 0	4 4 3 3 3	5 5 3 3	NIL NIL	
1 2 3 4 5		Science Elective-2 Flexi Core-3 Professional Elective-4 Professional Elective-5 Professional Elective-6	SCH CORE FLEXI CORE DEP ELEC DEP ELEC DEP ELEC	FC PE PE PE	3 3 3 3 3	0 0 0 0	2 2 0 0	0 0 0 0	4 4 3 3 3 3	5 5 3 3 3	NIL NIL NIL	
1 2 3 4 5		SEMESTER-6 Science Elective-2 Flexi Core-3 Professional Elective-4 Professional Elective-5 Professional Elective-6 Design Studio Elective	SCH CORE FLEXI CORE DEP ELEC DEP ELEC DEP ELEC SCH CORE	FC PE PE PE PR	3 3 3 3 3 0	0 0 0 0	2 2 0 0 0	0 0 0 0 0 0	4 4 3 3 3 2.5	5 5 3 3 3	NIL NIL NIL	
1 2 3 4 5 6	20UC3205	Science Elective-2 Flexi Core-3 Professional Elective-4 Professional Elective-5 Professional Elective-6	SCH CORE FLEXI CORE DEP ELEC DEP ELEC DEP ELEC	FC PE PE PE	3 3 3 3 3	0 0 0 0	2 2 0 0	0 0 0 0	4 4 3 3 3 3	5 5 3 3 3 10 4	NIL NIL NIL	
1 2 3 4 5 6 6 6		SEMESTER-6 Science Elective-2 Flexi Core-3 Professional Elective-4 Professional Elective-5 Professional Elective-6 Design Studio Elective	SCH CORE FLEXI CORE DEP ELEC DEP ELEC DEP ELEC SCH CORE	FC PE PE PE PR	3 3 3 3 3 0	0 0 0 0	2 2 0 0 0	0 0 0 0 0 0	4 4 3 3 3 2.5	5 5 3 3 3	NIL NIL NIL	6
1 2 3 4 5 6 6 7 7	20UC3205 20IE3250 20TS3202	Science Elective-2 Flexi Core-3 Professional Elective-4 Professional Elective-5 Professional Elective-6 Design Studio Elective Aptitute Builder	SCH CORE FLEXI CORE DEP ELEC DEP ELEC DEP ELEC SCH CORE UNI CORE	FC PE PE PE PR HS	3 3 3 3 0 0	0 0 0 0 0	2 2 0 0 0 0	0 0 0 0 0 0	4 4 3 3 3 2.5 2	5 5 3 3 3 10 4	NIL NIL NIL NIL	
1 2 3 4 5 6 6 7	20IE3250	SEMESTER-6 Science Elective-2 Flexi Core-3 Professional Elective-4 Professional Elective-5 Professional Elective-6 Design Studio Elective Aptitute Builder MIDGRADE CAPSTONE PROJECT 2	SCH CORE FLEXI CORE DEP ELEC DEP ELEC DEP ELEC SCH CORE UNI CORE SCH ELEC	FC PE PE PE PR HS PR	3 3 3 3 3 0 0	0 0 0 0 0 0	2 2 0 0 0 0 0 4	0 0 0 0 0 0 10	4 4 3 3 3 2.5 2	5 5 3 3 3 10 4 2	NIL NIL NIL NIL NIL	6 8
1 2 3 4 5 6 6 7 8	20IE3250	SEMESTER-6 Science Elective-2 Flexi Core-3 Professional Elective-4 Professional Elective-5 Professional Elective-6 Design Studio Elective Aptitute Builder MIDGRADE CAPSTONE PROJECT 2 Technical Proficiency / Technopreneurship	SCH CORE FLEXI CORE DEP ELEC DEP ELEC DEP ELEC SCH CORE UNI CORE SCH ELEC	FC PE PE PE PR HS PR	3 3 3 3 0 0	0 0 0 0 0 0 0	2 2 0 0 0 0 0 4 0	0 0 0 0 0 0 10 0 8	4 4 3 3 3 2.5 2 2	5 5 3 3 3 10 4 2	NIL NIL NIL NIL NIL	+
1 2 3 4 5 6 6 6 7 8	20IE3250	SEMESTER - 6 Science Elective-2 Flexi Core-3 Professional Elective-4 Professional Elective-5 Professional Elective-6 Design Studio Elective Aptitule Builder MIDGRADE CAPSTONE PROJECT 2 Technical Proficiency / Technopreneurship Total	SCH CORE FLEXI CORE DEP ELEC DEP ELEC DEP ELEC SCH CORE UNI CORE SCH ELEC	FC PE PE PE PR HS PR	3 3 3 3 0 0	0 0 0 0 0 0 0	2 2 0 0 0 0 0 4 0	0 0 0 0 0 0 10 0 8	4 4 3 3 3 2.5 2 2	5 5 3 3 3 10 4 2	NIL NIL NIL NIL NIL	+
1 2 3 4 5 6 6 6 7 8 1	20IE3250	SEMESTER-6 Science Elective-2 Flexi Core-3 Professional Elective-4 Professional Elective-5 Professional Elective-6 Design Studio Elective Aptitute Builder MIDGRADE CAPSTONE PROJECT 2 Technical Proficiency / Technopreneurship Fotal SEMESTER-7 Open Elective-1	SCH CORE FLEXI CORE DEP ELEC DEP ELEC DEP ELEC SCH CORE UNI CORE SCH ELEC SCH ELEC	FC PE PE PE PR HS PR SK	3 3 3 3 0 0 0 0	0 0 0 0 0 0 0	2 2 0 0 0 0 4 0 0	0 0 0 0 0 10 0 8 12	4 4 3 3 3 2.5 2 2 2 3 26.5	5 5 3 3 3 10 4 2 4	NIL	+
1 2 3 4 5 6 6 7 8	201E3250 20TS3202	SEMESTER-6 Science Elective-2 Flexi Core-3 Professional Elective-4 Professional Elective-5 Professional Elective-6 Design Studio Elective Aptitule Builder MIDGRADE CAPSTONE PROJECT 2 Technical Proficiency / Technopreneurship Total SEMESTER-7 Open Elective-1 Open Elective-2	SCH CORE FLEXI CORE DEP ELEC DEP ELEC SCH CORE UNI CORE SCH ELEC SCH ELEC UNI ELEC	FC PE PE PE PR HS PR SK OE OE	3 3 3 3 0 0 0 0 0	0 0 0 0 0 0 0 0 0	2 2 0 0 0 0 0 4 0 0 8	0 0 0 0 0 10 0 8 12 30	4 4 3 3 3 2.5 2 2 2 3 26.5	5 5 3 3 3 10 4 2 4 39	NIL	+
1 2 3 4 5 6 6 6 7 8 1 2 3 3	20IE3250 20TS3202 20UC0007	SEMESTER-6 Science Elective-2 Flexi Core-3 Professional Elective-4 Professional Elective-5 Professional Elective-6 Design Studio Elective Aptitute Builder MIDGRADE CAPSTONE PROJECT 2 Technical Proficiency / Technopreneurship Total SEMESTER-7 Open Elective-1 Open Elective-2 Indian Heritage and Culture	SCH CORE FLEXI CORE DEP ELEC DEP ELEC SCH CORE UNI CORE SCH ELEC SCH ELEC UNI ELEC UNI ELEC UNI ELEC UNI ELEC UNI CORE	FC PE PE PE PR HS PR SK OE OE	3 3 3 3 0 0 0 0 0 15	0 0 0 0 0 0 0 0 0	2 2 0 0 0 0 4 0 0 8	0 0 0 0 0 10 0 8 12 30	4 4 3 3 3 2.5 2 2 2 3 26.5	5 5 3 3 3 10 4 2 4 39	NIL	+
1 2 3 4 5 6 6 6 7 8 1 2 3 4 4	20IE3250 20TS3202 20UC0007 20UC0008	SEMESTER-6 Science Elective-2 Flexi Core-3 Professional Elective-4 Professional Elective-5 Professional Elective-6 Design Studio Elective Aptitute Builder MIDGRADE CAPSTONE PROJECT 2 Technical Proficiency / Technopreneurship Total SEMESTER-7 Open Elective-1 Open Elective-2 Indian Heritage and Culture Indian Constitution	SCH CORE FLEXI CORE DEP ELEC DEP ELEC SCH CORE UNI CORE SCH ELEC SCH ELEC UNI ELEC UNI ELEC UNI ELEC UNI ELEC UNI CORE	FC PE PE PE PR HS PR SK OE OE HS	3 3 3 3 3 0 0 0 0 0 15	0 0 0 0 0 0 0 0 0 0	2 2 0 0 0 0 4 0 0 8	0 0 0 0 0 10 0 8 12 30	4 4 3 3 3 2.5 2 2 3 26.5	5 5 3 3 3 10 4 2 4 39	NIL	+
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3	200/02/103	PROFESSIONAL COMMUNICATION SKILLS	(0	11	1	1)	2	NIL	B1, CE, USE, LCE, COM ENGG, EEE, ME AL& DS, US & 11	2
5	20UC2284 20UC3005	CORPORATE COMMUNICATION SKILLS APTITUDE BUILDER	0	0	-	-	2	NII.	BT CE, CSE ECE, COM ENGG, EEE, ME AL& DS, CS & TE BT, CE, CSE, ECE, COM ENGG, EEE, ME AL& DS, CS & TE	2
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7	20UC0007 20UC0008	Indian Heritage and Culture	2	0		0	0	NII.	BT CE CSE ECE COMENGG FEE MEAL& DS CS & IT BT CE CSE ECE COMENGG FEE MEAL& DS CS & IT	0
9	20UC0009	Indian Constitution Ecology & Environment	2			0	0	NIL	BT CE CSE ECE COMENGG EEE, ME AL& DS, CS & II	.0
10	20UC0010	Universal Human Values & Professional Ethics				0		NIL:	BT, CF, CSE, ECE, COMENGG, EEE, ME AL& DS, CS & TE BT, CE, CSE, ECE, COMENGG, EEE, ME AL& DS, CS & TE	- 0
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73	20SC1102	DESIGN THINKING AND INNOVATION-I	1			4	2	NII	BT CE, CSE ECE, COM ENGO THE ME AL& DS CS & 11	2
4	20SC1203 20SC2104	DESIGN THINKING AND INNOVATION-2 USER CENTRIC DESIGN TECHNIQUES		0	0	4	2	NIL.	BT, CE, CSE, ECE, COM ENGO, EEE, ME AL& DS, CS & IT BT, CE, CSE, ECE, COM ENGG, EEE, ME AL& DS, CS & IT	2
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111	20SC1101	ENGINEERING SCIENCES COMPUTATIONAL THINKING FOR DESIGN	.3	0	2	6	5.5	NIL	HT, CE, CNE, ECE, COM INGG, EEE, MEAL& DS, CS& IT	5.5
2	200/01/1003	DESIGN TOOLS WORKSHOP - I	0	0	4	0	2	NIL	BT, CE, CSE, ECE, COM ENGG, EEE, ME, AL& DS, CS & TE	2
3	19SC1202	DATA STRUCTURES DESIGN TOOLS WORKSHOP - II	0	0			4.75	NIL	BT, CE, CSE, ECE, COMENGO, EEE, ME AL& DS, CS & IT BT, CE, CSE, ECE, COMENGO, EEE, ME AL& DS, CS & IT	4.75
5	20SC2205	DESIGN THROUGH VISUAL PROGRAMMING	-1	.0	0	4	2	NIL.	BT, CE, CSE, ECE, COM, ENGG, EEE, AL& DS, CS & IT	
7	19SC1203 20EC1101	OBJECT ORIENTED PROGRAMMING DIGITAL LOGIC & PROCESSORS	3	0		3	4.75	NIL	BT, CE,CSE, ECE, COM ENGG, EEE, AL& DS, CS & IT AI&DS,CSE COM ENGG, CS&IT,ECE,EFE	4.75
×	19EC1202	COMPUTER ORGANIZATION & ARCHITECTURE	2	.0	0	0	2	20EC1101	CSE, ECM, ECE, HER	2
9	20EC1213 20EC2111	DESIGN of BASIC ELECTONIC CIRCUITS BLECTRONIC SYSTEM DESIGN WORKSHOP	3	0		2		NII.	ECE,COMENGG ECE,COMENGG	2.5
11	20EC2214	IOT Design Workshop	1	0	0	4	2	NIL	HCE	2
12	20EC2112	IT Werkshop. Total Cree		0.1	2	0	1 2	NII.	ECE	34.5
		PROFESSIONAL CORE COURSES	T		Г	I				
1 2	19EC2103	ANALOG ELECTRONIC CIRCUIT DESIGN COMMUNICATION SIGNALS & SYSTEM DESIGN	-3	0		0	4.5	NIL	ECE, ECM, EEE ECE	4.5
3	19EC2105	ANALOG AND DIGITAL COMMUNICATION	3	0	3	0	4.5	NII.	ECH	4.5
5	19EC2106 19EC2207	EMBEDDED CONTROLLERS ELECTROMAGNETIC FIELDS & APPLICATIONS	3	0		0	4	NIL.	ECE, ECM, EEE	4
6	19EC2208	DIGITAL SIGNAL PROCESSING	1			0	4	NII.	ECE	4
7 8	20EC2209A 20EC2209	STATISTICS, AL & ANN AL ANY TOOLS AND APPLICATIONS	3	0		0	3.5	NII.	ECE ECE	3.5
9	19EC2210	DATA NETWORKS AND PROTOCOLS	3.		2		4	NII.	ECE	4
		SKILLING COURSES Total Cree	tits			-		r		32:5
1	20TS3101	Technical Proficiency / Entrepreneurial Incubation				12		NII.	BT, CE, CSE, ECE, COM ENGG, EEE, ME AL& DS, CS & 17,	3
3	20TS3202 20TS4103	Technical Proficiency / Technopementalup Technical Proficiency / Entrepreneural Skilling		0		12		NIL	BT, CE, CSE, ECE, COM ENGG, EEE, ME, AL& DS, CS & IT, BT, CE, CSE, ECE, COM ENGG, EEE, ME, AL& DS, CS & IT,	0
:4	20TS4204	Technical Proficiency / Entrepreneund Skilling	0			12		NIL	BT, CR, CSE, ECE, COM ENGG, EEE, ME,AL& DS, CS & TT,	0
TERM	PAPER & PI	Total Cree	lits		-	Т				6
SNO	COURSE	COURSE NAME	L	т	P	S	RED	TS	OFFERED TO	
	201E2050	Social Internship	0	0	0	×	2	NIL.	BT, CE, CSE, ECE, COM/ENGG, EEE, ME,AL& DS, CS & TI	2
2	20H3050	Technical Internahip	0	0	0	- 8	2	NIL	BT, CE, CSE, ECE, COM ENGO, EEE, ME, AL& DS, CS & TT	2
3	20HE3150	Design Studio Elective MIDGRADE CAPSTONE PROJECT 1	0			10		NIL NIL	BT, CE, CSE, ECE, COM ENGG, EEE, ME, AL& DS, CS & IT BT, CE, CSE, ECE, COM ENGG, REE, ME, AL& DS, CS & IT	2.5
-5	201E3250	MIDGRADE CAPSTONE PROJECT 2	0	0	0	8	- 2	NII.	BT, CE, CSE, ECE, COM ENGG, EEE, ME AL& DS, CS & TI	2
6 7	20fE4250	CAPSTONE PROJECT 1 CAPSTONE PROJECT 2	0			24		NII.	BT, CE, CSE, ECE, COM ENGG, EEE, ME, AL& DS, CS & IT BT, CE, CSE, ECE, COM ENGG, EEE, ME, AL& DS, CS & TF	6
X-	19HE4050	PRACTICE SCHOOL	0	0	0	24	- 6	SIL	BT, CE, CSE, ECE, COM ENGO, EEE, ME, AL& DS, CS & TT	
9	19IE4051	INTERNSHIP Total Cre-		10	1.0	24	6	NII	BT, CE, CSE, ECF, COM ENGO, EEE, ME, AI & DS, CS & IT	22.5
FLEX	I-CORE			,	_	F			DE CD CDE POP POV 1990 A 19 PO	
2	FC-1 FC-2	FLEXI-CORE-1 FLEXI-CORE-2	F	H	H	1	4		BT, CE, CSE, ECE, ECM, EEE, ME,PE BT, CE, CSE, ECE, ECM, EEE, ME,PE	4
3	FC-3	PLEXI-CORE-3					4		BT, CE, CSE, ECE, ECM, EEE, ME, PE	4
OPEN	FLECTIVES	Total Cre	2113		100	T	Î	7		12
1	OE-1	OPEN ELECTIVE-1				0		NII.	BT, CE, CSE, ECE, ECM, EEE, ME,PE	3
2	OE-2	OPEN ELECTIVE-2 Total Cres		1.0	1.0	0	3	NII.	BT, CE, CSE, ECE, ECM, EEE, ME, PE	3
	ESSIONAL E	LECTIVES	_	-	-	Г			THE COLUMN THE PART OF A STORY AND THE	
2	PE-1 PE-2	PROFESSIONAL ELECTIVE-1 PROFESSIONAL ELECTIVE-2	H	1	+	1	3		BT, CE, CSE, ECE, ECM, EEE, ME, PE BT, CE, CSE, ECE, ECM, EEE, ME, PE	3
3	14E-3	PROFESSIONAL ELECTIVE-3	F	F	F	F	3		BT, CF, CSE, ECE, ECM, EEE, ME, PE	3
5	PE-4 PE-5	PROFESSIONAL ELECTIVE 4 PROFESSIONAL ELECTIVE-5	f	-	+	+	3		BT, CE, CSE, ECE, ECM, EEE, ME,PE BT, CE, CSE, ECE, ECM, HEE, ME,PE	3
6	PE-6	PROFESSIONAL ELECTIVE 6 Total Gro	100		L	L	3	1	ECE	3
		MANAGEMENT ELECTIVES	att		-	T		Í		- 18
		Modeling Harmess Systems	13	10	0	0	- 2		BT, CE, CSE, ECE, COM ENGG, EEE, ME AL& DS, CS & TT	2
1							2			
1 2		Entrepreneurship Essentials Total Cre	2			0	2		BT, CE, CSE, ECE, COM ENGG, EEE, ME, AL& DS, CS & IT	2

1.4.1	F	EEDBACK ANALYSIS AND ACTION TAKEN REPORT		2012-13
41-114			 C . I	31475.73

S.No	Recommendations	Action taken	Name of the Programme	Department
1. Stude	Instead of conducting exam, real time learning by field	a. Two courses titled Design Thinking & Innovation -1 , Design Thinking & Innovation -2 are added to the curriculam for 2019- 20 & 2020-21 batch students, b, Design Thinking and Innovation Lab is established	B.Tech - ECE	Electronies and Communication Engineering
2	Need more practical approach	More contact hours are assigned to lab and skilling components to all core courses, more contact hours to skilling and the same has been reflected in course structure	B _s Tech - ECE	Electronics and Communication Engineering
3	Coding must be included in six semester	Technical skilling courses are offered in ever semester till semester-7, as mentioned in the course structure.	B.Tech - ECE	Electronics and Communication Engineering
4	Keeping all core subjects like control systems, embeded systes in 4th year is not good as the students are busy with placement and gate.	The course structure is planned such way that all the core courses will be complete by the end of semester- 4_{\odot}	B.Tech - ECE	Electronics and Communication Engineering
5		We are offered three specializations Cyber security, UX design, AL&MI from CSE department.	B.Tech - ECE	Electronics and Communication Engineering
6	There should be subjects related to real life application are needed.	All flexi core courses are design based on the real life applications, Ex: Biomedical Electronics & IOT for Healthcare	B _e Tech - ECE	Electronics and Communication Engineering
7	Practicals should be more related to real life applications.	Design/project based lab are designed and conducted,	B.Tech - ECE	Electronics and Communication Engineering
8	Need more in-depth concepts and interlinking of all concepts learnt in previous semesters.	New courses are offered under nine specializations with an emphasis on current technologies and thrust areas with a pre- requsite knowledge of core courses,	B.Tech - ECE	Electronics and Communication Engineering
2. Parer	its		1	In the second
1	Hands on experience should be provided for the students.	More hours are alloted for practicles and skilling components in the courses structure.	B_Tech - ECE	Electronics and Communication Engineering
2	Curriculum should be modified by adding the advanced concepts related to industry.	New specialization are introduced as per the requirement of industry and the following are the list of sub-streams newly added ESS1: IOTS & Smart Cities ESS3: Robotics & Automation ESS5: Wireless Communication ESS6: Data Networks ESS7: RF & Microwave ESS8: Data Computing ESS9: Biomedical Instrumentation	B.Tech - ECE	Electronics and Communication Engineering
3. Alumni				Im
1	New courses on automation can be included.	A new course in the VLSI automation is included in the VLSI substream.	B.Tech - ECE	Electronics and Communication Engineering
2	Skilling courses on tools required for industry can be included.	Skilling courses are offered based on the specializations.	B.Tech - ECE	Electronics and Communication Engineering
4. Faculty				
1	Information Theory and Coding 1. Theory of source coding and channel coding is covered but should be taught more in algorithmic perspective 2. CO1,2 covered source coding and CO3,4 covered channel coding, regarding the overall data communication from source symbol to data bits generated after channel coding should be illustrated in depth 3. ECE students and also communication stream students of CSE 4. No lab component 5. Lab component also to be added	Lab components not assigned to professional elective courses. Necessary changes to the coures will be considered for next BOS.	B.Tech - ECE	Electronics and Communication Engineering
2	4G WIRELESS TECHNOLOGIES AND CELLULAR COMMUNICATIONS 1. To meet industry requirement some more topics should be added 2. Some topics are not in a particular sequence 3. For CSE this subject is bit advanced, a lab/skilling on models would have helped them.	Lab components not assigned to professional elective courses. Necessary changes to the course will be considered for next BOS.	B.Tech - ECE	Electronics and Communication Engineering
3	INTRODUCTION TO AI &ANN AND TOOLS & APPLICATIONS 1. IF POSSIBLE , WE CAN INCLUDE THE LAB COMPONENTS	Skilling component is added to the advanced version of the	B.Tech - ECE	Electronics and Communication Engineering
5. Acader	nic Peers			Ela atuo: !
1	Suggested to have course on Deep Learning with AI as elective course for M. Tech programs.	Deep learning with artificial intelligence is included as an elecive of both M. Tech VLSI and M. Tech RC	B.Tech - ECE	Electronics and Communication Engineering
2	Suggested to have Machine Learning or Artificial Intelligence as common elective courses for M. Tech programs.		B,Tech - ECE	Electronics and Communication Engineering
6. Industr		New professional electives Bio-medical image analysis, Bio-		Electronics and
1		medical signal processing couses are offered under signal processing specialization. New professional electives are offered under specializations.	B.Tech - ECE	Communication Engineering
2	Courses on current thrust areas like automation, IOT and 5G communications can be offered	IOT & Smart Cities, Data Communications and Robotics and Automation.		Electronics and Communication Engineering

Koneru Lakshmaiah Education Foundation Department of Electronics and Communication Engineering

			Certificate courses list	st						
					MoU	Training Fee	Fee		Certification	
Sno	Specialization	Course Title	Category	Institute/Industry	with	Payable to company with	Payable	Total	Certification	Total
		A			Industr		to KL	(Inc.Tax)	(Inc. of Tax)	
П		NI CLAD	Employability,	National Ins.(NI)		800	700	1500	2000+GST 18%	3860
		· · · · · · · · · · · · · · · · · · ·	Career,		YFS					
			Entrepreneurshiip	· ·	2					
2	TOI	loT using Raspberry Pi	Employability	NIELIT	ΙΞΝ	NA	NA	NA	1000	1000
8		ure IoT Developer Specialty	Career	Microsoft	Ni	NA	NA	NA	12000	12000
4		CDAC-Certificate course in loT	Entrepreneurship	CDAC	Nil	NA	NA	ΝΑ	25000	25000
5		IOT Analytics & Data Sciences	Employability	Entuple	Nii	2339+18% tax=276d 1000		3760	1250+GST 18%	3760
9		Machine Learning	Employability	Entuple	Nil	2678+18% tax=3160 1000	1000	4160		5635
7			Employability,	National Ins.(NI)		800	700	1500	2000+GST 18% 3860	3860
			Career,		VES					
	Renewable Energy and Smart Cities		Entrepreneurshiip		3					
∞		Smart Cities – Management of Smart Urban Infrastructures	Employability	Edx	YES	NA	NA	AN	3604	3604
6		NICLAD	Employability,	National Ins.(NI)		800	700	1500	2000+GST 18% 3860	3860
			Career,		VES					
	9	×	Entrepreneurshiip		3					
10		Verification using system verilog	Employability	Entuple	Nil	2136+18% tax =252 1000	1000	3520	1250+GST 18%	3520
11		Fundamentals of UVM	Employability,	Entuple	Ē	2542+18% tax = 300 1000	1000	4000		5475
		*7	Career							
12		Synthesis and Timing analysis	Employability	Entuple	Ē	2271+18% tax = 268 1000	1000	3680	1250+GST 18%	3680
13		nc	Employability,	Entuple	Ξ	2678+18% tax = 316 1000	1000	4160		5635
	ISTA		Entrepreneurshiip							
14		CMOS Analog Circuit & Layout Design	Employability	Entuple	Ē	2203+18% tax = 260 1000		3600	1250+GST 18% 3600	3600

	Electronic circuit & Analog Layout Design	Employability, Entrepreneurshiip	Entuple	 Z	2475+18% tax = 292 1000	1000	3920		5395
	CMOS Digital VLSI Design	Employability, Entrepreneurshiip	NPTEL	Ξ	NA	N A	NA	1500	1500
	Microelectronics: Devices to Circuits	Employability	NPTEL	Ë	NA	A N	NA	1500	1500
	Learn Six Sigma	Entrepreneurship	Simplilearn	YES	NA	ΑN	NA	6500	6500
	NICLAD	Employability,	National Ins.(NI)		800	700	1500	2000+GST 18%	3860
		Career,		V I					
		Entrepreneurshiip		2					
-	Real world Robotic Operating Systems	Employability	Edx	YES	NA	AN	NA A	3678	3678
Robotics &	RPA, AI, and Cognitive Tech for Leaders	Employability	Linkedin	Ē	NA	NA	AN	1357	1357
Automation	zation - Mathworks	Emp	Mathworks	Ξ	ΝΑ	NA	NA	3000	3000
	Artificial Intelligence Engineer	Employability	Simplilearn	YES	NA	NA	NA	9059	6500
	gl	Career	Edx		AN	AN	NA	3667	3667
		Entrepreneurship	Simplilearn	YES	NA	NA	NA	6500	6500
	NICLAD	Employability,	National Ins.(NI)		800	200	1500	2000+GST 18%	3860
		Career, Entrepreneurshiip		YES					
Signal Processing	MATLAB for data processing and visualization - Mathworks - Employability	- Employability	Mathworks	Ē	NA	A N	₹ V	3000	3000
	Analyzing Data with Python	Employability	Edx	YES	NA	NA	AN	2800	2800
	Machine Learning using python	Employability	NIELIT		NA	NA	NA	1000	1000
	Data Science Tools	Career	Edx	YES	NA	NA	NA	2800	2800
	Foundations of data science	Career	PADHAI	ΙΪΝ	NA	NA	NA	1180	1180
	NICLAD	Employability,	National Ins.(NI)		800	700	1500	2000+GST 18%	3860
		Career,		YES					
		Entrepreneurshiip							
	RF Systems-Modelling, Design and Simulation	Employability	Entuple	III	2000+18% =2360	1000	3360	1250+GST 18% 3360	3360
	Fabrication, Testing and Validation	Employability	Entuple	Nil	2678+18% = 3160	1000	4160		5635
KF & Microwave	RE and Antenna Decion	Employability	NPTEL	Nil	NA	NA	NA	1500	1500

1500		3860	1500	1500	1500	3860	12000	7300	10000		1500	1500	1500	1500
1500	1500	2000+GST 18%	1500	NA	NA	2000+GST 18%	12000	7300	10000	2000+GST 18%	1500	1500	1500	1500
∀ Z	NA	1500	NA	1500	1500	1500	NA	NA	NA	1500	N A	N A	A N	NA
∀ Z	NA	700	NA	AN	N A	700	A A	NA	NA	700	NA	NA	₹ Z	AN N
	NA	800	NA	NA	NA	008	NA NA	NA	NA	800	S NA	S NA	NA	NA S
Ē	Ë	YES	Ē	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
NPTEL	NPTEL	National Ins.(NI)	NPTEL	HUWAI	HUWAI	National Ins.(NI)	Edx	Edx	Edx	National Ins.(NI)	HUWAI	HUWAI	HUWAI	HUWAI
Employability, Career, Entrepreneurshiip	Entrepreurship	Employability, Career, Entrepreneurshiip	Employability	Career	Employability, Entrepreneurshiip	Employability, Career, Entrepreneurshiip	Employability	Career	Career	Employability, Career, Entrepreneurshiip	Employability, Career	Employability, Career	Employability, Entrepreneurshiip	Employability, Entrepreneurshiip
Design Principles of RF and Microwave Filters and Amplifiers	RF Integrated Circuits	NICLAD	Introduction to Wireless and Cellular Communications	HCIA-5G	End-to-End 5G Associate	NICLAD	Fundamentals of Biomedical Imaging: Ultrasounds, X-ray, positron emission tomography (PET) and applications	Findamentals of Neuroscience	Introduction to Bioconductor	NICLAD	HCIA-R&S	DATA SCIENCE - Airtificial Intelligence	Data networks and proctocls - Routing and Switching	ANN, CNN, AI -
			Data	Communications			Bio-Medical Instrumentations					Artificial		
36	37	38	39	40	41	42	43	77	¥ 4	46	47	48	49	50

3860	8670	3860	1500	1500	1500	1500	3860	7400	8580
2000+GST 18% 3860	FREE	2000+GST 18%	NA	NA	NA	NA	2000+GST 18% 3860	5000+GST 18% 7400	6000+GST 18%
1500	8670	1500	1500	1500	1500	1500	1500	1500	1500
۷ ۷	1000	NA	NA	AN	NA .	NA	700	700	700
NA	6500 +18% =7670	NA	NA	NA	۷ ۷	NA	008	008	800
YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
National Ins.(NI)	Вутех	National Ins.(NI)	HUWAI	HUWAI	HUWAI	HUWAI	National Ins.(NI)	National Ins.(NI)	National Ins.(NI)
Employability, Career, Entrepreneurshiip	Employability, Entrepreneurshiip	Employability, Career, Entrepreneurshiip	Employability	Employability, Career	Employability, Career, Entrepreneurshiip	Employability/Ent.	Employability, Career, Entrepreneurshiip	Employability, Career, Entrepreneurshiip	Employability, Career, Entrepreneurshiip
NICLAD	COE Program in Cyber Security/Network Security Associate/ Network Security Professional	NICLAD	HCIA-AI	ANN, AI, DATA SCIENCE , VOICE OVER IP AND PROCTORS	Data Science - Airtificial Intelligence	ANN, CNN, AI -	NI CLAD	CLD	CLA
Cyber Security & Block Chain	Technology	(*)		Data science & Big Data Analytics				NI CLAD	
51	52	53	54	55	56	57	28	59	09
			-			-			

Dr. M. SUMAN Professor & Head Department of ECE KHODE F Green Fields, Vaddeswaram Gruntur Dist., A.P. PIN: 522 592

Certificate Course Incharge



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Board of Studies Meeting - 18

Time: 1.30 PM

Venue: Online WebEx Session 24th June 2020

Minutes of the meeting

Agenda items:

1.	First year course structure for B. Tech 2020-21 batch.
	Resolution/suggestions:
	It is resolved to adopt 2019-20 course structure with design orientation. Members suggested to adopt the AY 2019-20 curriculum and courses in the I Year for AY 2020-21 as well.
2. a	To approve the course structure of M. Tech program: RADAR &
	Communication
	Resolution/suggestions:
	It is resolved to have discussions on the modified course structure for 2020-21 and will be approved in POST BOS meeting. Valuable inputs from the internal and external experts have been taken towards
	revamping the entire M. Tech programs.
	All the external members suggested to include a mathematics course into the
	program. External members suggested to modify titles of few courses.
2. b	To approve the course structure of M. Tech program: VLSI Design
	Resolution/suggestions:
	It is resolved to have discussions on the modified course structure for 2020-21 and will be approved in POST BOS meeting.
	Valuable inputs from the internal and external experts have been taken towards revamping the entire M. Tech programs.
	Members have suggested to add VLSI Signal Processing course in the core course instead of elective course.
	All the external members suggested to have Deep learning with Artificial Intelligence as common elective course for all M. Tech specializations.
3.	Inclusion of new chemistry course under basic science elective.
	Resolution/suggestions:
	It is resolved to offer 3 science elective courses.
	1. Engineering Chemistry.
	2. Chemistry and Bioinformatics for Engineers.3. Organic Electronics.





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Other suggestions:

- 1. Dr. Anil Kumar suggested to have Machine Learning or Artificial Intelligence as common elective courses for M. Tech programs.
- 2. Dr. Kishore Kumar suggested to review the titles of science electives.
- 3. Dr. Subba Rao suggested to have course on Deep Learning with AI as elective course for M. Tech programs.
- 4. Mr. Visweswaran J, suggested to have 2 credit mathematic course with for M. Tech RADAR & Communications
- 5. Suggested to develop M. Tech course structure in accordance with AICTE guidelines.
- 6. Dr. Anil Kumar suggested to have course codes according to the level of the course.

The resolutions of BOS meeting are forwarded to Academic Council for approval.

Professor & Head Department of EUE F Green Fields Wandeswaram Guntin Bobiece 22

Department Chair

Green Fleins, Carran Saranger



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KLEF DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGG. BOARD OF STUDIES MEETING

DATE: 24-06-2020 TIME: 01.30 PM

S. No	Name of the Faculty	Designation
1	Dr. M. Suman, Professor & HOD	BOS Chair
2	Dr. Vinay Kumar Mittal, Professor & Dept. Chair	Member
3	Dr. L. Koteswara Rao, Professor & HOD-ECE, KLH	Member
4	Dr. V. Anil Kumar, Asst. Professor, IIIT Hyderabad	External Member
5	T. Kishore Kumar, Professor, NIT Warangal	External Member
6	Dr. Habibullah Khan, Professor & Dean Student Affairs	Member
7	Dr. V Rajesh, Professor & Dean P & D,	Member
8	Dr. K.Sarat Kumar, Professor	Member
9	Dr. A.S.C.S.Sastry, Professor & COE	Member
10	Dr. K.Ch.Sri Kavya, Professor	Member
11	Dr. M Venkata Narayana, Professor & DHOD	Member
12	Dr. Madhukar Deshmukh, Professor & DHOD	Member
13	Dr. Lakshman Pappula, Assoc. Professor & DHOD	Member
14	Dr. I.Govardhani, Professor & RPAC	Member
15	Dr. M.Siva Ganga Prasad, Professor & HOD ECM	Member
16	Dr. P. Satya Srinivas Babu, Professor	Member
17	Dr. P Satyanarayana, Professor	Member
18	Dr. P V V Kishore, Professor	Member
19	Dr. M Sridhar, Professor	Member
20	Dr. S Koteswara rao, Professor	Member
21	Dr. G V Subbarao, Professor & RPAC	Member
22	Dr. M Venugopal Rao Professor & Assoc. Dean IQAC	Member
23	Dr. B T P Madhav, Professor & Assoc. Dean R&D	Member
24	Dr. D Venkat Ratnam, Professor	Member
25	Dr. K Srinivas Rao, Professor	Member
26	Dr. K Kumar Naik, Professor	Member
27	Dr. V. S. V. Prabhakar, Professor & Director IC	Member
28	Dr. T.V.Rama Krishna, Professor & Director (E-resources)	Member
29	Dr. K.S.Ramesh, Professor	Member
30	Dr. K.Hari Kishore, Professor & Assoc. Dean	Member
31	Dr. Md.Z Rehman, Professor	Member
32	Dr. P.Pardhasaradhi, Professor	Member N

Green HOD ECE



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33	Dr. B.Polaiah, Professor	Member
34	Dr. Fazal Noorbasha, Assoc. Professor & Assoc.Dean	Member
35	Dr. G. Naveen Kishore, Assoc. Professor	Member
36	Dr. M. Ravi Kumar, Assoc. Professor	Member
37	Dr. M. Goutham, Asst. Professor, ECE, KLH	Member
Special	Invitees	
1	Dr. N VenkatRam, Professor & Dean Academics	Special Invitee
4	Dr. M R Narasinga Rao, Professor, CSE	Special Invitee
5	Dr. Kalyan Chakravarthy, Professor, Mech	Special Invitee
6	Dr. J Somlal, Professor, EEE	Special Invitee
7	Dr. V S Bhagavan, Professor, Mathematics	Special Invitee
8	Dr. M. Venkateswarlu, Asst. Professor ,Physics	Special Invitee
9	Dr. K Giridhar, Assoc. Professor, Biotechnology	Special Invitee
10	Dr. B Siva Nagaiah, Assoc. Professor, English	Special Invitee
11	Dr. Bindu Madhavi Narayanam, Asst. Professor, MBA	Special Invitee
12	Dr. V Shanmukha Kumar, Professor, Chemistry	Special Invitee
13	Dr. Sai Krishna Santosh G, Assoc. Professor, ECE Dept.	Special Invitee
14	Mr. K. Sripath Roy Asst. Professor & Assoc. Dean, ECE Dept.	Special Invitee
15	Dr. C. Sandeep Reddy, Asst.Professor, ECE, KLH	Special Invitee
Indust	ry Experts	
1	Dr. Subba Rao, Head Budget, P&M division, NRSC, Bengaluru	Special Invitee
2	Mr. Visweswaran Jagadeesan, National Instruments, Bengaluru	Special Invitee
3	Mr. EBSV Charan, Lead RF, Honeywell, Hyderabad	Special Invitee

Report- Analysis of Feedback on curriculum – received from the stake holders prior to the commencement of the Academic Year 2020-21

Feedback from different stake holders has been collected in respect of the curriculum offered for the academic year <u>2021-20</u>

Serial	Type of Stake holder	Number of
Number		feedbacks
1	Students	1009
2	Parents	89
3	Alumni	4
4	Faculty	87
5	Academic peers	2
6	Industry persons	2
	Total	1193

Serial Number	Recommendations	Action Taken
1.	Student	
1	Please change the subjects and keep them in proper order for 1-1 to 4-2 so everyone can keep more concentration and increase lab equipment and keep them in good condition.	Proper structure already been framed from Y17 regulation
2	It is difficult to study 3 core subjects with project work.	Partially considered
3	Needed more practical approach	Project based course deliver from upcoming semester.
4	Make PPT with Examples in Video TypeGive Lecture in Projector what happening in world. Teach For Knowledge not for Mark'sProvide some Books which help Imagination	Considered and instructions are provided to respective course coordinators.
5	According to me, students who write gate suffer in their rank if they are in non-crt due to work load in the last semester and also parts of gate syllabus being covered in last semester in college. Both crt and non crt students could have had core subjects in the same semester that is 7th semester and then relaxation in the 8th semester equally for both so as to be able to cover the subjects and also be free of work load and prepare well for competitive exams like gate,gre etc.	Similar course structure is approved for Y17, Y18 and Y19 regulations. Load balancing is taken care in course structure.
6	Very good infrastructure in labs but no practical seriousness in guiding the students towards subject knowledge	BOS Chair instructed the respective course coordinators to conduct laboratories effectively.
7	Everything regarding the academics is fine sir but while conducting semester exam online the biggest challenge we face is internet connectivity as we are living in the 21st century everyone	Partially consider.

	is able to access to internet but the major problem students are raising is the poor internet connection. We can overcome this problem if you are able to provide a 15 min of buffer time for the students to submit the written copies and I personally recommend a mock test for us sir so that the students will get out of the assumptions they have regarding the test and complete it fruitfully.	
8	Syllabus is Ok,But i think if the syllabus is to reduce for core subjects is better to score more time is less to prepare for test-1 exams at a time we have to prepare for both two cos and after same process for test-2 also we have to recollect all at the end-sem but i think it was not able to remain all the topics we have to prepare both cos at a time for the exam. Now I'm 4-2 as my academic year is over but my review can help to up coming Jr's.	Syllabus revision is already been carried out in previous BOS meeting.
9	Coding must be included in 6 semesters	Considered, the classes are being conducted for interested students.
10	Dont give many projects for every course. Give them a try to make projects for every 2 semesters from combining all the courses covered in 2sems and give them some time to get ideas and help them to create their idea in real time, for every 2sems.	Consider, Project based course deliver from upcoming semester, where students will do one project per semester
11	Syllabus has to be practical oriented and student centric	Considered and designed the courses and course structure accordingly that has been approved in previous BOS.
12	Keeping all core subjects like control systems embedded systems in 4 th year is not good as we guys are busy in placement preparations and gate exams and keeping skilling subjects in 2 nd year is not good try too keep skilling in 3-2 and 4-1 which will help us to prepare for placement and other gre and gate exams	Consider and the necessary action has been taken in previous BOS. The course structure has been up to date from Y17 regulation onwards.
13	Need to improve the time given to complete the course and need to increase the lab experiments of flexi core courses	Consider and project based course delivery will be carried out for flexi core courses.
14	Honestly the entire courses are fast paced making them rather difficult to learn instead of interest to learn. The lack of hands-on for some courses and fast paced packed up syllabus make a complete disaster for learners. Need more practical and useful courses	Consider and more priority is given to laboratory and practical applications.
15	Practical should be more related to real life application. Student should be given the option either to do regular lab work designed in the course or do a SINGLE real time project for the entire semester that include using of technologies being taught in that semester. One of the best examples could be Electrothon.	BOS Agenda Item: 4, project based delivery.
16	Syllabus need not to be changed but we want all subjects to be done practical(labs). I need more in-depth concepts and interlinking of all concepts learnt in all previous 5 semesters that are relatable	BOS Agenda Item: 4, project based delivery for all lab based courses including flexi core courses.
2.	Parents	
1	Curriculum should be modified by adding the advanced concepts related to industry.	Will be considered for next curriculum revision.
2	The knowledge in the core courses should be enhanced.	Will be considered for next curriculum revision.
3.	Alumni	
1	Current technologies are to be included for PG programs also.	BOS Agenda Item:2
2	Topics such as internet of things and fabrication technology can be included in the curriculum.	Will be considered for next BOS meeting.

4.	Faculty	
T _E	 Information Theory and Coding Theory of source coding and channel coding is covered but should be taught more in algorithmic perspective CO1,2 covered source coding and CO3,4 covered channel coding, regarding the overall data communication from source symbol to data bits generated after channel coding should be illustrated in depth ECE students and also communication stream students of CSE No lab component Lab component also to be added 	Partially Considered and instructed to the course coordinators to do necessary modifications for the next BOS meeting.
2.	Wireless Communications 1. Establishment of Lab concern to the Course not Sufficient.	CC's are instructed to come up with plan of action for lab development.
	 More Courses to be designed to meet existing Challenges& how best we derive Opportunities for real-time applications. 	development.
3	1. NO LTP structure since it is coursera subject 2. Coursera DSP course is very good, but quiz solutions are available in the internet. Students have not learned the subject. They got the course completion certificate with more than 90% aggregate, but knowledge is poor in the subject.	Considered and regular In-sem and end-sem exams will be conducted from next semester.
4.	4G WIRELESS TECHNOLOGIES AND CELLULAR COMMUNICATIONS 1. To meet industry requirement some more topics should be added 2. Some topics are not in a particular sequence	Partially Considered and instructed to the course coordinators to do necessary modifications for the next BOS meeting.
5,	 The syllabus framed was at the level of M.Tech which is difficult for the students to grasp it. The syllabus is framed related to research where hands on is required for the better understanding of the course content Syllabus has to be modified as per B.Tech level 	Partially Considered and instructed to the course coordinators to do necessary modifications for the next BOS meeting.
6,	Video Surveillance 1. content should be through experimental (Case studies) 2. Skilling is required 3. course should be learnt through the experimental	Not considered as the course is a professional elective course.
7,	Basic Electronics and Circuits 1. Need more elaborate content to be included 2. Don't include this course as online course. It's difficult for students to learn. It's basement for all electronics and electrical branch.	Partially Considered.
8.	VLSI Design 1. My course is good need to have a lab	VLSI design course is offered as professional elective in one semester and as a flexi core course in another. The studenthas given the flexibility to study on his interest.
9.,	 EMFA NO lab attached to this particular course CO3 and CO4 of sylabus is vague and vast .may be improved in future. Co1 does not include mathematics pre requisite. Instead of accommodating some applications in 3rd competency, it'll be good if we cover the untouched areas of 	Partially consider and instructed to the course coordinators to do necessary modifications for the next BOS meeting.

	the subject. Similarly in the 4th competency instead of teaching the outline of the concepts, which are anyhow can be covered at a later stage as part of electives, it'll be more apt if Transmission lines & wave guides is taught (as these topics are not included anywhere at later subjects) 4. I feel this RF stream can be further strengthened 5. No.of credits for this course shall be improved 6. Good but syllabus has to be further upgraded so that the student can be trained to meet the requirements in the RF domain CO1 is very big topic. CO1 can be divided into 2 CO's and other 3 CO's can be combined and made it to 2 CO's	
10.	Computer Organization & Architecture COA needs at least 3-0-0 as L-T-P Structure	Consider and will be discussed in next BOS.
11,	INTRODUCTION TO AI &ANN AND TOOLS & APPLICATIONS 1. IF POSSIBLE, WE CAN INCLUDE THE LAB COMPONENTS 2. NEED TO BE ADD LAB COMPONENTS (;LAB EXPERIMENTS)	Consider and will be discussed in next BOS.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT ACADEMIC COMMITTEE MEETING

Venue: R101

Time: 10AM

23th June 2020

Minutes of the meeting

1. Proposals and modifications in current M. Tech programs (Radar Communications & VLSI) are forwarded to BOS for discussion.

Suggestions:

- i. Inclusion of project based skilling/capstone project for M. Tech Radar & Communications Program.
- ii. Dr. Sarat Kumar suggested to modify the title 'Space Technology & Data Science' for the M. Tech program.
- iii. Skilling courses must be designed with capstone project/ industry training orientation.
- 2. The syllabus of science elective courses offered from dept. of chemistry. (Engineering Chemistry, Chemistry and Bioinformatics for Engineers & Organic Electronics) are forwarded to BOS.

Suggestions:

- i. Dr. Sarat Kumar suggested for the inclusion of few topics on nanomaterials and food technology concepts in Organic Electronics course.
- 3. Consolidate feedback report from stake holder in previous semester has been analyzed and few suggestions are provided for effective course delivery.

Suggestions:

- i. Instructions are given to course coordinators and course instructors to implement project based learning.
- ii. HOD instructed all the members to ensure the effective conduction of laboratory.
- 4. Project based course delivery for upcoming semester.
- 5. Other academic related issue with discretion of the chair.
 - a. Project based learning
 - b. Teaching learning process
 - c. Preparation of lesson plan
 - d. Conduction of laboratory sessions

The modified course structure of M. Tech programs and structural changes are forwarded to BOS for approval.

Department of Electronics and Communication Engineering

Department Academic Committee Meeting

19th May 2021

Time: 10 AM

Online WebEx Meeting

Reporting items

- a. Faculty certifications, achievements, recognitions, and awards
- b. Placement status for Y17

Agenda Points:

- 1. Approval of course structures of M. Tech programs
- 2. Approval of I Year course structure
- 3. Two course codes for the internship offered in final odd semester and even semester.
- 4. Approval of pre-PhD courses
- 5. QP mapping of NSDC skills
- 6. Modifications and up-gradation of courses offered under Y19 & Y18 regulations.
- 7. Discussion on student and faculty feedback (Stake holder's feedback)

Minutes of the meeting

- 1. HOD has presented the faculty awards, various research activities conducted during the AY 2020-21 and the current placement status.
- 2. All DAC members approved the introduction of new B. Tech programs offered under ECE.
 - a. B. Tech in Internet of Things
 - b. B. Tech in Automation & Robotics
- 3. All DAC members approved the course structures of new M. Tech programs offered under ECE along with existing programs (M. Tech RADAR & Communication, M. Tech VLSI)
 - a. M. Tech in Robotics & Automation
 - b. M. Tech in IoT
- 4. DAC members agreed to have two course codes for internship offered during the final year odd and even semesters and forwarded for BoS for approval.
- 5. All members accepted the inclusion of new courses for pre-PhD examinations and the Dept. Chair recommended to relook into the course offered in other areas of specializations.
- 6. As per the suggestion of Dean Skilling, NSDC skill set has been identified and mapped to the courses offered under the ECE and the members approved the mapping of QP skill set.
- 7. The members approved the minor syllabus, CO modifications in courses 19EC3084, 19EC3052 and 19EC3022. Also approved the syllabus change of 19EC2106 and to be offered as 20EC2106 with LTPS 3022 instead 2033 for Y20 regulation. The recommended changes are forwarded to BoS for approval.
- 8. Stake holder's feedback is discussed at length for the enhancement of curriculum and teaching learning process.





KONERU LAKSHWAIAH

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Department of Electronics and Communication Engineering

Board of Studies Meeting - 21

Time: 05.45PM

Venue: Online WebEx

20th May 2021

Minutes of the meeting

Reporting items:

[Annexure-I]

1	42 faculty members have completed Huawei HCIA AI global certification. Out of
	which 26 faculty members have received the certificates.
2	Faculty achievements, recognitions, and awards.
3	Current placement status of Y17 admitted students.
4	Applied for AICTE approval for decrease in in-take of B. Tech ECE from 600 to
	360,
5	Applied for AICTE approval of new B. Tech IoT, M. Tech IoT and M. Tech
	Robotics & Automation.

Agenda items:

1.	To approve	the course	structures o	of M.	Tech	programs.
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- M. Tech IoT
- M. Tech Robotics & Automation
- M. Tech RADAR & Communication
- M. Tech VLSI

Resolution/suggestions:

- It is resolved to approve the course structures of new M. Tech programs offered.
 - M. Tech IoT
 - M. Tech Robotics & Automation
- It is resolved to approve the modified course structures of existing M. Tech programs.
 - M. Tech RADAR & Communication
 - M. Tech VLSI

[Annexure-II]

To approve I Year course structure for AY 2021-22 admitted batch. 2.

Resolution/suggestions:

It is resolved and approved to follow the course structure of 2020-21 batch.

[Annexure-III]

To include the course codes for internship, which will be offered during odd 3. and even semesters of final year (Y18 batch).

Resolution/suggestions:

BOS Chair ECE

Provisor & Head

Green Fields, Vaddeswaram Guntur Dist., A.P. PIN: 522 502



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•	All the committee members have been informed about the inclusion of the
	course codes for internship which will be offered during odd and even
	semesters of final year (Y18 batch).

COURSE CODE	COURSE NAME	L	T	þ	S	CRE DITS
18IE4050	PRACTICE SCHOOL	0	0	0	24	6
18IE4051	INTERNSHIP-1	0	0	0	24	6
18IE4052	INTERNSHIP-2	0	0	0	24	6

4. Approval of pre-PhD courses.

Resolution/suggestions:

- As per the suggestions from Dr. Vinay Kumar Mittal, Department chair, and Dr. Venkat Ratnam, Head Research, as decided to relook into the courses and submit the same within two weeks.
- All the committee members have accepted to include new courses for pre-PhD examination.

5. **QP Mapping of NSDC skills.**

Resolution/suggestions:

- As per the suggestions from Dean skilling NSDC skill set has been identified and mapped with the courses offered under ECE for the Odd Semester AY 2021-22.
- The skill set is also mapped with the various job profiles.

[Annexure-IV]

6. Modification and up gradation of courses under Y19& Y18 regulation.

Resolution/suggestions: All the members approved the modifications forwarded by DAC

- The course 19EC2106 Embedded controllers with LTPS: 2-0-3-2 has been modified as 20EC2106 Embedded Controllers & Embedded Systems Design with LTPS: 3-0-2-2.
- 19EC3084 Statistical Signal Processing, course outcomes have been updated with a pre-requisite of 19EC2208 Digital Signal Processing.
- The 19EC3052-Solar Photovoltaic Cells & Solar Power Arrays syllabus has been updated.
- 19EC3022 ADVANCE COURSE IN SOFT-COMPUTING (AI, ANN, FUZZY LOGIC & GENETIC ALGORITHMS) syllabus has been updated.

Syllabus modifications are mentioned in **Annexure-V**

Other Suggestions:

1. BoS chairman, suggested the Head Coordinator to re-look into the courses offered under professional electives of M. Tech Robotics & Automation.

BOS Chair, ECE

Dr. M. SUMAN

Professor & Head

Department of ECE

Green Fields, Laddeswaram Guntur Disc., A.P., PM: 522-502



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Annexure-I

1. 42 faculty members have completed Huawei HCIA AI global certification. Out of which 26 faculty members have received the certificates.

1	1181	Dr.M.Ravikumar
2	1286	Dr.S.Nagendram
3	2221	Dr.Murali Krishna Bopanna
4	2224	Dr.G.Venkata Ganesh
5	2469	Dr.M.Sridhar
6	2812	Dr.MVD PRASAD
7	2922	Dr. Venu Gopala Rao Matcha
8	2978	Dr.D.Bhavana
9	2980	SUBBA REDDY VASIPALLI
10	3011	K.Sony
11	3028	N.Durga Indira
12	3066	Dr.SiddaiahNalluri
13	3452	Dr.P V V Kishore
14	3621	Dr.P.PARDHA SARADHI
15	4173	Dr.Katta Rajesh Babu
16	4263	Ms.V.Sahithi
17	4387	Dr.B.Polaiah
18	4818	ALI BAIG MOHAMMAD
19	4858	Dr.Lakshman Pappula
20	4975	Dr.G.SivaVara Prasad
21	5129	Dr.C.S. Preetham Reddy
22	5230	T Penchala Naidu
23	5239	Mr. M. Lakshmanakumar
24	5251	Muzammil Parvez M
25	5413	Mohan K N
26	5891	Dr.E.Kiran Kumar

- 2. Faculty achievements, recognitions, and awards.
 - Dr. K. Sarat Kumar, Professor has received "Best Electronics and Communications Engineering Teacher" by ISTE, A P. Section.
 - Dr. K. Sarat Kumar, Professor has been recognized by MHRD as a member in NAAC peer review committee.
 - Dr. B. T. P. Madhav, Professor has received an award from Asia book of records for publishing maximum number of articles in reputed journals.

BOS Chair, ECE of ECE

Green Fields, Vaddeswaram

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3. Placement status of Y17 admitted batch.

			TOUTION PROP					
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING								
Category	Pega	WTN	NWTN	Total				
Registered	105	399	52	556				
Placed	103	348	46	497				
Not Interested	0	24	4	28				
Backlog/Low CGPA	0	1	0	1				
Yet 2 be Placed	2	26	2	30				

out of the remaining 30 Yet to be placed students, 12 students are already in various stages of interviews and expected to be placed in couple of days

	expected to be placed in couple of days	
	1. Total Placement Registered	556
	2. Placed	497
	3. Yet to be Placed	30
SUMMARY	4. Total Number of Placement Offers	819
	5. Total No. of Companies visted for ECE	56
	6. Total No. of NR Students Placed	30
	7. Highest Package Offered	12.2

BOS Chair, FRE

Dr. M. S UMAN

Professor & Head

Professor & Feed

Department of ECE

Green Fields, Vaddeswaram

Guntur Dist., A.P. PIN: 522 502

Guntur Dist., A.P. PIN: 522 502



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Annexure-II

Course structures of M. Tech programs.

i. M. Tech IOT

KLEF Dept. of Electronics and Communication Engineering M. Tech IoT AY. 2020-21

	Semester-I					
S.	Course Title		Per	Credits		
No.		L	T	P	S	Credits
1	IoTs, WSN & Bio-medical Applications	3	0	2	0	4
2	Embedded Controllers & SoCs	3	0	2	0	4
3	Modern Data Computing - Foundation Course [Statistics, AI, ANN & ML]	3	0	2	0	4
4	Flexi-Core Course 1	3	0	2	0	4
5	Professional Elective 1	3	0	0	4	4
6	Seminar	0	0	4	0	2
7	Technical Skilling-I	0	0	0	4	1
	Total	18	3	8	6	23
	Semester-II					
S.	Course Title		Per	riods		Credits
No.	Course ride	L	T	P	S	Citaits

S.	Course Title		Periods		Periods			Credits
No.	Course Title	L	T	P 2 2 2 0 0 4	S	Cicuits		
1	Solar PV Cells & Solar Power Arrays	3	0	2	0	4		
2	Autonomous Vehicles & Automation Electronics	3	0	2	0	4		
3	Flexi-Core Course 2	3	0	2	0	4		
4	Professional Elective 2	3	0	0	4	4		
5	Professional Elective 3	3	0	0	4	4		
6	Term Paper	0	0	4	0	2		
7	Technical Skilling-II	0	0	0	4	1		
	Total	18	2	8	10	23		

Semester-III&IV **Periods** S. Credits **Course Title** No. T P S \mathbf{L} 3 1 0 0 Open Elective-1 1 4 0 0 2 Open Elective-2 3 12 M. Tech. Project 1

Professor & Head Department of ECE

Green Fields, Vaddeswaram Guntur Dist., A.P. PIN: 522 502



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4	M. Tech. Project 2	2	4	8	8	12
5	eminar Talks & Viva	2	2	0	0	4
6	Research Paper & Viva	2	6	0	0	8
7	Dissertation	0	0	72	0	36
	Total Program Credits					82
	Flexi Core 1&2 Courses					
1	Analog Digital Circuits, VLSI, ASICs and FPGA [ADC-VLSI-ASICS-FPGA]	3	0	2	0	4
2	Analog Digital Communication & Wireless Data Networks [ADCom-WDN]	3	0	2	0	4
3	Data Networks, WSN and Protocols	3	0	2	0	4
4	Control Systems, Robotics & Automation - Foundation Course	3	0	2	0	4
5	Data Bases, Data Modeling& Data Structures [DB-DM-DS]	3	0	2	0	4
6	Advanced Data Structures, Algorithms [Java] and Mobile Apps	3	0	2	0	4
7	Operation Research, System Engineering, Design & Optimization	3	0	2	0	4
8	Advanced Course in Data Computing [AI, ANN, ML & DS]	3	0	2	0	4
S.	G MILL		Periods			G 114
No.	Course Title	L	Т	P	S	Credits
Elect	ive-1					!
1	Signal Processing for IoTs [Speech, Image, Biomedical]	3	0	0	0	3
2	IoTs & Smart Cities Basic Course [IoT-SC BC]	3	0	0	0	3
_	Wireless Technologies			0	0	3
3	[GPRS, WCDMA, GSM, UMTS]	3	0	U	l O)
Elect	[GPRS, WCDMA, GSM, UMTS] ive-2	3	[0	0	1 0	3
		3	0	0	0	3
Elect	ive-2 Systems for Smart Cities &	3	0	0	0	3
Elect 1 2	Systems for Smart Cities & Smart Villages Systems for Renewable Energy & Smart Grids	3	0 0	0 0	0 0	3
1 2 3	Systems for Smart Cities & Smart Villages Systems for Renewable Energy & Smart Grids Computer Vision & Video Surveillance Systems	3	0	0	0	3
Elect 1 2	Systems for Smart Cities & Smart Villages Systems for Renewable Energy & Smart Grids Computer Vision & Video Surveillance Systems ive-3	3	0 0	0 0	0 0	3
Elect 1 2 3 Elect 1	Systems for Smart Cities & Smart Villages Systems for Renewable Energy & Smart Grids Computer Vision & Video Surveillance Systems ive-3 Human Machine Interface & Brain Machine Interface (HMIBMI)	3 3 3	0 0 0	0 0	0 0	3 3 3
1 2 3 Elect 1 2	Systems for Smart Cities & Smart Villages Systems for Renewable Energy & Smart Grids Computer Vision & Video Surveillance Systems ive-3 Human Machine Interface & Brain Machine Interface (HMIBMI) Cloud-Computing & NetworkSecurity	3 3 3	0 0 0	0 0 0	0 0	3 3 3
1 2 3 Elect	Systems for Smart Cities & Smart Villages Systems for Renewable Energy & Smart Grids Computer Vision & Video Surveillance Systems ive-3 Human Machine Interface & Brain Machine Interface (HMIBMI)	3 3 3	0 0 0	0 0 0	0 0 0	3 3 3

Professor & Head
BOS Chair ECE to GECE
Green Findes meddeswaram
Guntur Dist., M. PIM: 522 502



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ii. M. Tech Robotics & Automation

KLEF Dept. of Electronics and Communication Engineering M. Tech Robotics & Automation ΔV 2021-22

	AY. 2021-22					
	Semester-I	45				
S.	C Tid	Course Tide Periods		iods		Credits
No.	Course Title	L	Т	P	S	Credits
1	Control Systems, Robotics & Automation - Foundation Course	3	0	2	0	4
2	Embedded Controllers & SoCs	3	0	2	0	4
3	Modern Data Computing - Foundation Course [Statistics, AI, ANN & ML	3	0	2	0	4
4	Flexi-Core Course 1	3	0	2	0	4
5	Professional Elective 1	3	0	0	4	4
6	Technical Skilling-I	0	0	0	8	2
	Total	15	0	8	12	22
	Semester-II					
S.	C T'd		Per	iods		Cuadita
No.	Course Title	L	Т	P	S	Credits
1	Advanced Robotics Course	3	0	2	0	4
2	Autonomous Vehicles & Automation Electronics	3	0	2	0	4
3	Flexi-Core Course 2	3	0	2	0	4
4	Professional Elective 2	3	0	0	4	4
5	Professional Elective 3	3	0	0	4	4
6	Technical Skilling-II	0	0	0	8	2
	Total	15	0	6	16	22
	Semester-III		1			
S.	o mid		Per	iods		C - 1'4-
No.	Course Title	L	Т	P	S	Credits
1	Open Elective [Online Course/MOOC Allowed]	3	0	0	0	3
2	M. Tech. Project Dissertation - Part 1	0	0	3	6	18
3	Seminar Talks/Presentations	0	0	2	0	1
	Total	3	0	38	0	22
	Semester-IV					
S.	G Tid		Periods			C 11:
No.	Course Title	L	Т	P	S	Credits
1	M. Tech. Project Dissertation - Part 2	0	0	36	0	18
2	Research Paper & Presentation	0	0	6	0	3
	Total	0	0	42	0	21
	Total Program Credits					87

BOS Chair, ECE M A N

Professor & Head

Professor & Head

Department of ECE

K E F

Green Fields, Vaddeswaram

Guntur Dist., A.P. PIN: 522 502



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Flexi	Core Courses 1 & 2					
1	Operation Research, System Engineering, Design & Optimization	3	0	2	0	4
2	Semiconductor Physics and Semi-conductor Memories	3	0	2	0	4
3	Wireless Communication & Data Communications [WC-DN] Data Networks [ADCom-WDN]	3	0	2	0	4
4	IoTs, WSN & Bio-medical Applications	3	0	2	0	4
5	Data Bases, Data Modeling& Data Science	3	0	2	0	4
6	Advanced Data Sciences, Algorithms [Java] and Mobile Apps	3	0	2	0	4
7	Signal Processing for Robotics [Speech, Image, Biomedical]	3	0	2	0	4
8	Advanced Course in Data Computing [AI, ANN, ML & DS]	3	0	2	0	4
Prof	essional Elective 1					
1	Mechatronics Systems	3	0	0	4	4
2	Human Machine Interface & Brain Machine Interface (HMI BMI)	3	0	0	4	4
3	Industrial Automation, Bio Robotics & Assistive Robotic Systems	3	0	0	4	4
Prof	essional Elective 2					11
1	Advanced Controls Systems & CNC Technologies	3	0	0	4	4
2	Cloud-Computing & Network Security	3	0	0	4	4
3	Computer Vision & Video Surveillance Systems	3	0	0	4	4
Prof	essional Elective 3				-	
1	Data Networks, WSN and Protocols	3	0	0	4	4
2	Advanced Micro & Nano Devices and Systems	3	0	0	4	4
3	Block Chain & Cyber Security	3	0	0	4	4
4	Advanced Machine Learning, DNN & CNN	3	0	0	4	4





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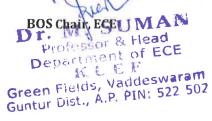
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iii. M. Tech RADAR & Communication

KLEF

Dept. of Electronics and Communication Engineering M. Tech Radar & Communications AY. 2021-22

	Semester-I					
S.	Common Tida		Per	iods		Credits
No.	Course Title	L	T	P	S	Credits
1	Wireless Communication and Data Networks	3	0	2	0	4
2	Microwave Engineering & RF Systems Design	3	0	2	0	4
3	Modern Data Computing [Statistics, AI, ANN & ML]	3	0	2	0	4
4	Flexi Core Courses - 1 [Flexi-Core Course, out of 8]	3	0	2	0	4
5	Professional Elective – 1	3	0	0	4	4
6	Technical Skilling	0	0	0	8	2
	Total	15	0	8	12	22
	Semester-II					
S.	Course Title		Per	iods		Credit
No.	Course Title	L	Т	P	S	Credit
1	Wireless Technologies [GPRS, WCDMA, GSM, UMTS]	3	0	2	0	4
2	Antenna Design, EMI/EMC and Electronic Warfare	3	0	2	0	4
3	Flexi Core Courses - 2 [Flexi-Core Course, out of 8]	3	0	2	0	4
4	Professional Elective – 2	3	0	0	4	4
5	Professional Elective – 3	3	0	0	4	4
6	Technical Skilling	0	0	0	8	2
	Total	15 0 6 16			22	
	Semester-III&IV					
S.	C T'd	Periods		Credit		
No.	Course Title	L	Т	P	S	Credi
1	Open Elective [Online Course/MOOC Allowed]	3	0	0	0	3
2	M. Tech. Project Dissertation - Part 1	0	0	36	0	18
3	Seminar Talks/Presentations	0	0	2	0	1
	Total	3	0	38	0	22
	Semester-IV					
S:	Course Title		_	riods		Credi
No.	Course Title	L	Т	P	S	Cicui
1	M. Tech. Project Dissertation - Part 2	0	0	36	0	18
2	Research Paper & Presentation	0	0	6	0	3
	Total	0	0	42	0	21
	Total Program Credits					87





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6			Dan	iods		
S. No.	Course Title	L	T	P	S	Credits
Flexi	Core Courses - 1 & 2 Subjects					
1	VLSI, ASICs and FPGA [VLSI-ASICS-FPGA]	3	0	2	0	4
2	Data Bases, Data Modeling& Data Science [DB-DM-DS]	3	0	2	0	4
3	Embedded Controllers & SoCs	3	0	2	0	4
4	Control Systems, Robotics & Automation - Foundation Course	3	0	2	0	4
5	IoTs, WSN & Bio-medical Applications	3	0	2	0	4
6	Advanced Data Structures, Algorithms and Apps Development [Java]	3	0	2	0	4
7	Operation Research, System Engineering, Design & Optimization	3	0	2	0	4
8	Advanced Course in Data Computing [AI, ANN, ML & DS]	3	0	2	0	4
Profe	ssional Elective-1					
1	Signal Processing for Radars	3	0	0	4	4
2	Solar PV Cells & Solar Power Arrays	3	0	0	4	4
3	Optical Communication Networks & Quantum Computing	3	0	0	4	4
Profe	ssional Elective-2					
1	5G Mobile, Wireless Technologies & IEEE 802 Standards	3	0	0	4	4
2	Modern Antennas, Millimeter Waves Radars & Applications	3	0	0	4	4
3	Semi-conductor Memories & MEMS	3	0	0	4	4
Profe	ssional Elective-3					
1	Satellite Communications & Modern Navigation Systems	3	. 0	0	4	4
2	Modern Radars & Autonomous Vehicles	3	0	0	4	4
3	Block Chain & Cyber Security	3	0	0	4	4
4	Advanced Machine Learning, DNN & CNN	3	0	0	4	4
Open	Elective Courses through LinkedIn					
1	Prepare for the PMI ACP Certification	3	0	0	0	3
2	Becoming a Six Sigma Black Belt	3	0	0	0	3
3	Become a Technical Program Manager	3	0	0	0	3
4	Digital Transformation for Tech Leaders	3	0	0	0	3
5	Become a Programmer: Foundations	3	0	0	0	3
6	Prepare for the AWS Certified Solutions Architect (Associate) Exam (SAA-C01)	3	0	0	0	3
7	Become a Data Analyst	3	0	0	0	3
8	Prepare for the CompTIA A+ Certification (220-1001 and 220-1002)	3	0	0	0	3
9	Stay Competitive Using Design Thinking	3	0	0	0	3
10	Prepare for Microsoft Azure Architect Technologies Certification (AZ-300)	3	0	0	0	3
		3	1	0	_	3

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iv. M. Tech VLSI

KLEF Dept. of Electronics and Communication Engineering M. Tech. VLSI AV. 2021-22

	AY. 2021-22				_	
	Semester-I	-				
S.	Course Title			iods		Credits
No.		L	T	P	S	4
1	ASICs and FPGA – Foundation Course	3	0	2	0	4
2	Digital VLSI Design	3	0	2	0	4
3	Modern Data Computing - Foundation Course [Statistics, AI, ANN & ML]	3	0	2	0	4
4	Flexi-Core Course 1	3	0	2	0	4
5	Professional Elective 1	3	0	0	4	4
6	Technical Skilling-I	0	0	0	8	2
	Total	15	0	8	12	22
	Semester-II					
S.	G Wil		Per	iods		Cuadita
No.	Course Title	L	Т	P	S	Credits
1	Advanced Analog IC Design	3	0	2	0	4
2	Architectures for VLSI Systems Design	3	0	2	0	4
3	Flexi-Core Course 2	3	0	2	0	4
4	Professional Elective 2	3	0	0	4	4
5	Professional Elective 3	3	0	0	4	4
6	Technical Skilling-II	0	0	0	8	2
	Total	15	0	6	16	22
	Semester-III					
S.	a mil	Periods		C114-		
No.	Course Title	L	Т	P	S	Credits
1	Open Elective [Online Course/MOOC Allowed]	3	0	0	0	3
2	M. Tech. Project Dissertation - Part 1	0	0	3	6	18
3	Seminar Talks/Presentations	0	0	2	0	1
	Total	3	0	38	0	22
	Semester-IV					
S.	G Will		Pe	riods		C 1'4-
No.	Course Title	L	Т	P	S	Credits
1	M. Tech. Project Dissertation - Part 2	0	0	36	0	18
2	Research Paper & Presentation	0	0	6	0	3
	Total	0	0	42	0	21
	Total Program Credits					87

BOS Chair of ECE Department of ECE

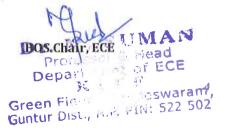
Flexi Core Courses 1 & 2

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1	VLSI Testing and Design for Testability	3	0	2	0	4
2	Semiconductor Physics and Semi-conductor Memories	3	0	2	0	4
3	Control Systems, Robotics & Automation - Foundation Course	3	0	2	0	4
4	IoTs, WSN & Bio-medical Applications	3	0	2	0	4
5	Data Bases, Data Modeling& Data Science	3	0	2	0	4
6	Advanced Data Structures, Algorithms [Java] and Mobile Apps	3	0	2	0	4
7	Operation Research, System Engineering, Design & Optimization	3	0	2	0	4
8	Advanced Course in Data Computing [AI, ANN, ML & DS]	3	0	2	0	4
Profe	essional Elective 1					
1	Signal Processing for VLSI	3	0	0	4	4
2	IC Fabrication Technology	3	0	0	4	4
3	Device Modeling for VLSI Circuit Simulation	3	0	0	4	4
Prof	essional Elective 2	.,		r—		
1	Low Power VLSI System Design	3	0	0	4	4
2	Algorithms for VLSI Design Automation	3	0	0	4	4
3	System Verilog & Universal Verification Methodology	3	0	0	4	4
Prof	essional Elective 3					
1	RF Mixed Signal IC Design & MEMS	3	0	0	4	4
2	Advanced Micro & Nano Devices and Systems	3	0	0	4	4
3	Block Chain & Cyber Security	3	0	0	4	4
4	Advanced Machine Learning, DNN & CNN	3	0	0	4	4





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Annexure-III

I Year course structure for AY 2021-22 admitted batch.

		Y21 REGULATION						
S. No	Course Code	Course Title	L	Т	P	S	Cr	СН
		SEMESTER-1						
1	21MT1101	Mathematics for Computing	2	2	0	2	4.5	6
2	21SC1101	Computational Thinking for Design	3	0	2	6	5.5	11
3	21UC1101	INTEGRATED PROFESSIONAL ENGLISH	0	0	4	0	2	4
4	21ME1103	Design Tools Workshop - I	0	0	4	0	2	4
5	21EC1101	Digital Logic & Processors	3	0	2	0	4	5
		Total	9	2	12	12	18	35
		SEMESTER-2						
1	21MT2102	Mathematics for Engineers	2	1	0	0	3	3
2	21SC1212	Data Structures & Alogrithms	3	0	2	4	5	9
3	21UC1212	English Proficiency	0	0	4	0	2	4
4	21SC1219	Design Tools Workshop - II	0	0	4	0	2	4
5	21EC1212	Computer Organization & Architecture	2	0	0	0	2	2
6	21EC1213	DESIGN OF BASIC ELECTONICS CIRCUITS	3	0	0	0	3	3
7	21UC1102	DESIGN THINKING AND INNOVATION-I	1	0	0	4	2	5
		Total	11	1	10	8	19	30

Profession Head
Department of ECE

K. J. F.

Green Fields, Vaddeswaram
Guntur Dist., A.P. PIN: 522 502



Annexure- IV

			National Occu	pational Star	ndards -Elec	National Occupational Standards -Electronics Sector Skills Council of India	skills Coun	cil of India	
COURSE	COURSE NAME	Sector	Sub Sector	QP Code	Occupati on	QP Name	NSQF Level	QP File	Model Curriculum
19EC2103	Analog Electronic Circuit Design	Electronics Sector Skills Council of India	Semiconductor Design and Active Components	ELE/Q12 01	Designin g	VLSI Design Engineer	S	https://nsdcindia.org/sites/default/file s/ELEQ1201_VLSI_Design_Engineer_v 1_04_01_2019.pdf	
19EC2104	Communication Signals & System Design	Electronics Sector Skills Council of India	Semiconductor Design and Active Components	ELE/Q13 01	Verificati on	Verification Engineer	ις	https://nsdcindia.org/sites/default/file s/QP_ELE-Q1301_Verification- Engineer.pdf	
19EC2105	Analog And Digital Communication	Electronics Sector Skills Council of India	Semiconductor Design and Active Components	ELE/Q14 01	Designin g	Physical Design Engineer	5	https://nsdcindia.org/sites/default/file s/QP_ELE-Q1401_Physical-Design- Engineer.pdf	
19EC2208	Digital Signal Processing	Electronics Sector Skills Council of India	Semiconductor Design and Active Components	ELE/Q14 03	Design	Embedded Product Designer - Technical Lead	9	https://nsdcindia.org/sites/default/file s/ELEQ1403_Embedded_Product_Desi gner_technical_lead_v1_10_10_2019. pdf	https://nsdcindia.org/sites/default/files/MC_ELEQ1403_Embedded%20Product%20Designer-technical%20Lead%20V1.0_21.10.2019.pdf
20EC2106	Embedded Controllers & Embedded Systems Design	Electronics Sector Skills Council of India	Semiconductor & Components	ELE/Q14 04	Product Design	Embedded Full-Stack IoT Analyst	5	https://nsdcindia.org/sites/default/file s/ELEQ1404_Embedded_FullStack_loT _Analyst_v1_10_10_2019.pdf	https://nsdcindia.org/sites/default/files/MC_ELEQ1404_Embedded_Fullstack_loT_Analyst_21.10.2019.pdf
19EC3018	Biomedical Electronics &lot For Healthcare	Electronics Sector Skills Council of India	Semiconductor & Components	ELE/Q14 05	Product Design	loT Hardware Analyst	5	https://nsdcindia.org/sites/default/file s/ELEQ1405_loT_Hardware_Analyst_v 1_10_10_2019.pdf	https://nsdcindia.org/sites/default /files/MC_ELEQ1405_10T%20Hard ware%20Analyst_V.10_21.10.2019 .pdf
19EC3015	VLSI Design	Electronics Sector Skills Council of India	Semiconductor Design and Active Components	ELE/Q12 01	Designin g	VLSI Design Engineer	S	https://nsdcindia.org/sites/default/file s/ELEQ1201_VLSI_Design_Engineer_v 1_04_01_2019.pdf	
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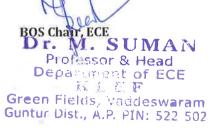
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Department

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S.No	Branch	Occupation / Job Role	Skilling Course to which this QP Is Mapped
1	ECE	VLSI Design Engineer	Semiconductor & Components 19EC2103 - Analog Electronic Circuit Design 19EC2104 - Communication Signals & System Design 19EC2105 - Analog And Digital Communication 19EC2208 - Digital Signal Processing 19EC3015 - VLSI Design
2	ECE	Telecom Technician- IOT Device/System	IoT Protocols & Architectures 2) IoT Sensing &Actuating Devices 20EC2106 - Embedded Controllers & Embedded Systems Design 19EC3018 - Biomedical Electronics &Iot For Healthcare
3	ECE	Network Engineer	19EC2210 -Data Networks & Protocols





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Annexure-V

r —	
Revision(%)	50%
Justification for the modifications	As Per the core companies recruitment System on Chip (SoC) newly added into CO4.
Changes in Course Unstification for Outcome(s) the modification	Understand the basic concepts of 'System on Chip (SoC)' and its Applications.
Topics added/removed/replaced	"Added: COI: OLD Syllabus (COI & CO2) Merged. CO2: OLD Syllabus CO3 & OLD CO4 PIC MC added. CO3: OLD Syllabus CO4 Replaced to new syllabus CO3 & OLD CO4 RTOS topic newly added. CO4: Advanced Topics: Introduction to Multiprocessor System Design and Bus Based Communication Architecture. Basic concepts of 'System on Chip (SoC)' and its Applications. Introduction to Microcontroller Boards. Removed: Replaces:"
New Syllabus	"CO1: Basics of Embedded System: Basics, Introduction and History of Processors, 8086 Architecture, Instruction set, 8086 programming and examples. Microcontroller Fundamentals: 8051 Architecture, addressing modes, Instruction set, Simple Programs involving Arithmetic and Logical Instructions, Timers/Counters, Interrupts. CO2: 8051 Interfacing: Serial Data Communication and RS-232C Standard with 8051 Programming, Peripherals and Input Output with 8051 Microcontroller (PIO, Timers and Interfacing). Introduction and Architecture of PIC & ATMEGA 32 Microcontrollers: Introduction to Real Time operating systems (RTOS). Basic concepts and applications of RTOS. Introduction to CORTEX-ARM (STM 32) & ARM7 (LPC2148) Microcontrollers. Basic Architecture (AMBA) concepts. CO4: Advanced Microcontroller Bus Architecture (AMBA) concepts. CO4: Advanced Topics: Introduction to Multiprocessor System Design and Bus Based Communication Architecture. Basic concepts of 'System on Chip (SoC)' and its Applications. Introduction to Microcontroller Boards.—Ex: Ardinoo
Existing Syllabus	"CO1: Basics of Embedded System: Basics, Introduction and History of Processors, 8086 Architecture, Instruction set, 8086 programming and examples. 5 Hrs CO2: Microcontroller Fundamentals: 8051 Architecture, addressing modes, Instruction set, Simple Programs involving Arithmetic and Logical Instructions, Timers/Counters, Interrupts. 10 Hrs. CO3: Serial Data Communication and RS-232C Standard with 8051 Programming, Peripherals and Input Output with 8051 Microcontroller (PIO, Timers and Interfacing) Modern Microcontrollers: Introduction and Architecture of PIC Microcontroller, Introduction of ARM7, Pin Description, Advanced Microcontroller Bus Architecture (AMBA).11 Hrs CO4: Advanced Topics: Introduction to CORTEX (STM 32), Architecture and Introduction to RTOS (Real Time operating systems). Basic concepts and applications of RTOS. 4 Hrs."
Course Title	Embedded Controllers & Embedded Systems Design
S.No Course Code	20EC2106
S	_

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	As Per the suggestion of Course Team and Expert members, The Detailed Concepts of Solar power System added into CO3.
	the le to SPV IIS MIL
	Able to understand the Solar power System and Design the analyse the SPV arrays, configurations with BTL Level of the SPV arrays.
	"Added: CO3: Solar Power System Topics: Solar Power systems (BOS) Components and Classification. Standard certification. Advanced Topics: Introduction to Smart Grids and Smart metering Removed: Voltage regulation: Grid connected structure, affine parameterization, sizing systems, feed forward control and PID controllers Replaces: Replaced the Removed content on the Clasification and Design consideration."
Beagle Bone, Raspberry Pi etc. Microcontroller Boards' Comparisons, Hardware Requirements, Pin Diagrams and detailed Descriptions, Interfacing & Instruction sets. Their key Features, Specifications, Programming & Applications."	of of ure, uits. PV nance anels, ocking ic tion: con solar rocess, ilar cells, SSCs, s solar ciolar cell ti
	"CO1: Solar Photovoltaic Fundamentals and characteristics: Structure, and characteristics of photodiode and solar cells. Photovoltaic Cells: Basic structure, materials and equivalent circuits. PV output Characteristics, protovoltaic Cells: Basic structure, materials and equivalent circuits. PV output Characteristics, performance testing of cells and equivalent circuits. PV output Characteristics, performance efficiency. Introduction to PV modules, plocking diodes. CO2: Solar Photovoltaic Crystalline and amorphous silicon solar cells. Properties, production process, cells: and modules, thin film solar cells. Offerent techniques of solar cells. Offerent techniques of solar cells and arrays. CO3: Solar photovoltaic Systems Design, Testing and Optimisation: Solar PV system design consideration, process, and design consideration testing. Voltage regulation: Grid connected structure, affine and device and characteristics of photovoltaic Systems design consideration to PV modules, photovoltaic Systems design cells and arrays. CO3: Solar photovoltaic Systems design consideration, process, and design consideration testing. Voltage regulation: procedure for panels: Performance measurements, and characteristics of photovoltaic structure, affine and characteristics of photovoltaic structure, affine and characteristics of proteins and characteristics of proteins and characteristics of photovoltaic structure, affine and characteristics of photovoltaic structure, and characteristics of photovoltaic structure, and characteristics of photovoltaic structure, and characteristics of cells: and characteristics of cells: and characteristics of cells: and charact
	Solar Photovoltaic Cells & Solar Power Arrays
<u>.</u> ,	19EC3052

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<20%
As Per the Al based core Companies recruitment System trending and currently using algorithms were added.
Understand and apply the industry methodologies and algorithms.
"Added: CO1: Apply Regression to Predictive Analytics, Operation Efficiency, Supporting added. CO2 and CO3 interchanged to mantain sequence in learning and link between the topics. CO4: As it is an advanced course, some application areas were added to closely match the industry need. Removed: CO1: Removed BFS, DFS search techniques, Bayes rule (Naive Bayes) as the students already studied these topics in 2nd year course statistics AI and ANN Replaces:"
"CO1: Knowledge Systems: Linear Regression, Logistic Regression, Ridge Regression, LASSO, Polynomial, Bayesian Liner Regression. Apply Regression to Predictive Analytics, Operation Efficiency, Supporting Decisions, New Insights. CO2: Machine Learning: Curse of dimensionality, PCA, Linear Discrimant Analysis, extensions of LDA, clustering, k-Means algorithm, Expectation Maximization algorithm Method, Vector quantization, support vector machine, variations in SVM, Gaussian Mixture models, applications of GMMs. CO3: Deep Learning: Nonlinear classification, ANN with Gradient Descent algorithm - SGD, ADAM Optimizer, Activation Function,
"CO1: (i) Advanced topics in Al: BFS, DFS Search Techs (ii) Bayes Rule, Logic Progg, Knowledge Systems: Naive Bayes, Linear Regression, Logistic Regression, Objectives of KBS, Components, Categories, Knowledge Based System Architecture CO2: Advanced topics in ANN: Non linear classification, Gradient Descent algorithm, Boltzmann Machine, Recurrent Neural Networks, Associative memories, Hopfield networks, Convolutional Neural Networks. Deep Learning, Deep Neural NWs: CO3: Few Topics in ML: Curse of dimensionality, PCA, Linear Discrimant Analysis, extensions of LDA, clustering, k-Means algorithm, Expectation Maximization,
Advanced Course in Soft- Computing (AI, ANN, ML, Fuzzy Logic & Genetic Algorithms)
18EC3021

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algorithm, Genetic cycles. Applications: Networks, Deep Learning, Deep Neural Decision trees, VGG – 16, ResNet, Yolo, Mobilenet, Autoencoders, GoogleNet, Methods: Adaptive Fuzzy Logic: Fuzzy Long Short-Term Memory Networks Losses, Recurrent Neural Networks, NWs. CO4: Intro to soft Computing functions, operations on fuzzy sets, relationships. Genetic Algorithms: logic and fuzzy sets: Membership Associative memories, Hopfield networks, Convolutional Neural types of fuzzy functions, Fuzzy Basic Operations of a Genetic fuzzy sets, types of fuzzy functions, Fuzzy relationships; Genetic Algorithms: Basic applications of GMMs. CO4: Intro Other Membership functions, operations on suppot vector machine, variations in Computing Methods: Adaptive Fuzzy Operations of a Genetic algorithm, Logic: Fuzzy logic and fuzzy sets: SVM, Gaussian Mixture models, Genetic cycles "

Fransformers."

IMAN ECE ECE BOS Chair, ECE Prof-Depar Green Fields, Vacdeswaram Guntur Dist., A.P. PIN: 522 502





KONERU LAKSHWAIAH EDUCATION FOUNDATION

(Deemed to be University, Estd. u/s. 3 of UGC Act 1956)

Department of Electronics and Communication Engineering

Department Academic Committee Meeting

22nd September 2020

Time: 11AM

Online WebEx Meeting

Agenda:

- 1. ECE course structure for Y20 admitted students.
- 2. Inclusion of design based courses as additional courses into the Y19 curriculum with 2Cr each.
- 3. Course structure of M. Tech VLSI program.
- 4. Course structure of M. Tech RADAR & Communications.
- 5. Details of conduction of remedial classes.
- 6. Discussion reg. the conduction of remedial examinations.
- 7. List of ECE courses offered through online.
- 8. Discussion about certification courses.

Minutes of the meeting

- 1. All DAC members strongly opposed the conduction of design of basic electronics circuits course in summer semester.
- 2. Also the members expressed their concern over the IV and V semester structure, where the students are over loaded with 40+ contact hours per week. Due to the inclusion of new courses.
- 3. DAC members strongly recommend the inclusion of Network theory and basic electronic circuits course with 4Cr in II-Semester.
- 4. Dr. M Venkata Narayana, proposed to include JAVA course into curriculum in view of enhancing placement and employability skills, DAC members forwarded to BOS for discussion.
- 5. It is approved for the inclusion of design-based courses as additional courses having 2Cr each and a total of four design-based courses into the curriculum.
- 6. DAC members forwarded the new course structure of M. Tech programs for AY 2020-21 to the BOS for approval.
- 7. DAC recommended put forth the new detention policy for the consideration of Dean Academics and Academic Counsel, the policy as follows
 - a. Only Summative assessment can be considered for detention.
 - b. The total summative shall be calculated as the sum of 75% of max. marks of test1 or test2, and 25% of min. of test1 or test2
 - c. Summative evaluation (Test-1 and Test-2) 30M
 - d. Formative evaluation (ALM's, Home Assignment, Continuous Project Evaluation) 15M
 - e. Attendance 5M

Note: If the student obtain <50% of marks in the summative assessment he/she can be considered for detention.

Professor & Head Department of ECE KLEF

BOS Chair, ECE

Green Fields, Vaddeswaram. Guntur Dist., A.P. PIN: 522 502



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- 8. The committee members recommended new policy for remedial classes and betterment for Dean Academics consideration and as follows
 - f. Student obtain marks less than <50% must attend remedial classes and must take the remedial test.
 - g. Student obtain marks in the range of >50% can appear the betterment test, as per the students choice.
 - h. The best of regular test marks or remedial/betterment marks will be considered for assessment.
- 9. The committee members recommended new academic evaluation policy for insemester assessment for Dean Academics consideration and as follows
 - a. To have three in-semester evaluations and the best of two will be consider for the internal marks and detention policy, this is at the discretion of Dean Academics and Principal COE.
- 10. Dept. Chair, Prof. V. K. Mittal has proposed four new M. Tech programs with new course structure for AY 2021-22
 - a. M. Tech in IOT & Smart City Technologies
 - b. M. Tech in Robotics & Automation Electronics
 - c. M. Tech in Advanced Signal processing with AI & ML
 - d. M. Tech in AI & DS for Electronic Communication Systems

The above mentioned M. Tech programs are recommended by DAC

- 11. DAC members agreed to have three technical certifications with atleast of one global certification. Also, the Head of the dept. called for certification course proposals by the Academic/Head coordinators from their respective domains.
- 12. DAC members suggested that the student must do the certifications as per his respective specialization.
- 13. DAC members approved the conduction of various ECE courses through online MOOC's.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Standing Committee to Board of Studies Meeting - 19

Time: 3.30 PM

Online WebEx Session

22th September 2020

Minutes of the meeting

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Agenda n	
1.	To approve ECE course structure for Y20 admitted students. Resolution/suggestions:
	 All the members have strongly opposed the summer class work and the conduction of design of basic electronics circuits course. The concern over the V and VI semester structure, where the students are overloaded with 40+ contact hours per week. Due to the inclusion of new courses, will be managed by providing minimum of 8 hrs of independent learning for skill-based courses. The committee members strongly recommended the inclusion of Network theory and basic electronic circuits course with 4Cr in II-Semester. Dr. M Venkata Narayana, proposed to include JAVA course into curriculum in view of enhancing placement and employability skills, will be considered for next curriculum revision.
2.	To approve the inclusion of design-based courses as additional courses with 2Cr each into Y19 curriculum. Resolution/suggestions:
	It is approved for the inclusion of design-based courses as additional courses having 2Cr each and a total of four design-based courses into the curriculum. Annexure-I
3. a	To approve the course structure of M. Tech program: RADAR & Communication Resolution/suggestions:
	Approved the course structures of M. Tech in RADAR & Communications for A.Y. 2020-21, with the incorporation of suggestion in previous BOS meeting. Annexure-II
3. b	To approve the course structure of M. Tech program: VLSI Design
	Resolution/suggestions:
	It is resolved to approve the course structures of M. Tech in VLSI for A.Y. 2020-21, with the incorporation of suggestion in previous BOS meeting. Annexure-III
4.	New policies for conduction of remedial classes, remedial examinations, and student detention Resolution/suggestions:
	1. The committee put forth the new detention policy for the consideration of Dean Academics and Academic Counsel, the policy as follows a. Only Summative assessment can be considered for detention. b. The total summative shall be calculated as the sum of 75% of

Professor & Head BOS Chair Department of ECE K L E F
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5.	max. marks of test1 or test2, and 25% of min. of test1 or test2 c. Summative evaluation (Test-1 and Test-2) 30M d. Formative evaluation (ALM's, Home Assignment, Continuous Project Evaluation) 15M e. Attendance 5M Note: If the student obtain <50% of marks in the summative assessment he/she can be considered for detention. 2. The committee members recommended new policy for remedial classes and betterment for Dean Academics consideration and as follows a. Student obtain marks less than <50% must attend remedial classes and must take the remedial test. b. Student obtain marks in the range of >50% can appear the betterment test, as per the students choice. c. The best of regular test marks or remedial/betterment marks will be considered for assessment. 3. The committee members recommended new academic evaluation policy for in-semester assessment for Dean Academics consideration and as follows a. To have three in-semester evaluations and the best of two will be consider for the internal marks and detention policy, this is at the discretion of Dean Academics and Principal COE. To approve the list of ECE courses offered through online MOOC's as per little is resolved to conduct various ECE courses through online MOOC's as per
6.	the university policy. Discussion on the offering and conduction of contification courses
0.	Discussion on the offering and conduction of certification courses. Resolution/suggestions:
	 The committee members agreed to have three technical certifications for all students as per the academic regulations and the student has to complete atleast two global/recognized certifications per specialization. The Head of the dept. called for certification course proposals by the Academic/Head coordinators from their respective domains. The certificate courses can be complete through online MOOC's (Coursera, Edx, Simplilearn, etc) as per the discretion of Dean Academics.
7.	Proposal of new M. Tech programs for AY 2020-21. Resolution/suggestions:
	Dept. Chair, Prof. V. K. Mittal has proposed four new M. Tech programs with new course structure for AY 2021-22 a. M. Tech in IOT & Smart City Technologies b. M. Tech in Robotics & Automation Electronics c. M. Tech in Advanced Signal processing with AI & ML d. M. Tech in AI & DS for Electronic Communication Systems

The resolutions of BOS meeting are forwarded to Academic Council for approval.





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S. No	Name of the Faculty	Designation
1	Dr. M. Suman, Professor, HOD & BOS Chair	BOS Chair
2	Dr. Vinay Kumar Mittal, Professor & Dept. Chair	Member
3	Dr. L. Koteswara Rao, Professor & HOD-ECE, KLH	Member
4	Dr. Habibullah Khan, Professor	Member
7	Dr. V Rajesh, Professor	Member
8	Dr. K.Sarat Kumar, Professor	Member
9	Dr. A.S.C.S.Sastry, Professor	Member
10	Dr. K.Ch.Sri Kavya, Professor	Member
11	Dr. M Venkata Narayana, Professor	Member
12	Dr. Madhukar Deshmukh, Professor	Member
13	Dr. Lakshman Pappula, Assoc. Professor	Member
14	Dr. I.Govardhani, Professor	Member
15	Dr. M.Siva Ganga Prasad, Professor & HOD ECM	Member
16	Dr. P. Satya Srinivas Babu, Professor	Member
17	Dr. P Satyanarayana, Professor	Member
18	Dr. P V V Kishore, Professor	Member
19	Dr. M Sridhar, Professor	Member
20	Dr. S Koteswara rao, Professor	Member
21	Dr. G V Subbarao, Professor	Member
22	Dr. M Venugopal Rao Professor	Member
23	Dr. B T P Madhav, Professor	Member
24	Dr. D Venkat Ratnam, Professor	Member
25	Dr. K Srinivas Rao, Professor	Member
26	Dr. K Kumar Naik, Professor	Member
27	Dr. V. S. V. Prabhakar, Professor	Member
28	Dr. T.V.Rama Krishna, Professor	Member
29	Dr. K.S.Ramesh, Professor	Member
30	Dr. K.Hari Kishore, Professor	Member
31_	Dr. Md.Z Rehman, Professor	Member
32	Dr. P.Pardhasaradhi, Professor	Member
33	Dr. B.Polaiah, Professor	Member
34	Dr. Fazal Noorbasha, Assoc. Professor	Member
35	Dr. Ch. Sreevardhan, Assoc. Professor	Member
36	Dr. M. Ravi Kumar, Assoc. Professor	Member
37	Dr. M. Goutham, Asst. Professor, ECE, KLH	Member
38	Dr. C. Sandeep Reddy, Asst. Professor, ECE, KLH	Member





KLEF

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Y19 REGULATION SEMESTER-1 19MT1101 Mathematics for Computing SCH CORE BS 0 4 8 2 19UC1101 Basic English SCH CORE HS 0 0 0 2 4 4 NIL. 19SC1101 Problem Solving and Computer Programming SCH CORE ES 3 0 2 0 4 5 NIL 4 19SC1106 Technical Skills-1(Coding) SCH CORE ES 0 0 0 6 1.5 6 NIL 5 19ME1103 DESIGN TOOLS WORKSHOP - I **UNI CORE** ES 0 0 0 2 4 4 NIL 6 19EC1101 Digital Logic & Processors SCH CORE ES 0 0 3 2 4 5 NIL 19GN1101 Counsling-1 SCH CORE BS 0 0 0 4 0 4 NIL Total 9 1 12 14 18.5 36 SEMESTER-2 19MT2102 Mathematics for Engineers SCH CORE BS 0 0 NII 2 19SC1203 Object Oriented Programming 3 SCH ELEC ES 0 2 3 4.75 8 NIL 3 19SC1202 Data Structures SCH CORE ES 3 0 2 3 4.75 8 NIL 4 19UC1202 English Profieciency UNI CORE HS 0 0 0 4 2 4 NIL. 5 19EC1202 Computer Organization & Architecture SCH CORE PC 2 0 0 0 2 NIL 6 19EC1213 BASIC ELECTRICAL AND ELECTONICS ENGINEERING DEP CORE ES 3 0 0 0 3 3 NII 7 19SC1209 DESIGN TOOLS WORKSHOP - II SCH ELEC ES 0 0 4 0 2 4 NIL 0 14 12 6 21.5 32 SEMESTER-3 19EC2103 Analog Electronic Circuit Design **DEP CORE** PC 3 2 4.5 NIL 2 19EC2104 Communication Signals & System Design 3 DEP CORE PC 1 0 0 4 4 NII. 3 19EC2105 Embedded Controllers **DEP CORE** PC 2 0 3 2 4 7 NIL 4 19EC2106 Analog and Digital Communication DEP CORE PC 3 0 3 0 4.5 6 NIL. ELECTRONIC WORKSHOP-II (ELECTRONIC SYSTEM DESIGN 5 19EC2111 SCH ELEC 0 ES 1 2 2 2.5 5 NIL 19EC2112 IT WORKSHOP-I (HTML,XML,WEB DESIGN) 6 SCH ELEC ES 0 2 0 2 3 NIL 7 19UC2103 Professional Communication Skills **UNI CORE** HS 0 0 4 0 2 4 NIL 8 19TS4001 Skilling for Engineers-1 SCH ELEC SK 0 0 0 4 NIL. 1 9 Desing Thinking and Innovaiton-1 SCH CORE BS 1 0 0 4 2 5 NIL Total 1 16 14 26.5 14 42 SEMESTER-4 19EC2207 Electromagnetic fields & Applications DEP CORE PC 3 1 0 0 4 4 NII. 5 19EC2208 Digital Signal Processing **DEP CORE** PC 3 0 2 0 NIL 4 5 19EC2209 Statistics, AI, ANN-Basic course DEP CORE PC 3 0 0 2 3.5 5 NIL 3 19EC2223 Introduction to AI & ANN Tools and Applications DEP CORE PC 3 0 0 0 3 3 NII. 19EC2210 2 Data Networks & Protocols **DEP CORE** PC 3 0 0 2 4 5 NIL 4 19EC2214 ELECTRONIC WORKSHOP-III (IOT Workshop) ES SCH ELEC 0 0 4 1 2 5 NIL. 6 19UC2204 Aptitude Builder-I **UNI CORE** HS 0 0 4 0 2 4 NIL 7 Professional Elective-1 DEP ELEC PE 3 0 0 2 3.5 5 NIL 8 19TS4002 Skilling for Engineers-2 SCH ELEC SK 0 0 0 4 4 NIL. Desing Thinking and Innovaiton-1 SCH CORE BS 1 0 0 4 2 5 NIL.



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		SEMESTER-	- 5								
1		Science Elective-1	SCH ELEC	BS	3	0	2	1 0	4	5	NIL
2		Flexi Core-1	SCH CORE	FC	3	0	2	0	4	5	NIL
3		Flexi Core-2	FLEXI CORE	FC	3	0	2	0	4	5	NIL
4		Professional Elective-2	FLEXI CORE	PE	3	0	0	0	3	3	NIL
5		Professional Elective-3	DEP ELEC	PE	3	0	0	0	3	3	NIL
6	19UC3105	Aptitute Builder-II	DEP ELEC	HS	0	0	4	0	2	4	NIL
7		Open Elective-1 (Advanced Learners)	UNI CORE	OE	3	0	0	0		3	NIL
8	19TS4003	SKILLING FOR ENGINEERS-3	OPEN ELE	SK	0	0	0	4	1	4	NIL
9	19TS4005	TECHNICAL PROFICIENCY & TRAINNING-I	SCH ELEC	SK	0	0	0	4	1	4	NIL
0	19IE2246	Industrial Training	SCH ELEC	PR	0	0	0	0	2	0	NIL
		Total	OCT EBBC		18	0	10	8	24.0	36	INIT
		SEMESTER-	6		10	V	10	0	24.0	30	
1		Science Elective-2	SCH CORE	BS	3	0	2	0	4	5	
2		Flexi Core-3	FLEXI CORE	FC	3	0	2	0	4	5	
3		Professional Elective-4	DEP ELEC	PE	3	0	0	0	3	3	NIL
1		Professional Elective-5	DEP ELEC	PE	3	0	0	0	3	3	NIL
5		Professional Elective-6	DEP ELEC	PE	3	0	0	0	3	3	NIL
,	19IE3247	Term Paper	SCH CORE	PR	0	0	4	0	2	4	NIL
,	19UC3206	Campus to Corporate	UNI CORE	HS	0	0	4	0	2	4	NIL
3	19TS4004	SKILLING FOR ENGINEERS-4	SCH CORE	SK	0	0	0	4	1	1	NIL
)	19TS4006	TECHNICAL PROFICIENCY & TRAINNING-2	SCH ELEC	SK	0	0	0	4	1	4	14117
		Total	JOETT EEEC	J DIK	15	0	12	8	23.0	32	
		SEMESTER-	7		1.57	U	12	0	23,0	32	
1		Open Elective-I	UNI ELEC	OE	3	0	0	0	3	3	NII.
2		Open Elective-2	UNI ELEC	OE	3	0	0	0	3	3	NIL
3		Open Elective-3	UNI ELEC	OE	3	0	0	0	3	3	NIL
1	19UC0007	Indian Heritage and Culture	UNI CORE	HS	0	0	0	0	0	0	NIL
5	19UC0008	Indian Constitution	UNI CORE	HS	2	0	0	0	0	2	NIL
5	19IE4048/19IE4050	Project (Part I) / Practice School	SCH CORE	PR	0	0	12	0	6	12	NIL
	17121010101000	Total	SCITCORE		11	0	12	0	15.0	23	INIL
		SEMESTER-	8		11	U	12	U	15.0	23	
		Foreign/Non-Native Language Elective	UNI ELEC	OE	2	0	0	0	2	2	NIL
		Management Elective	UNI ELEC	OE	3	0	0	0	3	3	
	19UC0010	Universal Human Values & Professional Ethics	UNI CORE	HS	2	0	0	0	0	2	NIL
	19UC0010	Enterpreneurship	UNI CORE	HS	2	0	0	0	2		NIL
	19UC0001	Ecology & Environment	SCH CORE	HS	2	0	0	0	0	2	NIL
-	19BT1001	Biology for Engineers	SCH CORE	BS		-				2	NIL
,	191E4048/191E4050	Project (Part II) / Practice School/ Internship		PR	0	0	0 12	0	0	2	NIL
-	17104040/17104030		SCH CORE	PK		-		0	6	12	NIL
		Total			13	0	0	0	13.0	13	
		00.110	TOTAL	101	90	7	98	128	167.5	321	

HOD-CCE

DEAN-ACADEMICS

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KLEF Dept. of Electronics and Communication Engineering M. Tech VLSI AY. 2020-21

		Semester-I					
S. No.	Course Code	Course Title		Per	iods		0 13
S. NO.	Course Code	Course Title	L	Т	P	S	Credits
1	20 EC 5128	MOS Circuit Design	3	1	2	0	5
2	20 EC 5129	Analog IC Design & Design for Testability	2	2	2	0	5
3	20 EC 5130	ASIC & FPGA Design	3	0	2	0	4
4	20 EC 5131	IC Fabrication Technology	3	0	0	0	3
5		Elective – 1	3	0	0	0	3
6		Elective - 2	3	0	0	0	3
7	20 IE 5149	Seminar	0	0	4	0	2
8	20 TS 5101	Technical Skilling-I (HDL)	0	0	0	8	2
		Total	17	3	10	8	27
		Semester-II					
S. No.	Course Code	Course Title		Per	iods		Credits
			L	Т	P	S	Cicuits
1		RF IC Design & Introduction to mm RADAR	3	1	2	0	5
2	20 EC 5233	Low power VLSI System Design	3	0	2	0	4
3	20 EC 5234	Algorithm for VLSI Design Automation	3	1	2	0	5
4	20 EC 5235	Testing of VLSI Circuits	3	0	0	0	3
5		Elective – 3	3	0	0	0	3
6		Elective - 4	3	0	0	0	3
7	20 IE 5250	Term Paper	0	0	4	0	2
8	20 TS 5102	Technical Skilling-II (Design for Testability)	0	0	0	8	2
		Total	18	2	10	8	27
		Semester-III&IV					
S. No.	Course Code	Course Title		Per	iods		Credits
3, 110.	Course Code	Course Title	L	Т	P	S	Credits
1	20 IE 6050	Dissertation	0	0	72	0	36
		Total Program Credits					90
				_	<u> </u>		
S. No.	Course Code	Course Title	-	_	iods	10	Credits
Elective	e-1		L	Т	P	S	
1		Embedded System Design	3	0	0	0	3
2		VLSI Signal Processing	3	0	0	0	3
3		CMOS Mixed Signal Circuits	3	0	0	0	3
4		Nano Electronics	3	0	0	0	3
5		CAD Tools for VLSI	3	0	0	0	3
lective		CITE 100/3 101 Y 201		0			<u> </u>
1		Deep learning with Artificial Intelligence	3	0	0	0	3
2		Bi-CMOS Technology & Applications	3	0	0	0	3
3		Semiconductor Device Modeling	3	0	0	0	3
4		Memory Design and Testing	3	0	0	0	3
5		VLSI Circuits for Biomedical Applications	3	0	0	0	3

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Electiv	re-3						
1	20 EC 52S1	System on Chip Design	3	0	0	0	3
2	20 EC 52S2	VLSI Data Converters	3	0	0	0	3
3		MEMS System Design	3	0	0	0	3
4	20 EC 52S4	VLSI for Wireless Communication	3	0	0	0	3
5	20 EC 52S5	Reconfigurable Computing	3	0	0	0	3
Electiv	e-4						
1	20 EC 52T1	Optimization Techniques and Applications in VLSI Design	3	0	0	0	3
2	20 EC 52T2	Advanced Digital IC Design	3	0	0	0	3
3	20 EC 52T3	Network on Chip	3	0	0	0	3
4	20 EC 52T4	Cryptography and Network Security	3	0	0	0	3
5	20 EC 52T5	Advanced Computer Architecture Design	3	0	0	0	3

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Dept. of Electronics and Communication Engineering M. Tech RADAR & Communications AY. 2020-21

		A1. 2020-21					
		Semester-I					
S. No.	Course Code	Course Title		Credits			
0, 110,	Course Code		L	Т	Р	S	Credits
1	20 EC 5101	Modern Digital and Wireless Communication	3	1	2	0	5
2	20 EC 5102	Microwave and Millimetric wave Circuits	3	1	2	0	5
3	20 EC 5103	RADAR Engineering & mm Radar	3	0	0	0	3
4	20 EC 5104	RF System and Antenna Design	3	1	0	0	4
5		Elective – 1	3	0	0	0	3
6		Elective - 2	3	0	0	0	3
7	20 IE 5149	Seminar	0	0	4	0	2
8	20 TS 5201	Technical Skilling-I (MatLab*, AWR*)	0	0	0	8	2
		Total	18	3	8	8	27
		Semester-II	***			-	
S. No.	Course Code	Code Course Title	Periods				C
5, 140,	Course Code	Course Title	L	Т	Р	S	Credits
1	20 EC 5205	4G, 5G, and Modern Wireless Technologies	3	1	2	0	5
2	20 EC 5206	Advanced Communication Systems & Networks	3	0	2	0	4
3	20 EC 5207	Modern Radar Systems and Autonomous Vehicles	3	1	0	0	4
4	20 EC 5208	Optical Networks & Satellite Communications	3	0	0	0	3
5		Elective – 3	3	0	0	2	3.5
6		Elective - 4	3	0	0	2	3.5
7	20 IE 5250	Term Paper	0	0	4	0	2
8	20 TS 5202	Technical Skilling-II (MatLab*, AWR*)	0	0	0	8	2
		Total	18	2	8	10	27
		Semester-III&IV	155				
S. No.	No. Course Code Course Title				iods		Credits
ים. ואט	Course Code	Course Title	L	Т	Р	S	Credits
1	20 IE 6050	Dissertation	0	0	72	0	36
		Total Program Credits					90

S. No.	Course Code Course Title		Per		Credits		
5, 140,		Course Title	L	T	P	S	Credits
Elective	e-1					-	
1	20 EC 51A1	EMI/EMC & Electronic Warfare	3	0	0	0	3
2	20 EC 51A2	Microwave Semi Conductor Devices	3	0	0	0	3
3	20 EC 51A3	Smart Antennas	3	0	0	0	3
4	20 EC 51A4	Embedded Systems & VLSI for Wireless Communic	3	0	0	0	3
Electiv	e-2						
1	20 EC 51B1	Phased Array Systems	3	0	0	0	3
2	20 EC 51B2	GPS & Global Navigation Satellite System	3	0	0	0	3
3	20 EC 51B3	Next Generation Networking & Communication Tec	3	0	0	0	3
4	20 EC 51B4	Deep learning with Artificial Intelligence	3	0	0	0	3
Elective	e-3	**					
1	20 EC 52C1	Estimation & Detection Theory	3	0	0	0	3
2	20 EC 52C2	Radar Signal Processing & System	3	0	0	0	3
3	20 EC 52C3	High Performance Communication Networking	3	0	0	0	3
4	20 EC 52C4	Cryptography & Networking Security	3	0	0	0	3
Electivo	e-4						
1	20 EC 52D1	Machine Learning & Soft Computing Applications i	3	0	0	0	3
2	20 EC 52D2	Cloud Computing & Cyber Security	3	0	0	0	3
3	20 EC 52D3	Remote Sensing & Sensors	3	0	0	0	3
4		Automotive Electronics & Avionics	3	0	0	0	3

