S.D.M College of Engineering and Technology Department of Electronics and Communication Engineering

Date: 23-3-2023

Circular

All th	neD	PGC	members are h	ereby informed to	o attend the
			_meeting _. scheduled on _	23-3-2023 at _	3 PM
in	HOD	Room			

Agenda: Finalization of subjects to be offered for M. Tech in Electric Vehicle technology from ECE Dept.

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HOD, ECE

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(Promotori-Otomorod-200 002)



SDM College of Engineering & Technology, Dharwad-02 <u>Department of Electronics & Communication Engineering</u>

Name o	the Committee: DPGC		
Meeting	called by: HOD (chairman of DPGC)		
	Date: 23-3-23 Time 3 Pm Ver	nue: Hod	chamber
	Agenda	,	,
	Finalization of subjects to be offered	tor M	.Tech
	in EV Technology from ECE Dept.		3
	3.4		
\.			
	Minutes of Meeting		
Agenda	Details / Decisions/ Resolutions	Target	Member to follow
No.		Date	up
1,	In the 1st sementar M. Tech, Dept is offer	ing	
- 1	1 de la langer al core cubient	and I'	
	syllabor, colpo attainment as per UT	s format	DPGC
	is tinalized.		cms)
		d Embed	dod (/m)
2,	In the Elective 2 group, microcontrollers	21001	3719
	I am and in Flethire 3 a row	A-IVI L	Lowise
	has been finalized and syllabor is made	as per VI	Jana 3
3,	in the 2 d sementer mitem in Ev Techo	ri, lotas	Lverhide
-51	communication course (core) has been tine	rzed.	
	Members Present:		
	BY		cianotura

Name signature SI. signature Name Sl. No. No. SA JOK Vijaya C S. C. Saijan Hemalak B Jayapres N S. V. Viraktamath

SDMCET: Syllabus Scheme of Teaching and Examinations – 2023 M. Tech., Electric Vehicle Technology (EVT)

I Semester M.Tech.

		Teaching	Teaching			Examination	on .	
Course		1	9	CIE	Theo	Theory (SEE)	Practic	Practical (SEE)
Code	Course Title		Credits	Мах.	*Max.	Duration	Max.	Duration
		(ris./week)		Marks	Marks	in hours	Marks	in hours
22PRIC100	Research Methodology & IPR	3-0-0	3	50	100	3	•	•
22PEVC100	Applied Mathematics	4-0-0	4	20	100	က	•	
22PEVC101	Advanced Electric Machines and Drives	3-2-0	4	20	100	en .		
22PEVC102	22PEVC102 Automotive Technology	4-0-0	4	20	100	က		ı
22PEVEXXX	Elective 1	4-0-0	4	20	100	က		
22PEVL103	Electric Vehicle drives and control systems Lab	0-0-3	2	50	ı		50	က
22PEVL104	Seminar	0-0-2	-	50		,	1	
	Total	18-2-5	22	350	200	÷115	20	

CIE: Continuous Internal Evaluation

SEE: Semester End Examination

T: Tutorials L: Lecture

P: Practical

*SEE for theory courses is conducted for 100 marks and reduced to 50 marks.

Degree.

^{**} Classes and evaluation procedures are as per the policy prescribed for online courses by the respective organizations and PP is a must for the award of the

Seminar is to be conducted every week and 2-3 students/week will present a topic from emerging areas in respective PG program preferably the contents not studied in their regular courses. The seminar shall be evaluated by 3 faculty members having specialization in respective program and allied areas.

Course CodeElective 122PEVE110Vehicle Dy22PEVE111Energy Sto

Syllabus

Scheme of Teaching and Examinations - 2023 M. Tech., Electric Vehicle Technology (EVT) II Semester M. Tech.

		The Labour State of the La	7.7			Examinance	5	
		eaching	2	ш Ж	Theor	Theory (SEE)	Pract	Practical (SEE)
Course		O I))			MASY	Duration
Gode		.	Credits	Max.	*Max.	Duration	Max.	
		(Hrs./Week)		Marks	Marks	in hours	Marks	in hours
			_	50	100	3	•	1
22PEVC200	lo I and Venicle Communication	0-0-1	t	3				
22PEVC201	Modelling & Simulation of EV	3-2-0	4	20	100	3	•	•
22PEVEXXX		3-0-0	က	20	100	3	•	ı
22051/5	1	3-0-0	cr.	50	100	က	•	,
ZZFEVEXXX			,	3				
22PEVEXXX	Elective 4	3-0-0	3	20	100	3	•	•
22PEVL202	Battery Management system for EV - Simulation Lab	0-0-3	7	20	ı	•	20	8
22PEVL203	Seminar	0-0-2	-	20	•	•	•	•
	Total	16-2-5	20	350	500		50	

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Seminar is to be conducted every week and 2-3 students/week will present a topic from emerging areas in respective PG program preferably the contents not studied in their regular courses. The seminar shall be evaluated by 3 faculty members having specialization in respective program and allied areas.

7 17	Elective 4	
		22PEVE214

S.D.M College of Engineering and Technology **Department of Electronics and Communication Engineering**

Date: 10-5-2023

Circular

All the	DPGC	members are	hereby informed t	o attend the
Scheme	- / syllaby	meeting scheduled on		
in	op room			
	Finalizat	oon of scheme/syllal	y for M. Tech	in Digital Fleur
Agenda :	for me	acedemic year 202	2-23,	
*	(AS per on	line course for M-tech (DE) approval r	elated meeting
	hard an	17-3-2023)	%- × •	

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HOD, ECE

Prof. & Hassi Dept.nl Mostrodas & Occasion—Res Singl "Mr. Onlings of Beginnesing & Vasionshore Research Historical 2010 (992)



SDM College of Engineering & Technology, Dharwad-02 <u>Department of Electronics & Communication Engineering</u>

		•		
Name of	the Committee:	DPGC		
THE RESERVE TO SHARE THE PARTY OF THE PARTY	called by:	HOD (chairman of ppoic)		
	Date: 10-5-23		aoH :sur	Room
		Agenda		
	Zinalszahion	of scheme syllabor for r	n. Tech in	(Disibul
	Electronics)	for the acedemic year 2022	-23	ð
-	Ref:	- Bos meeting held on 17-	3-2023)	
· .				
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			,	
	·	Minutes of Meeting		
Agenda	, D4	etails / Decisions/ Resolutions	Target	Member
No.		, and a production of the contract of the cont	Date	to follow
NO.				up
1.	Audit co	owses from 1th and 2th semental		
1.	has then s	hitted to IVM seneta and		
	Par ha	ecommended online courses for		
				DPGC
2.	Lastead o	Linternship, 3rd sem per students		(MS)
7,	ATR CHEAR	med to take an dept offended ele	etive.	
3.		15-0	1	,
.5+	completed	on or before commencement of	4 m senua	
A .	The DRAC	has insisted to choose the		
tę.	60.1:00 60	wses only from NATEL.		
	OD-1111E CO			

Members Present:

Sl.	Name .	signature	Sl.	Name	signature
No.			No.		
1	S A Joke	化	15		
2	Vijaya C	1010	16		
3	c c covian		17		
4	Hemalaka B Tayashree N S V Viraktemath	My,	18		
5	Tay out hree N	145	19		
6	S V Virak Hemath	-(8).	20		
7			21		
8			22 .		
9	-		23		
10	:		24		
11			25	•	
12			26		
13			27		
14			28		

Scheme for III Semester

		Tieachi	na			Examina	tiom	
Course	, Comse	L⊨T∃P	9	CIE	Tiheon	y (SEE)	Practic	ରୀ (ସେଅଟ).
Code	πue	. ((l\times/) W/eelk()	elibeno	Marks Marks	Marks Marks	நின் வணியி செர்தா	Wayke Max	्राजीका। ज्ञान्त्रीता
22PDEC300	VLSI for Signal Processing	4-0-0	4	50	100	3		
22PDEE35X	Elective 5	3-0-0	3 ^	50	100	3		
22PDEE35X	Elective 6	3-0-0	3,	50	100	3		
22PDEE35X		4-0-0	(4)	50	100	3		
T			OR					
22PDEL300	**Internship in Industry or R&D organization	Min 4 weeks during vacation after 2 nd sem	4 .	50	, <u></u> ,		100	3
22PDEL301	***Project Phase-I	0-0-6	6	50	Market Street Street		50	3
Tot	al :	14-0-6/10- 4 weeks-6	20	250	400/ 300		50/150 (01di)	

						- ,
		٦ [22PDEE350~	Advances in VLSI Design 4	4.	j.
		3	22PDEE351	Error Control Coding 3	14	on the contract of the
	Λ		22PDEE352	Wireless Sensor Networks	3	s
		Ì	22PDEE353	Image and Video Processing ろ	1.7	- 4
		1	22PDEE354	Advanced DSP A	3	. `
, ,-		-	22PDEE355	Block Chain Technology	3	
\bigcirc	P		22PDEE356	Advanced Computer Architecture 3	3	
	(4	22PDEE357	Real Time Operating Systems	3	4
		Ľ		T. J. Eveningtion		

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**Internship: The students are expected to undergo training in industry for a period of four weeks during the vacation immediately after completion of II Semester examination. A faculty is to be allotted to guide the A committee consisting of three faculty members shall evaluate the work carried out and the the students have acquired. OR students can take one elective course if they do not undergo

Phase-I: The students are expected to formulate the problem and carry out the intensive literature preliminary investigations supporting the project phase-II in IV semester.

Scheme for IV Semester

		· Tiesc	hing			≭લાાાાલ	ton	die
Code 1	Course Title	(Hræ/ (Hræ/	Credits	OIE.	DESTRUCTION OF THE PARTY OF THE	теоту (1881)		icifical NBE)
		Week)	17.3	Mens Mense		न्त्रभावता सम्बद्धाः सम्बद्धाः		त्त्वाक्ष्याण्डा स्वयन्त्रीत्तो.
22PDEL400	**Project Phase-II	0-0-22	18	100			100	3
22PDEEOA1	***BOS recommended ONLINE course	-	Audit (PP)	-	-	-	-	-
22PDEEOA2	***BOS recommended ONLINE course	-	Audit (PP)	-	-	-	-	-
	Total	0-0-22	18	100	-		100	

CIE: Continuous Internal Evaluation

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- SEE for theory courses is conducted for 100 marks and reduced to 50 marks.
- ** Project Phase-II: The students are expected to work on a project for the full semester in an industry or an institution
- *** Classes and evaluation procedures are as per the policy prescribed for online courses by the institution.

Total Credits offered for the first year: 42
Total Credits offered for the Second year:38

Scheme for I Semester

		Treaching,			Examination				
Course Code	Course Tille	L-114P ((Hirs/Week))		GIE Max Marks	(S Max	eory (EE) Duration in hours	Mers	in hous	
22PRIC100	Research	0.00	0	50	100	3			
	Methodology and IPR	3-0-0	3	50	100	3			
22PDEC100	Applied Mathematics	4-0-0	4	50	100	3			
22PDEC101	Sequential Machines and Fault Analysis	4-0-0	4	50	100	3			
22PDEC102	Digital System Design Using Verilog	4-0-0	4	50	100	3	,		
22PDEE15X	Elective 1	4-0-0	4	50	100	3	,		
22PDEL101	Digital Circuits Simulation Laboratory	0-0-3	2	50			50	3	
22PDEL102	Seminar	0-0-2	1 .	50					
	rotal	19-0-5	22	350	500		50		

Elective 1

22PDEE150	Introduction to Artificial Intelligence & Machine Learning
22PDEE151	IoT Applications
22PDEE152	Nano Electronics

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Scheme for II Semester

Sourse	Coinse iille "	i Teaching			Examination				
Code:		CFILT]	allend	OJE	Theory (See)		Predical (SEE)		
				Mex. Marks		त्व्यक्तिमध्ये स्वम्ब्यक्तीमा		- Duration जाजीता	
Z2PDEC200	Digital VLSI Design	4-0-0	4	50	100	3	III illine massinih irinim	A Manual Comment of the Comment of t	
z2PDEC201	Embedded System Design	4-0-0	4	50	100	3			
PDEE25X	Elective 2	3-0-0	3	50	100	3			
PDEE25X	Elective 3	3-0-0	3	50	100	3			
PDEE25X	Elective 4	3-0-0	3	50	100	3			
23PDEL201	VLSI and Embedded Systems Laboratory	0-0-3	2	50		,	50	3	
PDEL202	Seminar	0-0-2	1	50		*	,		
	Total:	17-0-5	20	350	500		50	· P	

Electives 2 to 4

22PDEE250	Parallel Computing
22PDEE251	Low Power Circuits and Systems
22PDEE252	Data Compression
22PDEE253	Artificial Neural Networks and Deep Learning
22PDEE254	Cryptography
22PDEE255	Wireless Communication Networks
22PDEE256	Micro Electro Mechanical Systems

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