Department of Electronics & Communication Engineering

Minutes of the meeting of the Board of Studies held on **02-07-2018** at **10:30am.**

The following members were present:

SL.No	Members Present	Designation	Signature
1.	Mr. M. Shashidhar Assoc. Prof, Head, ECE Dept, VCE, Warangal	Chairman	
2.	Prof. M. AshaRani , ECE. Dept.	JNTUH Nominee	
3.	Dr. T. Kishore Kumar, Professor, ECE Dept. NIT, Warangal	Subject Expert	
4.	Prof. P. Prasad Rao VEC, Principal, Warangal	Subject Expert	
5.	Mr. P. Rohit, CEO, Suhrud Applab Private limited, Warangal	Industry Representative	
6.	Mr. N. Kiran, JTO BSNL	Postgraduate Alumni	
7.	Mr. K. Srinath, Jr Engg, NPDCL	Postgraduate Alumni	
8.	Dr. Nishu Gupta, Asst. Prof, ECE Dept, VCE, Warangal	Member	
9.	Dr. Jitesh Ramdas Shinde, Asst. Prof, ECE Dept, VCE, Warangal	Member	

The following decisions are taken:

1. Approved the course structure for B. Tech. I,II, III & IV Years under R18 regulation.
2. Approved the syllabi of B.Tech. (R18-regulation) for I-Year I and II Semesters.
3. Approved the course structure and syllabus for M.Tech (VLSI System Design & WMC) under R18-regulation
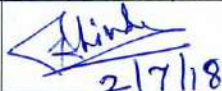
(Chairman-BOS)

Department of Electronics & Communication Engineering

Minutes of the meeting of the Board of Studies held on **02-07-2018** at **10:30am.**

The following members were present:

SL.No	Members Present	Designation	Signature
1.	Mr. M. Shashidhar Assoc. Prof, Head, ECE Dept, VCE, Warangal	Chairman	
2.	Prof. M. AshaRani , ECE. Dept.	JNTUH Nominee	
3.	Dr. T. Kishore Kumar, Professor, ECE Dept. NIT, Warangal	Subject Expert	
4.	Prof. P. Prasad Rao VEC, Principal, Warangal	Subject Expert	
5.	Mr. P. Rohit, CEO, Suhrud Applab Private limited, Warangal	Industry Representative	
6.	Mr. N. Kiran, JTO BSNL	Postgraduate Alumni	
7.	Mr. K. Srinath, Jr Engg, NPDCL	Postgraduate Alumni	
8.	Dr. Nishu Gupta, Asst. Prof, ECE Dept, VCE, Warangal	Member	
9.	Dr. Jitesh Ramdas Shinde, Asst. Prof, ECE Dept, VCE, Warangal	Member	

The following decisions are taken:

1. Approved the course structure for B. Tech. I,II, III & IV Years under R18 regulation.
2. Approved the syllabi of B.Tech. (R18-regulation) for I-Year I and II Semesters.
3. Resolved to follow previous regulation(R15) for PG Program.

(Chairman-BOS)

VAAGDEVI COLLEGE OF ENGINEERING
Autonomous
Bollikunta, Warangal

B.TECH. ELECTRONICS & COMMUNICATION ENGINEERING

COURSE STRUCTURE
(R18 Regulations applicable for the batches admitted from Academic Year 2018-19)

I SEMESTER (First Year)

S.No.	Subject code	Subject	L	T	P	Credits
1	B18MA01	~~Mathematics-I~~ (linear Algebra & calculus)3	3	1	0	4
2	B18CS01	Programming for Problem Solving	4	0	0	4
3	B18PH01	Applied Physics	4	0	0	4
4	B18EN01	English	2	0	0	2
5	B18PH02	Physics Lab (Applied physics lab)	0	0	3	1.5
6	B18ME02	Engineering Workshop & IT Workshop	0	0	3	1.5
7	B18CS02	Programming for Problem Solving Lab	0	0	2	1
8	B18MC01	National Service Scheme	0	0	2	0
		Total Credits				18

II SEMESTER (First Year)

S.No.	Subject code	Subject	L	T	P	Credits
1	B18MA02	~~Mathematics-II~~ (Differential equation & vector calculus)	3	1	0	4
2	B18CH01	Engineering Chemistry	3	1.	0	4
3	B18ME01	Engineering Graphics	1	0	4	3
4	B18EE46	Electrical circuits	3	0	0	3
5	B18EC01	Electronic Devices and Circuits	3	0	0	3
6	B18EC02	Electronic Devices and Circuits Lab	0	0	2	1
7	B18EN02	English language & Communication Skills Lab	0	0	2	1
8	B18MC02	Environmental ~~Studies~~ Sciences	0	0	2	0
		Total Credits				19

1) (M. shashidhar)
2) (M. Asha Rani)
3) (DR T. KISHORE KUMAR)
4) (Dr. P. Prasad Rao)
5) (Dr. Nielu Gupta)
6) (Dr. J.R. Shinde)

VAAGDEVI COLLEGE OF ENGINEERING
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B.TECH. ELECTRONICS & COMMUNICATION ENGINEERING

COURSE STRUCTURE
(R18 Regulations applicable for the batches admitted from Academic Year 2018-19)

III SEMESTER (Second Year)

S.No.	Subject code	Subject	L	T	P	Credits
1		Complex Variable & Numerical Methods	3	1	0	4
2		Signals and systems	3	1	0	4
3		Electronic Circuits Analysis	3	1	0	4
4		Switching Theory and Logic Design	3	0	0	3
5		Electrical Technology	3	0	0	3
6		Electronic Circuits Analysis Lab	0	0	2	1
7		Simulation Lab	0	0	2	1
8		Python Scripting Language	0	0	2	1
		Total Credits				**21**

IV SEMESTER (Second Year)

S.No.	Subject code	Subject	L	T	P	Credits
1		Pulse and Digital Circuits	3	1	0	4
2		Electromagnetic Theory and Transmission Lines.	3	1	0	4
3		Analog Communications & Digital Communications	3	1	0	4
4		Probability Theory and Stochastic Process	3	0	0	3
5		Computer Organization	3	0	0	3
6		Pulse and digital circuits Lab	0	0	2	1
7		Electrical Technology Lab	0	0	2	1
8		Analog Communications & Digital Communications lab	0	0	2	1
		Total Credits				**21**

1) (M. Shashidhar)
2) (M. Ashafani)
3) (DR. T. KISHORE KUMAR)
4) (Dr. P. Prasad Rao)
5) (Dr. Nishu Gupta)
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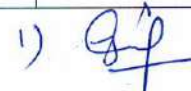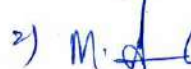
B.TECH. ELECTRONICS & COMMUNICATION ENGINEERING

COURSE STRUCTURE
(R18 Regulations applicable for the batches admitted from Academic Year 2018-19)

V SEMESTER (Third Year)

S.No.	Subject code	Subject	L	T	P	Credits
1		Linear & Digital IC Applications	3	1	0	4
2		Digital Signal Processing	3	0	0	3
3		Computer Networks	3	0	0	3
4		**Professional Elective-I** Control Systems Telecommunication Switching Systems & Networks OOPS Through JAVA	3	0	0	3
5		Managerial Economics & Financial Analysis	3	0	0	3
6		LDIC Lab	0	0	3	1.5
7		Digital Signal Processing Lab	0	0	2	1
8		Computer Networks Lab	0	0	3	1.5
		Total Credits				20

VI SEMESTER (Third Year)

S.No.	Subject code	Subject	L	T	P	Credits
1		Microprocessors & Microcontrollers	3	1	0	4
2		VLSI Design	3	0	0	3
3		Antennas & Wave Propagation	3	1	0	4
4		**Professional Elective-II** Bio Medical Instrumentation Data Communication Networks Digital Image Processing	3	0	0	3
5		**Professional Elective-III** Radar Systems Digital Signal Processor & Architecture Real Time Operating Systems	3	0	0	3
6		VLSI & e-CAD Lab	0	0	2	1
7		Microprocessors & Microcontrollers Lab	0	0	2	1
8		Advanced English Communication skills lab	0	0	2	1
		Total Credits				20

1) (M. Shasthidhae)

2) (M. AshaRani)

3) (DR. T. KISHORE KUMAR)

4) (Dr. P. Prasad Rao)

5) (Dr. Nishu Gupta)

6) (Dr. J. R. Shinde)

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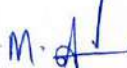
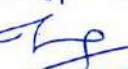## B.TECH. ELECTRONICS & COMMUNICATION ENGINEERING

COURSE STRUCTURE
(R18 Regulations applicable for the batches admitted from Academic Year 2018-19)

VII SEMESTER (Fourth Year)

S.No.	Subject code	Subject	L	T	P	Credits
1		Microwave Engineering	3	0	0	3
2		Embeded Systems Design	3	0	0	3
3		**Professional Elective-IV** Cellular Mobile Communication FPGA Architecture & Applications Artificial Intelligence	3	0	0	3
4		**Professional Elective-V** Information Theory & Coding Satellite Communication Speech processing	3	0	0	3
5		**Open Elective – I**	3	0	0	3
6		Microwave Engineering Lab	0	0	2	1
7		Embeded Systems Design Lab	0	0	2	1
8		Mini Project and Internship	0	0	0	2
9		Project Stage—I phase –I	0	0	8	4
		Total Credits				23

VIII SEMESTER (Fourth Year)

S.No.	Subject code	Subject	L	T	P	Credits
1		**Professional Elective-VI** Fiber Optical Communications Low power VLSI Design Internet of Things	3	0	0	3
2		**Open Elective – II**	3	0	0	3
3		**Open Elective – III**	3	0	0	3
4		Technical Seminar	0	0	2	1
5		Project Stage—II phase –II	0	0	16	8
		Total Credits				18

1) (M. Shashidhar)

2) M.A.Rai (M. Asha Rani)

3) (DR. T. KISHORE KUMAR)

4) (Dr. P. Prasad Rao)

5) Gupta (Dr. Nishu Gupta)

6) Shinde (Dr. J. R. Shinde)

VAAGDEVI COLLEGE OF ENGINEERING
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B.TECH. ELECTRONICS & COMMUNICATION ENGINEERING .

COURSE STRUCTURE
(R18 Regulations applicable for the batches admitted from Academic Year 2018-19)

List Of Open Electives

1. DBMS
2. Power Plant Engineering
3. Disaster Management
4. Cloud Computing
5. Entrepreneurship Development
6. Air Pollution Control
7. Robotics
8. Power Semi Conductor Drives
9. Industrial Electronics
10. Intellectual Property Rights
11. Machines Learning

1) _(signature)_ (M. Shashidhar)

2) M.A.Ra. (M. Asha Rani)

3) _(signature)_ (DR. T. KISHORE KUMAR)

4) _(signature)_ (Dr. P. Prasad Rao)

5) _(signature)_ (Dr. Nishu Gupta)

6) _(signature)_ (Dr. J. R. Shinde)

VAAGDEVI COLLEGE OF ENGINEERING
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M.TECH. (VLSI System Design)

COURSE STRUCTURE
(R18 Regulations applicable for the batches admitted from Academic Year 2018-19 onwards)
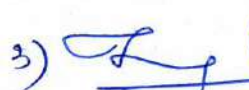
I Semester (First Year)

S.No.	Subject code	Subject	L	T	P	Credits
1	M18VL01	CMOS Digital Integrated Circuit Design	3	0	0	3
2	M18VL02	CMOS Analog Integrated Circuit Design	3	0	0	3
3	M18VL03 M18VL04 M18VL05	**Program Elective-I** Digital System Design using HDL VLSI Signal Processing VLSI Technology	3	0	0	3
4	M18VL06 M18VL07 M18VL08	**Program Elective-II** Algorithms For VLSI Design Automation Embedded System Design Device Modeling	3	0	0	3
6	M18AC01	English For Research Paper Writing	2	0	0	0
7	M18MC01	Research Methodology	2	0	0	2
8	M18VL09	HDL Programming Laboratory	0	0	4	2
9	M18VL10	Digital IC Design Laboratory	0	0	4	2
		Total Credits				**18**

II Semester (First Year)

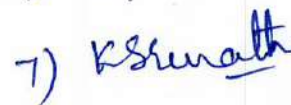| S.No.	Subject code	Subject	L	T	P	Credits
1	M18VL11	CMOS Mixed Signal Circuit Design	3	0	0	3
2	M18VL12	VLSI Design Verification and Testing	3	0	0	3
3	M18VL13 M18VL14 M18VL15	**Program Elective-III** Low Power VLSI Design Optimization Technique In VLSI Design High Speed VLSI Design	3	0	0	3
4	M18VL16 M18VL17 M18VL18	**Program Elective-IV** ASIC Design System On Chip Architecture Semiconductor Memory Design & Testing	3	0	0	3
5	M18AC02	Stress Management	2	0	0	0
6	M18VL19	Analog IC Design Laboratory	0	0	4	2
	M18VL20	Mixed Signal VLSI Laboratory	0	0	4	2
7	M18VL21	Mini Project/ Internship	2	0	0	2
		Total Credits				**18**

1) M. Sheshidhr

2) (M. ASHA RANI)

3) (Dr. T. Kishore Kumar)

4) (Dr. P. Prasad Rao)

5)

6)

7) K Srinath

8) Dr. Nishu Gupta

9) Dr. J. R Shinde

VAAGDEVI COLLEGE OF ENGINEERING
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M.TECH. (VLSI System Design)

COURSE STRUCTURE
(R18 Regulations applicable for the batches admitted from Academic Year 2018-19 onwards)

III SEMESTER (Second Year)

S.No.	Subject code	Subject	L	T	P	Credits
1	M18VL22 M18VL23 M18VL24	**Program Elective-V** High Speed VLSI Architectures for DSP Applications Nano materials & Nano Technology RF Circuit Design	3	0	0	3
2	M18CS12 M18MA02 M18CE27	**Open Elective** Soft Computing Techniques Graph Theory & Optimization Techniques Waste Management	3	0	0	3
3	M18VL25	Dissertation Phase – I	0	0	20	10
		Total Credits				16

IV SEMESTER (Second Year)

S.No.	Subject code	Subject	L	T	P	Credits
1	M18VL26	Dissertation Phase – II	0	0	32	16
		Total Credits				16

1) M. Shashidhar

2) M. A. lei

3)

4)

5)

6)

7) K Srinath

8) Gupta Dr. Nishu Gupta

9) Shinde Dr. J. R. Shinde,

VAAGDEVI COLLEGE OF ENGINEERING
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M.Tech (Wireless and Mobile Communications)

COURSE STRUCTURE
(R18 Regulations applicable for the batches admitted from Academic Year 2018-19 onwards)

I Semester (First Year)

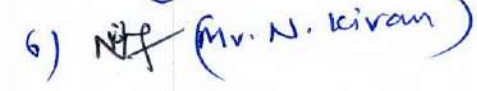| S.No.	Subject code	Subject	L	T	P	Credits
1.	M18WM01	Advanced Data Communications	3	0	0	3
2.	M18WM02	Coding Theory and Techniques	3	0	0	3
3.		**Program Elective-I**	3	0	0	3
	M18WM03	Spread Spectrum Communication				
	M18WM04	Detection & Estimation Theory				
	M18WM05	Stochastic Process & Time Domain Analysis				
4.		**Program Elective-II**	3	0	0	3
	M18WM06	Voice Over Internet Protocol				
	M18WM07	Internetworking				
	M18WM08	GPS and Applications				
5.	M18AC01	English For Research Paper Writing	2	0	0	0
6.	M18MC01	Research Methodology	2	0	0	2
7.	M18WM09	Advanced Communications Laboratory	0	0	4	2
8.	M18WM10	Wireless Communications Network Laboratory Laboratory	0	0	4	2
		Total Credits				18

II Semester (First Year)

S.No.	Subject code	Subject	L	T	P	Credits
1.	M18WM11	Advanced Digital Signal Processing	3	0	0	3
2.	M18WM12	Wireless Communications	3	0	0	3
3.		**Program Elective-III**	3	0	0	3
	M18WM13	Advanced Communications and Networks				
	M18WM14	Embedded System Design				
	M18WM15	Optical Communications Technology				
4.		**Program Elective-IV**	3	0	0	3
	M18WM16	Wireless MIMO Communication				
	M18WM17	Wireless LANs and PANs				
	M18WM18	Software Defined Radio				
5.	M18AC02	Stress Management	2	0	0	0
6.	M18WM19	Formatting and Analysis Laboratory	0	0	4	2
7.	M18WM20	Simulation Laboratory	0	0	4	2
8.	M18WM21	Mini Project/ Internship	2	0	0	2
		Total Credits				18

1) M. Shashidhar

2) M.A.Lei (M. Asha Rani)

3) (Dr. T. Kishore Kumar)

4)

5)

6) (Mr. N. Kiran)

7) K.Srinath

8) Gupta Dr. Nishu Gupta

9) Shinde Dr. J. R. Shinde

VAAGDEVI COLLEGE OF ENGINEERING
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M.Tech (Wireless and Mobile Communications)

COURSE STRUCTURE
(R18 Regulations applicable for the batches admitted from Academic Year 2018-19 onwards)

III SEMESTER (Second Year)

S.No	Subject code	Subject	L	T	P	Credits
1	M18WM22 M18WM23 M18WM24	**Program Elective-V** 4G & 5G Technologies Mobile Computing Technologies Adhoc and Wireless Sensor Networks	3	0	0	3
2	M18CS05 M18MA01 M18CE27	**Open Elective** Scripting Languages Advanced Optimization Techniques Waste Management	3	0	0	3
3	M18WM25	Dissertation Phase – I	0	0	20	10
		Total Credits				**16**

IV SEMESTER (Second Year)

S.No.	Subject code	Subject	L	T	P	Credits
1	M18WM26	Dissertation Phase – II	0	0	32	16
		Total Credits				**16**

1) M. Shashidher

2) M.A.Lei (M.Asha Pani)

3)

4)

5)

6)

7) K Shivath

8) Dr. Nishu Gupta

9) Dr. J. R. Shinde