

Sri Venkateswara College of Engineering

Department of Electronics and Communication Engineering

Value Added Course on VD18702 - Signal Processing using Simulation tool

Circular

12/09/2020

As per R2018 regulation, it is planned to conduct a value added course for III Year ECE students on the subject VD18702 - Signal Processing using Simulation tool. Phase I is scheduled for 5 days from 14/09/2020 to 18/09/2020, Phase II from 05/10/2020 to 10/10/2020 and phase III from 30/11/2020 to 04/12/2020 with a total of 30 hours. The course plan, test procedure, attendance are followed as per the recommendations of R 2018. It is highly recommended that the students grab this opportunity and get benefitted out of it.

The syllabus for the same has been formulated and circulated to students. The eminent speakers from outside the campus and various departments are invited to give lectures on topics from the syllabus.



HoD/ECE
Dr.S.Muthukumar

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

VALUE ADDED COURSE

VD 18702-SIGNAL PROCESSING USING SIMULATION TOOL

Agenda

S.no.	Date	Name of the Speaker	Designation & Address	Topic
1	14/09/2020	Ms.D.Menaka,Ms.S.Kalyani, Ms.L.Anju	AP,ECE,SVCE	Guideless for how to use MATLAB 2020 online version,MATLAB language fundamentals,Usage of MATLAB scripts and functions.
2	15/09/2020	Mr.Vikram Kumar	Science communicator, www.bharathiscrpt.com	Time domain and frequency domain analysis of signals,Filtering and noise removal using MATLAB
3	16/09/2020	Mr.P.Vikram Kumar	Science communicator, www.bharathiscrpt.com	Stability Analysis,System response with pole zero locations,Application of filtering and denoising to speech,audio and image signals,FIR and IIR system analysis with MATLAB
4	17/09/2020	Mr.D.Rajkumar	Application Engineer,Designtech systems	Image Processing with MATLAB,Object detection and tracking,Real world applications,MATLAB user story on Image Processing
5	18/09/2020	Mr.Suraj Gawande	Senior Engineer,Designtech systems	Signal Processing applications using MATLAB,Latest features of signal processing toolbox,Wireless system design using MATLAB,Key requirements for todays wireless signal research and development .
6	05/10/2020	R.Kousalya B.Sarala	Assistant Professor	Symmetric cryptography using MATLAB,Symmetric cipher,Ceaser cipher,Implementation of encryption and decryption algorithms using MATLAB

7	06/10/2020	Dr.R.Gayathri	Associate Professor	Biometric authentication and its applications- Biometric characteristics and its identifiers, Multimodal biometric authentication, Palm print recognition system, Government, Forensic and commercial applications.
8	07/10/2020	Dr.N.Rajeswari	Associate Professor	Neural Networks and its applications, Design of a simple NN using MATLAB.
9	08/10/2020	K.Srividhya	Assistant Professor	Wireless communication using MATLAB- Types of channels, Analysis of Fading channel, Diversity, Diversity combining, MIMO system, DOA Estimation
10	12/10/2020	K.S.Subhashini	Assistant Professor	GUI using MATLAB, ThinkSpeak IOT platform with MATLAB analytics, Humidity, dew point calculation and traffic signal monitoring using thingspeak.
11	30/11/2020	V.Rajalakshmi	Assistant Professor	Introduction to Python
12	01/12/2020	Dr.N.Rajeswari	Associate Professor	Machine Learning classifiers using Python
13	02/12/2020	Dr. R.Jayabhaduri	Associate Professor	Machine Learning using Python- Hands on session : Introduction to computer vision, Computer vision with python
14	03/12/2020	M.Vidya	Assistant Professor	Speech Processing using Python
15	04/12/2020	Mr. Sandeep Kumar Ramani,	ECE Alumni, MS in UW Madison.	Audio signal Classification using python

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SIGNATURE OF HOD/ECE

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

VALUE ADDED COURSE

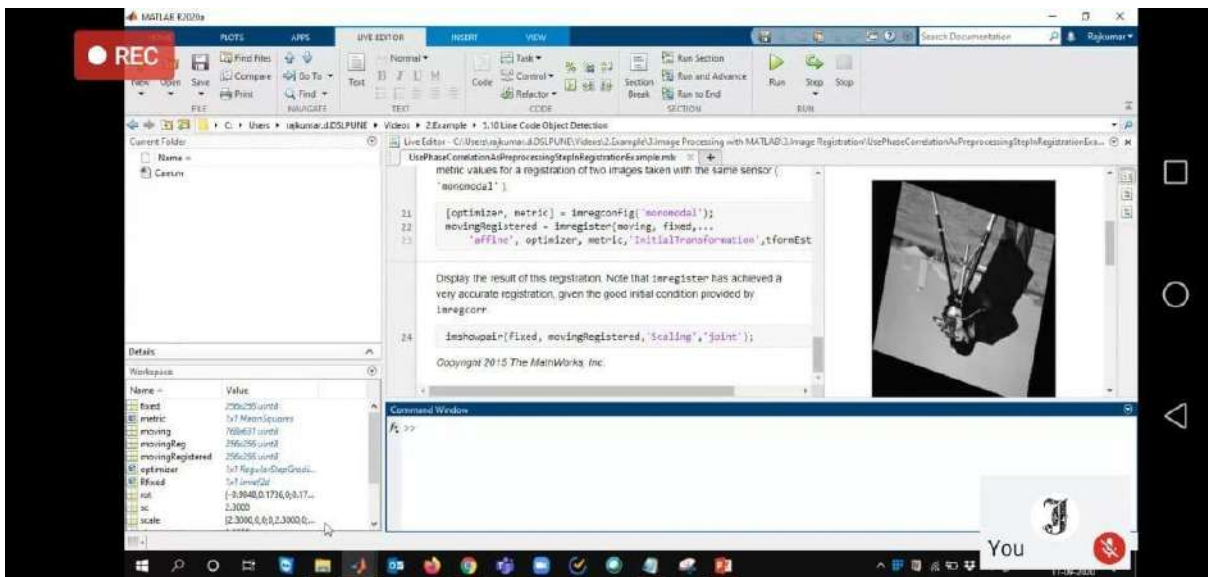
VD 18702-SIGNAL PROCESSING USING SIMULATION TOOL

REPORT

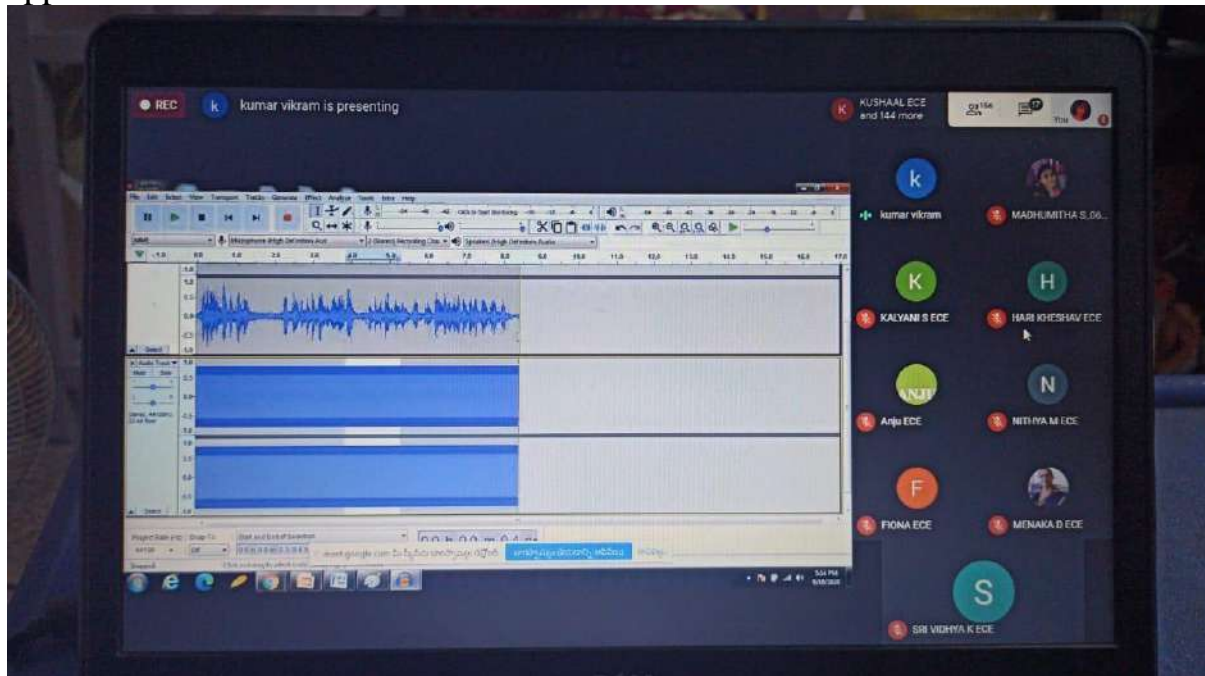
Value added courses are mandatory for students as per the recommendations of the Regulation 2018. Accordingly one such course, VD 18702 Signal Processing Using Simulation Tool is identified suitable for the current pre final year students and hence it was finalized to be offered to them.

The course with weightage of credit 2, duration 30hrs was planned in three phases of 10 hrs each from 14/09/2020 to 18/09/2020, 05/10/2020 to 10/10/2020 and 30/11/2020 to 04/12/2020.

Phase I started with Introduction and motivation with strong basics of MATLAB programming laid down by Ms.D.Menaka, Asst Prof/ECE, Ms.S.Kalyani, Asst Prof/ECE and Ms.L.Anju, Asst Prof/ECE. It was followed by sessions from Mr.VikramKumar Pingli, who dealt about Filtering, Noise removal, FIR/IIR systems and Stability. Mr.Rajkumar, Application Engineer, Design Tech systems dealt on image processing using MATLAB. The first phase concluded with the session handled by Mr.Suraj Gawande, Senior Engineer, Designtech systems, who discussed on specialised toolkits and applications.



Phase II started with the session on Crptography using MATLAB suggesting MATLAB based encryption and decryption procedures by Ms.R.Kousalya,Asst Prof/ECE and Ms.B.Sarala,Asst Prof/ECE.It was followed by a session from Dr.R.Gayathri,Asso Prof/ECE,who dealt about Biometric Characterisation and Authentication along with few applications.Dr.N.Rajeswari, Asso Prof/CSE introduced the concept of Neural Networks and its construction and analysis using MATLAB.The session on MATLAB based Wireless communication by Ms.K.Srividhya,Asst Prof/ECE,gave an insight on modeling the various channels,concept of fading,Diversity reception,Diversity combining,Smart Antennas,DOA Estimation and MIMO systems.The second phase concluded with the session handled by Ms.K.S.Subhashini, Asst Prof/ECE,who discussed on GUI using MATLAB,Thinkspeak IOT platform with MATLAB analytics, calculation and traffic signal monitoring using Thinkspeak,along with few real time applications as well.



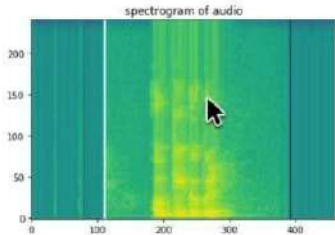
Phase III started with the Introductory session on Python as a strong foundation for the rest of the sessions. The session was handled by Ms.V.Rajalakshmi,Asst Prof/CSE.It was followed by a session from Dr.N.Rajeswari,Asso Prof/ECE,who dealt about Machine Learning Classifiers along with few applications based on Python. Dr.R.Jayabhaduri,Asso Prof/CSE gave an insight into Machine Learning and Computer vision using Python.The students understanding was strengthened by hands on session too. The session on Speech Processing using Python by Ms.M.Vidya,Asst Prof/ECE,gave an understanding on modeling and analysis of the various speech processing aspects and systems.The third phase concluded with the session handled by Mr.Sandeep Kumar Ramani, Research Scholar at University of Madison,and also our alumnus,who connected to us from abroad,discussed on Audio signal classification using Python.

Spectrogram

```
In [7]: log_spect = np.log(get_spectrogram(data))
print('spectrogram shape:', log_spect.shape)
plt.imshow(log_spect, aspect='auto', origin='lower',)
plt.title('spectrogram of audio')
plt.show()

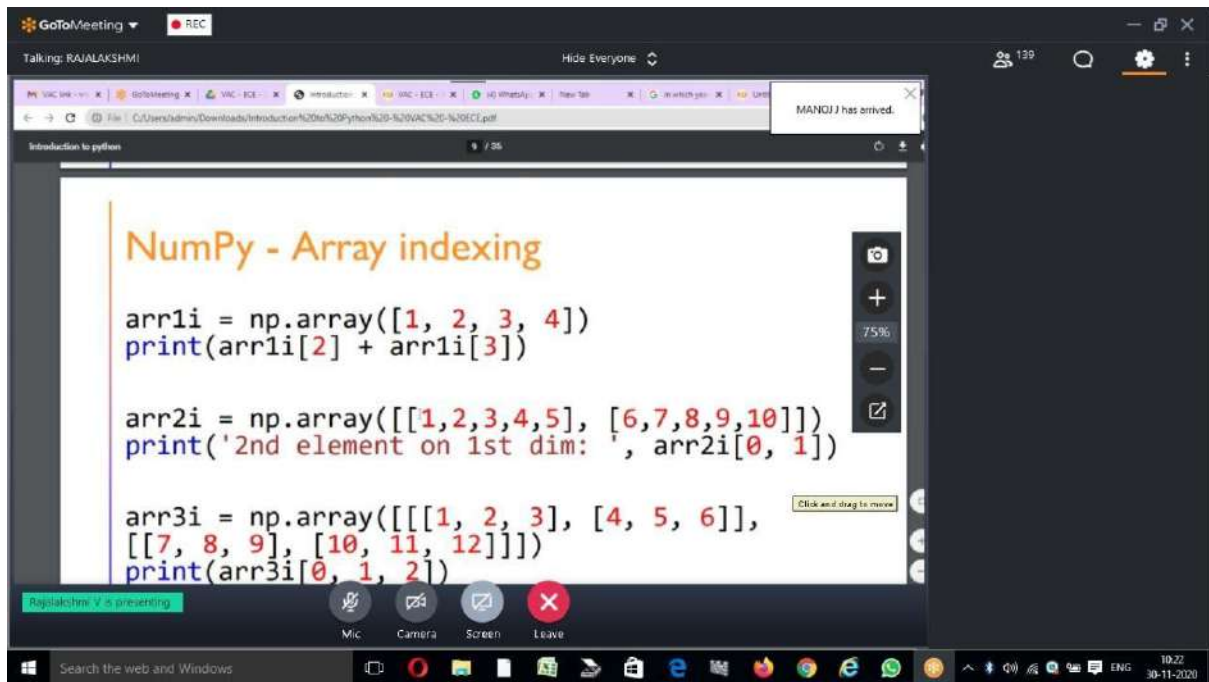
D:\anaconda\lib\site-packages\ipykernel_launcher.py:1: RuntimeWarning: divide by zero encountered in log
"""Entry point for launching an IPython kernel.
```

spectrogram shape: (241, 462)



Melspectrogram





Apart from informative lectures, also focused on effective and Efficient Hands on sessions in both MATLAB and Python. all the speakers took much effort in making the students work with the tools, in parallel and clarified all aspects.

The course inculcated interests among the participants who seem to have gained much knowledge which could be noted from their feedback.

The course was very well planned and conducted in virtual mode benefitting 157 students. The course was well organized and coordinated by Ms.D.Menaka, Asst Prof/ECE, Ms.K.Srividhya, Asst Prof/ECE, Ms.S.Kalyani, Asst Prof/ECE and Ms.L.Anju, Asst Prof/ECE and Mr.M.K.Varadarajan, Asst Prof/ECE.

The value added course was hence a grand success.

Signature of HOD-ECE

Signature of Organiser

SRI VENKATESWARA COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
VALUE ADDED COURSE ON
VD18702-SIGNAL PROCESSING USING SIMULATION TOOL

S.NO	REGISTER NUMBER	NAME
1	180701001	AARSHIK.B
2	180701002	ABINAYA B
3	180701003	ABIRAMI K
4	180701004	ADITYA S
5	180701005	AFIAH BANU.H
6	180701006	AMALAN VALLIAPPAN M P
7	180701007	ARAVINDRAJ.A
8	180701009	ARUN SUBBIAH.SP
9	180701010	ARVIND. D
10	180701011	ASHWIN KUMAR M
11	180701012	R.ASWINE
12	180701013	BALA AKASH
13	180701014	BALAJI.R
14	180701015	BALAJI S
15	180701016	BHARATHKUMAR J
16	180701018	BOOMICA P
17	180701019	BUVANESH S
18	180701020	CHILAKA SAI DEEKSHITH
19	180701021	DEEPAK KUMAR S
20	180701022	M. DEEPAK SHIVAVEL
21	180701023	E.DEEPIKA
22	180701024	DEVI PRIYA. B
23	180701027	FIONA J P J
24	180701028	GANESH B
25	180701029	GAYATHRI C
26	180701030	S K HARI KHESHAV
27	180701031	HARIHARA KUMAR SA
28	180701032	HARRSHAVARDHAN P
29	180701033	HARSHA LEKHA R
30	180701034	HARSHITHAH KS
31	180701035	HASHINI S
32	180701036	INDHUMATHI V
33	180701037	ISHWARYA L A
34	180701038	JAI JISHNESH V

35	180701040	JANANI.A
36	180701041	JEEVAHARISH ECE
37	180701042	JEEVAPRASAD.P
38	180107043	JEFEE.M.M
39	180701044	JEGAN K
40	180701045	JERUSHA G
41	180701046	B.KAMALAKANNAN
42	180701047	KANDIKATTU DEEPAK
43	180701048	C.KANISHKA
44	180701049	C.KARTHIKEYAN
45	180701050	KAVITHA ECE
46	180701051	KEERTHANA.B
47	180701052	KEERTHANA.G
48	180701053	A. KESHICA
49	180701054	KRISH ANAND. S
50	180701055	KRITIKA AGRAWAL
51	180701056	KRUTHIKA.J
52	180701057	S KULANDAIYAN
53	180701058	KUSHAAL
54	180701059	LAKSHAN.K
55	180701060	MADHAVRAM R
56	180701061	MADHUMITHA S
57	180701062	V. MADHUMITHA
58	180701063	D MANIMARAN
59	180701064	MANOJ.J
60	180701065	S. MANU RENGANATHAN
61	180701066	T.MARIYA BALA ITHRISHA
62	180701067	M. MOHAMMED SAHIL
63	180701068	MONICA.R
64	180701069	P.MYTHREYAN
65	180701070	NANDHINI.J
66	180701072	C A NAVEEN PRASAD
67	180701073	NIRAIMADI S
68	180701074	NIRANJAN.R
69	180701075	NIRANJAN.S
70	180701076	NITHYA. M
71	180701077	S. NITHYA
72	180701079	NIVEDHA M
73	180701080	PAGADALA CHARITH KUMMAR REDDY

74	180701081	PALLAVI R
75	180701082	PARTHASARATHI T
76	180701083	POOJA M
77	180701084	R.POOJA
78	180701085	PRABAKAR SK
79	180701086	PRABHU S S
80	180701087	PRATHIBHA SUSHMA N.V
81	180701088	PRAVIN K.S
82	180701089	S.PREETHIKA
83	180701090	R.PREMKUMAR
84	180701091	PRIYA DAESHINI S
85	180701092	RAAJESH BAABU S
86	180701093	RAGHAVAN R
87	180701094	RAGHAVI.S
88	180701095	RAHUL B
89	180701096	RAHUL NARAYANAN
90	180701097	RALLAPALLI UDAYASRI
91	180701098	RESHMI JAYARAJAN
92	180701099	RISHABANATH K
93	180701100	RISHI KUMAR R
94	180701101	SABARISH SUBRAMANIAM A.V
95	180701102	S SAI SANTHOSH
96	180701103	SAISARAVANAN.P.K
97	180701104	R. SANGEETHA
98	180701105	SANJANA.B.S
99	180701106	SANJAY P S
100	180701107	SARANYAA.M
101	180701108	SATHAPPAN K
102	180701109	SATHYA .B
103	180701110	SESHADRI. N
104	180701111	V.SHABARISH HAREN
105	180701112	N.SHAILESH KRISHNAN
106	180701113	A.SHALINI
107	180701114	SHIVAGANESHAN.K
108	180701115	SHRIHARI.S
109	180701116	SHRUTHI ELANCHEZHIAN
110	180701117	SIDDHARTH
111	180701118	M.SIVASOORIYA
112	180701119	S.SREEHARI

113	180701120	SRI NATARAJ
114	180701122	SRIHARI K
115	180701123	SRIMATHI S
116	180701124	SRIRAM
117	180701125	SRIVANTH GANESH ECE
118	180701126	A.SRIVARSHINI
119	180701127	RK SUBASH KANNAN
120	180701128	A.SUBHA PRIYA
121	180701129	SUDHARSAN K
122	180701130	SUDHARSANA. S
123	180701131	SUSHMITHA S R
124	180701132	SUWETHA K
125	180701133	S.SWETHA
126	180701134	SWETHA S
127	180701135	H TAMIL SELVAN
128	180701136	TEJASWATH
129	180701137	M.THANIGAIVEL
130	180701138	T. THIVYA
131	180701139	UKKESH P.B
132	180701140	VARUN SOMAN
133	180701141	VIDHYA.N
134	180701142	VIGNESH M
135	180701143	VIGNESH T.J
136	180701144	VIGNESHWAR SJ
137	180701145	VIJAY BABU .B
138	180701146	J VIJAY MUTHU RAJA
139	180701147	VIJAY SOORYA ECE
140	180701148	VINDHIYA S
141	180701149	VISHNUKUMAR Y
142	180701150	VISHNUSAI R
143	180701151	VISHNUVARADHAN M
144	180701152	VISHWESH PV
145	180701153	YASHWANTH B
146	180701154	YASHWIN VASANTH S
147	180701155	YOGESH G
148	180701156	YUKESH ADITIYA.P.S
149	180701301	MOGULLURU SOMA KRISHNA DATTUDU
150	180701302	POOJA.R
151	180701303	RAGHUL.G

152	180701304	SANJAY KUMAR S
153	180701305	SHAMEER T
154	180701306	K SIVASAKTHI
155	180701307	SOMESH P.S
156	180701308	VIGNESHWARA S
157	180701701	ANIRUDDH AIYENGAR



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SIGNATURE OF HOD/ECE


SRI VENKATESWARA COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
VALUE ADDED COURSE ON
VD18702-SIGNAL PROCESSING USING SIMULATION TOOL
ATTENDANCE

Sl.No	Name of the Student	Register No.	Sessions attended	Attended Hours(30)	%
1	AARSHIK.B				
2	Abinaya B	180701001	14	28	93.33
3	ABIRAMI K	180701002	14	28	93.33
4	Aditya S	180701003	15	30	100.00
5	Afiah banu.H	180701004	15	30	100.00
6	AMALAN VALLIAPPAN M P	180701005	15	30	100.00
7	Aravindraj.A	180701006	15	30	100.00
8	Arun Subbiah.SP	180701007	15	30	100.00
9	ARVIND. D	180701009	15	30	100.00
10	ASHWIN KUMAR M	180701010	14	28	93.33
11	R.ASWINE	180701011	15	30	100.00
12	Bala Akash	180701012	15	30	100.00
13	balaji.R	180701013	15	30	100.00
14	Balaji S	180701014	15	30	100.00
15	BHARATHKUMAR J	180701015	15	30	100.00
16	BOOMICA P	180701016	15	30	100.00
17	Buvanesh S	180701018	15	30	100.00
18		180701019	15	30	100.00
18	Chilaka Sai Deekshith	180701020	15	30	100.00
19	DEEPAK KUMAR S	180701021	15	30	100.00
20	M. Deepak Shivavel	180701022	15	30	100.00
21	E.DEEPIKA	180701023	15	30	100.00
22	Devi Priya. B	180701024	13	26	86.67
23	FIONA J P J	180701027	15	30	100.00
24	Ganesh B	180701028	15	30	100.00
25	GAYATHRI C	180701029	15	30	100.00
26	S K HARI KHESHAV	180701030	15	30	100.00
27	HARIHARA KUMAR SA	180701031	12	24	80.00
28	HARRSHAVARDHAN P	180701032	12	24	80.00
29	HARSHA LEKHA R	180701033	14	28	93.33
30	HARSHITHAH KS	180701034	12	24	80.00
31	HASHINI S	180701035	15	30	100.00
32	INDHUMATHI V	180701036	15	30	100.00
33	ISHWARYA L A	180701037	15	30	100.00
34	JAI JISHNESH V	180701038	13	26	86.67
35	JANANI.A	180701040	15	30	100.00
36	jeevavarish ece	180701041	14	28	93.33
37	Jeevapasrad.P	180701042	15	30	100.00


38	Jefee.M.M	180107043	15	30	100.00
39	JEGAN K	180701044	15	30	100.00
40	JERUSHA G	180701045	15	30	100.00
41	B.kamalakkanan	180701046	15	30	100.00
42	KANDIKATTU DEEPAK	180701047	15	30	100.00
43	c.kanishka	180701048	15	30	100.00
44	C.KARTHIKEYAN	180701049	15	30	100.00
45	KAVITHA ECE	180701050	12	24	80.00
46	Keerthana.B	180701051	15	30	100.00
47	Keerthana.G	180701052	15	30	100.00
48	A. Keshika	180701053	12	24	80.00
49	Krish Anand. S	180701054	14	28	93.33
50	KRITIKA AGRAWAL	180701055	15	30	100.00
51	Kruthika.J	180701056	15	30	100.00
52	S KULANDAIYAN	180701057	15	30	100.00
53	Kushaal	180701058	14	28	93.33
54	Lakshan.K	180701059	14	28	93.33
55	Madhavram R	180701060	14	28	93.33
56	Madhumitha S	180701061	15	30	100.00
57	V. Madhumitha	180701062	15	30	100.00
58	D MANIMARAN	180701063	14	28	93.33
59	MANOJ.J	180701064	15	30	100.00
60	S. Manu Renganathan	180701065	14	28	93.33
61	T.MARIYA BALA ITHRISHA	180701066	15	30	100.00
62	M. Mohammed sahil	180701067	15	30	100.00
63	Monica.R	180701068	15	30	100.00
64	P.Mythreyan	180701069	15	30	100.00
65	Nandhini.J	180701070	15	30	100.00
66	C A NAVEEN PRASAD	180701072	13	26	86.67
67	NIRAIMADI S	180701073	15	30	100.00
68	NIRANJAN.R	180701074	14	28	93.33
69	Niranjan.S	180701075	15	30	100.00
70	NITHYA. M	180701076	15	30	100.00
71	S. Nithya	180701077	15	30	100.00
72	NIVEDHA M	180701079	15	30	100.00
73	pagadala charith kummar Reddy	180701080	14	28	93.33
74	Pallavi R	180701081	15	30	100.00
75	PARTHASARATHI T	180701082	15	30	100.00
76	Pooja M	180701083	15	30	100.00
77	R.Pooja	180701084	15	30	100.00
78	Prabakar SK	180701085	15	30	100.00
79	Prabhu s s	180701086	14	28	93.33
80	PRATHIBHA SUSHMA N.V	180701087	14	28	93.33

81	Pravin K.S				
82	S.Preethika	180701088	14	28	93.33
83	R.Premkumar	180701089	13	26	86.67
84	Priya Daeshini S	180701090	13	26	86.67
85	Raajesh Baabu S	180701091	12	24	80.00
86	RAGHAVAN R	180701092	13	26	86.67
87	RAGHAVI.S	180701093	14	28	93.33
88	RAHUL B	180701094	14	28	93.33
89	Rahul Narayanan	180701095	14	28	93.33
90	RALLAPALLI UDAYASRI	180701096	14	28	93.33
91	RESHMI JAYARAJAN	180701097	13	26	86.67
92	Rishabanath K	180701098	14	28	93.33
93	RISHI KUMAR R	180701099	14	28	93.33
94	Sabarish Subramaniam A.V	180701100	14	28	93.33
95	S SAI SANTHOSH	180701101	13	26	86.67
96	SAISARAVANAN.P.K	180701102	14	28	93.33
97	R. Sangeetha	180701103	14	28	93.33
98	Sanjana.B.S	180701104	14	28	93.33
99	SANJAY P S	180701105	14	28	93.33
100	Saranyaa.M	180701106	14	28	93.33
101	Sathappan k	180701107	14	28	93.33
102	SATHYA .B	180701108	13	26	86.67
103	Seshadri. N	180701109	14	28	93.33
104	V.SHABARISH HAREN	180701110	14	28	93.33
105	N.Shailesh Krishnan	180701111	14	28	93.33
106	A.Shalini	180701112	13	26	86.67
107	Shivaganeshan.K	180701113	14	28	93.33
108	Shrihari.s	180701114	12	24	80.00
109	Shruthi Elanchezhian	180701115	14	28	93.33
110	Siddharth	180701116	14	28	93.33
111	M.Sivasooriya	180701117	14	28	93.33
112	s.sreehari	180701118	13	26	86.67
113	Sri nataraj	180701119	14	28	93.33
114	srihari K	180701120	12	24	80.00
115	SRIMATHI S	180701122	15	30	100.00
116	Sriram	180701123	13	26	86.67
117	SRIVANTH GANESH ECE	180701124	14	28	93.33
118	A.Srivarshini	180701125	12	24	80.00
119	RK Subash Kannan	180701126	14	28	93.33
120	A.Subha Priya	180701127	14	28	93.33
121	Sudharsan K	180701128	14	28	93.33
122	Sudharsana. S	180701129	13	26	86.67
123	SUSHMITHA S R	180701130	14	28	93.33
124	Suwetha K	180701131	14	28	93.33
		180701132	14	28	93.33

125	S.Swetha	180701133	14	28	93.33
126	Swetha S	180701134	13	26	86.67
127	H TAMIL SELVAN	180701135	14	28	93.33
128	Tejaswath	180701136	14	28	93.33
129	M.Thanigaivel	180701137	14	28	93.33
130	T. Thivya	180701138	14	28	93.33
131	Ukkesh P.B	180701139	14	28	93.33
132	varun soman	180701140	12	24	80.00
133	Vidhya.N	180701141	14	28	93.33
134	Vignesh M	180701142	14	28	93.33
135	Vignesh T.J	180701143	14	28	93.33
136	Vigneshwar SJ	180701144	13	26	86.67
137	VIJAY BABU .B	180701145	12	24	80.00
138	J Vijay muthu Raja	180701146	12	24	80.00
139	VIJAY SOORYA ECE	180701147	12	24	80.00
140	VINDHIYA S	180701148	12	24	80.00
141	VISHNUKUMAR Y	180701149	12	24	80.00
142	Vishnusai R	180701150	12	24	80.00
143	Vishnuvaradhan M	180701151	12	24	80.00
144	Vishwesh PV	180701152	12	24	80.00
145	Yashwanth B	180701153	12	24	80.00
146	Yashwin Vasanth S	180701154	12	24	80.00
147	yogesh G	180701155	12	24	80.00
148	YUKESH ADITIYA.P.S	180701156	12	24	80.00
149	MOGULLURU SOMA KRISHNA DATTUDU	180701301	12	24	80.00
150	POOJA.R	180701302	12	24	80.00
151	Raghul.G	180701303	12	24	80.00
152	Sanjay kumar s	180701304	12	24	80.00
153	SHAMEER T	180701305	12	24	80.00
154	K SIVASAKTHI	180701306	12	24	80.00
155	Somesh p.s	180701307	12	24	80.00
156	VIGNESHWARA S	180701308	12	24	80.00
157	Aniruddh Aiyengar	180701701	12	24	80.00


Signature of co-ordinator

HOD-ECE


Signature of HOD-ECE
(Dr.S.Muthukumar)



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OFFICE OF THE CONTROLLER OF EXAMINATIONS
Provisional Result of End Semester Examination - DEC-20

Branch Code / Name : EC - B.E. Electronics and Communication Engineering

Semester : 05

S. No.	Registration No.	Student Name	EC18009				EC18501				EC18502				EC18503				EC18504				EC18511				EC18512				GE18551				HS18561				VC18005				VD18702				EC / RC	GPA																
			Int	Ext	Tot	Grd	Int	Ext	Tot	Grd	Int	Ext	Tot	Grd	Int	Ext	Tot	Grd	Int	Ext	Tot	Grd	Int	Ext	Tot	Grd	Int	Ext	Tot	Grd	Int	Ext	Tot	Grd	Int	Ext	Tot	Grd	Int	Ext	Tot	Grd	Int	Ext	Tot	Grd			Int	Ext	Tot	Grd												
46	180701051	KEERTHANA B	43	41	84	A+	47	29	76	A	47	45	92	O	48	44	92	O	45	38	83	A+	70	25	95	O	69	23	92	O	56	-	56	A	53	21	74	A					-	0	-	0	P				-	-	-	-	-	-	-	-	-	-	-	-	28 / 28	9.21
47	180701052	KEERTHANA G	43	41	84	A+	47	40	87	A+	48	40	88	A+	48	44	92	O	43	43	86	A+	66	18	84	A+	66	22	88	A+	71	-	71	A+	54	21	75	A					-	0	-	0	P				-	-	-	-	-	-	-	-	-	-	-	-	28 / 28	9.07
48	180701053	KESHIKA A	43	43	86	A+	47	41	88	A+	47	42	89	A+	49	38	87	A+	46	44	90	A+	66	20	86	A+	60	18	78	A	65	-	65	A+	62	21	83	A+					-	0	-	0	P				-	-	-	-	-	-	-	-	-	-	-	-	28 / 28	8.93
49	180701054	KRISH ANAND S	42	41	83	A+	48	41	89	A+	48	39	87	A+	49	45	94	O	46	44	90	A+	63	24	87	A+	63	23	86	A+	76	-	76	A+	60	20	80	A					-	0	-	0	P				-	-	-	-	-	-	-	-	-	-	-	-	28 / 28	9.07
50	180701055	KRITIKA AGRAWAL	43	43	86	A+	47	39	86	A+	46	46	92	O	49	46	95	O	47	45	92	O	71	25	96	O	61	23	84	A+	78	-	78	A+	66	22	88	A+					-	0	-	0	P				-	-	-	-	-	-	-	-	-	-	-	-	28 / 28	9.50
51	180701056	KRUTHIKA J	42	43	85	A+	47	40	87	A+	46	45	91	O	49	44	93	O	47	46	93	O	65	22	87	A+	57	20	77	A	67	-	67	A+	59	20	79	A					-	0	-	0	P				-	-	-	-	-	-	-	-	-	-	-	-	28 / 28	9.29
52	180701057	KULANDAIYAN S	43	39	82	A+	49	41	90	A+	47	43	90	A+	49	46	95	O	46	44	90	A+	75	25	100	O	65	22	87	A+	71	-	71	A+	60	20	80	A					-	0	-	0	P				-	-	-	-	-	-	-	-	-	-	-	-	28 / 28	9.14
53	180701058	KUSHAAL P L	42	41	83	A+	47	34	81	A+	48	43	91	O	49	44	93	O	46	41	87	A+	67	22	89	A+	58	19	77	A	66	-	66	A+	67	23	90	A+					-	0	-	0	P				-	-	-	-	-	-	-	-	-	-	-	-	28 / 28	9.21
54	180701059	LAKSHAN K	42	38	80	A	47	38	85	A+	46	39	85	A+	49	44	93	O	45	44	89	A+	67	24	91	O	65	17	82	A+	61	-	61	A+	60	20	80	A					-	0	-	0	P				-	-	-	-	-	-	-	-	-	-	-	-	28 / 28	9.04
55	180701060	MADHAVRAM R	36	42	78	A	44	40	84	A+	48	40	88	A+	48	44	92	O	46	44	90	A+	61	15	76	A	58	15	73	A	60	-	60	A+	63	21	84	A+					-	0	-	0	P				-	-	-	-	-	-	-	-	-	-	-	-	28 / 28	8.89
56	180701061	MADHUMITHA S	43	43	86	A+	49	34	83	A+	49	46	95	O	50	46	96	O	47	45	92	O	74	24	98	O	69	23	92	O	80	-	80	A+	67	23	90	A+					-	0	-	0	P				-	-	-	-	-	-	-	-	-	-	-	-	28 / 28	9.57
57	180701062	MADHUMITHA V	47	46	93	O	50	41	91	O	49	50	99	O	49	48	97	O	47	45	92	O	74	25	99	O	70	24	94	O	75	-	75	A+	69	23	92	O					-	0	-	0	P				-	-	-	-	-	-	-	-	-	-	-	-	28 / 28	9.89
58	180701063	MANIMARAN D	42	41	83	A+	48	43	91	O	48	42	90	A+	49	45	94	O	45	43	88	A+	72	18	90	A+	67	22	89	A+	65	-	65	A+	57	19	76	A					-	0	-	0	P				-	-	-	-	-	-	-	-	-	-	-	-	28 / 28	9.21
59	180701064	MANOJ J	44	44	88	A+	47	43	90	A+	48	46	94	O	49	46	95	O	47	46	93	O	68	23	91	O	64	20	84	A+	75	-	75	A+	62	21	83	A+					-	0	-	0	P				-	-	-	-	-	-	-	-	-	-	-	-	28 / 28	9.50
60	180701065	MANU RENGANATHAN S	44	42	86	A+	44	38	82	A+	48	41	89	A+	49	46	95	O	46	43	89	A+	71	24	95	O	55	19	74	A	65	-	65	A+	63	21	84	A+					-	0	-	0	P				-	-	-	-	-	-	-	-	-	-	-	-	28 / 28	9.14



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Provisional Result of End Semester Examination - DEC-20

Branch Code / Name : EC - B.E. Electronics and Communication Engineering

Semester : 05

Table with columns: S. No., Registration No., Student Name, EC18009, EC18501, EC18502, EC18503, EC18504, EC18511, EC18512, GE18551, HS18561, VC18005, VD18702, EC / RC, GPA. Rows include students like MARIYA BALA ITHRISHA T, MOHAMMED SAHIL M, MONICA R, etc.



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Branch Code / Name : EC - B.E. Electronics and Communication Engineering

Semester : 05

Table with columns: S. No., Registration No., Student Name, EC18009, EC18501, EC18502, EC18503, EC18504, EC18511, EC18512, GE18551, HS18561, VC18005, VD18702, EC / RC, GPA. Rows list student details and exam results for 20 students.



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Semester : 05

Table with columns for S. No., Registration No., Student Name, and various subject codes (EC18009, EC18501, etc.) with sub-columns for Int, Ext, Tot, Grd. Includes final EC/RC and GPA columns.

Table with Subject Name column listing subjects like EC18009 - Medical Electronics, EC18501 - Digital Communication, etc.