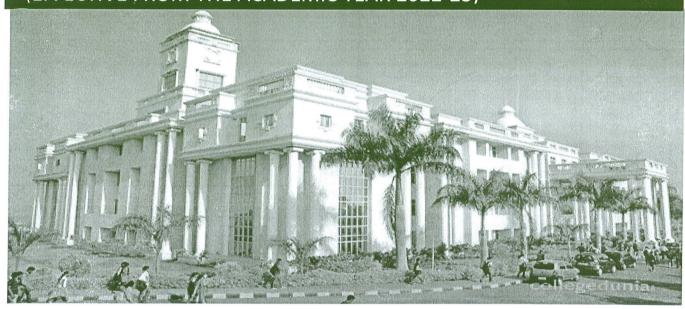


ECE -2022 SCHEME (III -VIII SEMESTER)

(EFFECTIVE FROM THE ACADEMIC YEAR 2022-23)



GLOBAL ACADEMY OF TECHNOLOGY

(Autonomous institution affiliated to VTU, Belagavi.
Accredited by NAAC with 'A' grade,
NBA Accredited CS, E&C, E&E, MECH, CV and IS branches)
Ideal Homes Township,
Raja Rajeshwari Nagar, Bengaluru-560098

HEAD OF THE DEPARTMENT

Ocpt. of Electronics & Communication Eng.

Global Academy of Technology

Rajarajeshwarinagar, Bangalore - 98.

H. Dean Academic
Global Academy of Technology,
Rajarajeshwarinagar, Bengalimi-98



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B.E. in Electronics and Communication Engineering Scheme of Teaching and Examinations 2022 Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2022-23)

III Semester



		7	6	Q	4	ω	2	₽		SI.
IOIdi		22ECEL37	22ECE36	22ECE35	22ECE34	22ECE33	22ECE32	22MAT31E		Course
	To	Digital System Design Laboratory	Sensors and Instrumentation	Object Oriented Programming using C++	Network Analysis	Design and Analysis of Digital Circuits	Analog Electronic Circuits	Transforms, Complex Variables and Special Functions		Course Title
	Total	PCL	AEC	ESC/ETC/PLC	PC	PC	IPC	BS		Course Туре
				Respective Department				MAT		Teaching Dept.
		0	ω	2	2	ω	ω	2	Pro	Н
		0	0	0	2	0	0	2	1	Teaching Hours/Week
		2	0	2	0	0	2	0	٥	e d
	350	50	50	50	50	50	50	50	CIE	
	350	50	50	50	50	50	50	50	SEE	Examination
	700	100	100	100	100	100	100	100	Total	ation
	20	1	ω	ω	ω	ω	4	ω		Credits

Professor and Hon M. Tech, Ph.D

Professor and HOD

Department of Electronics and Communication Engg.

Clobal Academy of Technology

Bengaluru-98

Glopa Academy of Technology, Rajarajeshwarinagar, Bengaturu-98



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B.E. in Electronics and Communication Engineering Scheme of Teaching and Examinations 2022

Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2022-23)

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	22ECEL47	22ECE46	22ECE45	22ECE44	22ECE43	22ECE42	22MAT41E		Course Code		
Total	HDL Laboratory	Verilog HDL	Data Structures using C++	Signals and Systems	Control Systems	Principles of Communication Systems(Integrated)	Advanced Linear Algebra and Probability	Course Title			
3	PCL	AEC	ESC/ETC/PLC	PC	PC	IPC	BS	Course Type			
			מינים מינים מינים	Respective		MAT		Teaching Dept.			
	0	2	2	2	ω	ω	2	٦	표 .		
	0	2	0	2	O .	0	2	Т	Teaching Hours/Week		
	2	0	2	0	0	2	0	Р	ek		
350	50	50	50	50	50	50	50	CIE			
350	50	50	50	50	50	50	50	SEE	Examination		
700	100	100	100	100	100	100	100	Total	ation		
20	1	3	3	3	3	4	ω		Credits		

Dr. Manjunatha Reddy H.S M. Tech, Ph.D

Global Academy of Technology Department of Electronics and Communication Engg. Professor and HOD

Bengaluru-98

Rajarajeshwarinagar, Bengalim-98 Global Academy of Technology,

Dean Academic



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B.E. in Electronics and Communication Engineering Scheme of Teaching and Examinations 2022 Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2022-23)



V SEMESTER:

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			9		00	7	6	5	4	ω	2	Ь		SI.													
			M _C		MC	AEC	PROJ	PEC	PCCL	PCC	IPCC	SMSH		-													
		22YOK59	22PEK59	22NSK59	22CIVK58	22RMIK57	22ECE56	22ECE55*	22ECEL54	22ECE53	22ECE52	22ECE51		Course and Course Code													
M. Tech, Ph.D	Dr. Man Junatha Reddy H.S	Yoga	Physical Education (PE) (Sports and Athletics)	National Service Scheme (NSS)	Environmental Studies	Research Methodology and IPR	Mini Project	Professional Elective - I	Digital Signal Processing Laboratory	Digital Signal Processing	Digital Communication Systems (Integrated)	Engineering Economics and Management		Course Title													
Daissing of lectifology,	P. Bern Academic &	NSS coordinator Physical Education Director Yoga Teacher			TD: CV/Env/Chem PSB:CV	Any Department	ECE	ECE	ECE	ECE	ECE	ECE		Teaching repartment (TD and Question Paper Setting Board (PSB))												
000000	med		0		2	2	0	ω	0	ω	2	ω	٦	Theory Lecture													
9,	Dus		0		0	2	0	0	0	2	2	0	1	Tutorial	Teac												
	n		2			2			2	2	2	2	2	2	2	2	0	0	4	0	2	0	2	0	P	Practical/ Drawing	Teaching Hours /Week
	\												S	Self -Study	/Week												
	Total		1		02	03	03	03	03	03	03	03		Duration in hours													
	550		100		100		100		100		100	100	100	50	50	100	50	50	50	50	50		CIE Marks	Exam			
	350							50	50		50	50	50	50	50		SEE Marks	Examination									
	900		100		100	100	100	100	100	100	100	100		Total Marks													
	22		0		2	ω	2	ω	Ь	4	4	ω		Credits													

Rajarajeshwarinagar, Bengaluru-98
Department of Electronics and Communication Engg.
Global Academic of Tables Global Academy of Technology

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PCC: Prote	22ECE55B	000	22ECE55A	
PCC: Professional Core Course, PCCL: Professional Core Course laboratory, UHV: Universal Human Value Course, MC: Mandatory Course (Non-credit) AFC: Ability	22ECE55B Operating Systems		22ECE55A Programming in Java	Professional Elective Course - I
iversal Human	22ECE55D		22ECE55C	ve Course - I
Value Course, MC: Mandatory Course (Non-credit) AFC: Ability	Satellite Communication	C	Engineering Electromagnetics	

Enhancement Course, SEC: Skill Enhancement Course, L: Lecture, T: Tutorial, P: Practical S= SDA: Skill Development Activity, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation. K: The letter in the course code indicates common to al the stream of engineering. PROJ: Project /Mini Project. PEC: Professional Elective

Professional Core Course (IPCC): Refers to Professional Core Course Theory Integrated with practical of the same course. Credit for IPCC can be 04 and its Teaching governing the Degree of Bachelor of Engineering /Technology (B.E./B.Tech.) 2022-23 evaluated by only CIE (no SEE). However, questions from the practical part of IPCC shall be included in the SEE question paper. For more details, the regulation Learning hours (L:T:P) can be considered as (3:0:2) or (2:2:2). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be

events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree

development of small systems/applications etc. Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary Mini- project can be assigned to an individual student or to a group having not more than 4 students Mini-project work: Mini Project is a laboratory-oriented/hands on course that will provide a platform to students to enhance their practical knowledge and skills by the

CIE procedure for Mini-project:

- question and answer session in the ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batches mates. one of them being the Guide. The CIE marks awarded for the Mini-project work shall be based on the evaluation of the project report, project presentation skill, and (i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two faculty members of the Department,
- (ii) Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all the guides of the project.

ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates The CIE marks awarded for the Mini-project, shall be based on the evaluation of the project report, project presentation skill, and question and answer session in the

No SEE component for Mini-Project.

group will provide an option to select one course. The minimum number of students' strengths for offering a professional elective is 10. However, this conditional shall Technology curriculum. Multidisciplinary courses that are added supplement the latest trend and advanced technology in the selected stream of engineering. not be applicable to cases where the admission to the program is less than 10 Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and

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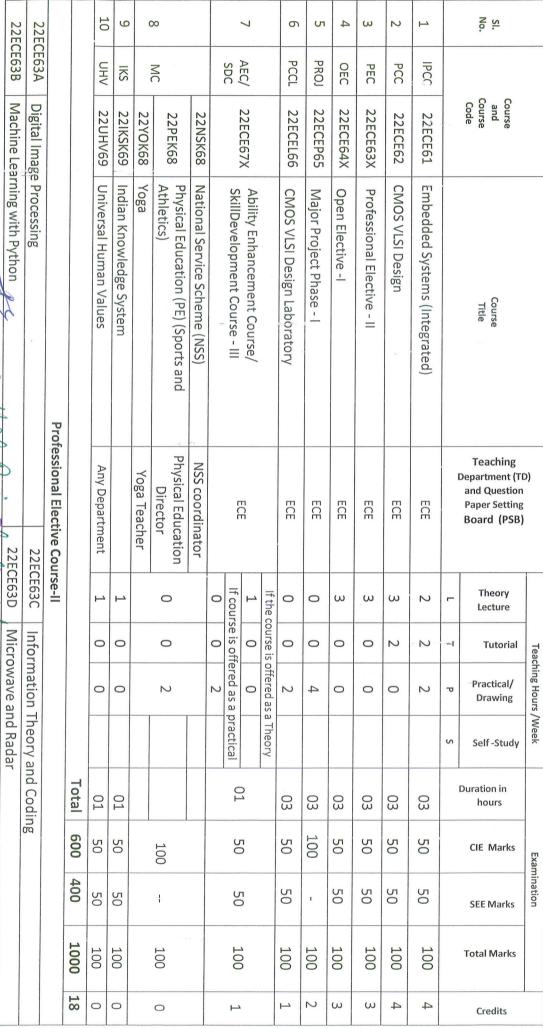


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Internet of Things and Cloud Computing	22ECE67D	22ECE67B Digital Image Processing Laboratory	22ECE67B
Multimedia Communication	22ECE67C	22ECE67A Communication Simulink Toolbox	22ECE67A
nt Course - III	kill Enhancemen	Ability Enhancement Course / Skill Enhancement Course - III	
Introduction to Digital Image Processing	22ECE64D	22ECE64B Micro Electro Mechanical Systems	22ECE64B
Electronic Circuits with Verilog	22ECE64C	Communication Engineering Systems	22ECE64A
			22222
	e Course-l	Open Elective Course-I	

Enhancement Course, SEC; Skill Enhancement Course, L: Lecture, T: Tutorial, P: Practical S= SDA: Skill Development Activity, CIE: Continuous Internal Evaluation, SEE PCC: Professional Core Course, PCCL: Professional Core Course laboratory, UHV: Universal Human Value Course, MC: Mandatory Course (Non-credit), AEC: Ability Course. PROJ: Project Phase -I, OEC: Open Elective Course Semester End Evaluation. K: The letter in the course code indicates common to all the stream of engineering. PROJ: Project /Mini Project. PEC: Professional Elective

governing the Degree of Bachelor of Engineering /Technology (B.E./B.Tech.) 2022-23 evaluated by only CIE (no SEE). However, questions from the practical part of IPCC shall be included in the SEE question paper. For more details, the regulation Professional Core Course (IPCC): Refers to Professional Core Course Theory Integrated with practical of the same course. Credit for IPCC can be 04 and its Teaching— Learning hours (L:T:P) can be considered as (3:0:2) or (2:2:2). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be

events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education

group will provide an option to select one course. The minimum number of students' strengths for offering professional electives is 10. However, this conditional shall Technology curriculum. Multidisciplinary courses that are added supplement the latest trend and advanced technology in the selected stream of engineering. Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and not be applicable to cases where the admission to the program is less than 10.

Open Elective Courses:

shall not be applicable to class where the admission to the program is less than 10. guidance of the Program Coordinator/ Advisor/Mentor. The minimum numbers of students' strength for offering Open Elective Course is 10. However, this condition opt for an elective offered by other Departments, provided they satisfy the prerequisite condition if any. Registration to open electives shall be documented under the Students belonging to a particular stream of Engineering and Technology are not entitled to the open electives offered by their parent Department. However, they car

define the problem statement for the project work Project Phase-I: Students have to discuss with the mentor/guide and with their help he/she has to complete the literature survey and prepare the report and finally

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(Effective from the academic year 2022-23)

PCC: P	22E	22E		22E	22E			6	ъ	4	ω	2	Ь		No SI.		
rofessiona	22ECE75B	22ECE75A		22ECE74B	22ECE74A			PROJ	OEC	PEC	PCC	IPCC	IPCC				
PCC: Professional Core Course,	Automotive Electronics	Wireless and		High Perforr	Advanced VLSI			22ECEP76	22ECE75x	22ECE74x	22ECE73	22ECE72	22ECE71		Course and Course Code		
PCC: Professional Core Course, PCCL: Professional Core Course laboratory, PEC: Professional Elective Course, OEC: Open Elective Course PR: Project Work, L: Lecture,	Electronics	Wireless and Mobile Networks	0	High Performance Computer Networks	LSI	Profe		Major Project Phase-II	Open Elective- II	Professional Elective-III	Cryptography	Antenna and Wavepropagation (Integrated)	Computer Communication Networks (Integrated)		Course Title		Scheme A- VII SEMESTER (Swappable VII a
ofessional Elective	2	2	Open Elective Course-II	2	2	Professional Elective Course-		ECE	ECE	ECE	ECE	ECE	ECE	С	Teaching Department (TD and Question Paper Setting Board (PSB))	STER (Swappable
Course, OE	22ECE75D	22ECE75C	se-II	22ECE74D	22ECE74C	urse-III		0	ω	ω -	ω	ω	ω	-	Theory Lecture		VII and VIII
e, OEC : Open Ele	Multi	Smar		Biom	Option			0	0	0	2	0	0	1	Tutorial	Tea	II SEM
Elective C	Multimedia Communication	t Sensors		Biomedical Signal Processing	Optical Fiber Communication			12	0	0	0	2	2	P	Practical/ Drawing	Teaching Hours /Week	SEMESTER)
ourse PR:	mmunica	& Instrur		gnal Pro	Commur									S	Self -Study	/Week	
Project W	ation	Smart Sensors & Instrumentation		cessing	nication		Total	03	01	03	03	03	03		Duration in hours		
ork, L: Le							350	100	50	50	50	50	50		CIE Marks	Exam	
cture, T:							350	100	50	50	50	50	50		SEE Marks	Examination	
							700	200	100	100	100	100	100		Total Marks		
							24	6	ω	ω	4	4	4		Credits		

OEC: Open Elective Course, PEC: Professional Elective Course. PROJ: Project work Tutorial, P: Practical S= SDA: Skill Development Activity, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation. TD- Teaching Department, PSB: Paper Setting department,

Note: VII and VIII semesters of IV years of the program

(1) Institutions can swap the VII and VIII Semester Schemes of Teaching and Examinations to accommodate research internships/ industry internships after the VI semester.

completed during the beginning of the IV year or the later part of IV years of the program. (2) Credits earned for the courses of VII and VIII Semester Scheme of Teaching and Examinations shall be counted against the corresponding semesters whether the VII or VIII semesters is

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Department of Electronics and Communication Enga Professor and HOD Global Academy of Technology

Professional Elective Courses (PEC):

students' strengths for offering professional electives is 10. However, this conditional shall are added supplement the latest trend and advanced technology in the selected stream of engineering. Each group will provide an option to select one course. The minimum number of A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and Technology curriculum. Multidisciplinary courses that

not be applicable to cases where the admission to the program is less than 10.

Open Elective Courses:

offered by other Departments, provided they satisfy the prerequisite condition if any. Registration to open electives shall be documented under the guidance of the Program Coordinator Students belonging to a particular stream of Engineering and Technology are not entitled to the open electives offered by their parent Department. However, they can opt for an elective program is less than 10. Advisor/Mentor. The minimum numbers of students' strength for offering Open Elective Course is 10. However, this condition shall not be applicable to class where the admission to the

PROJECT WORK (22ECEP76)

The objective of the Project work is

- (I) To encourage independent learning and the innovative attitude of the students.
- (ii) To develop interactive attitude, communication skills, organization, time management, and presentation skills.
- (iii) To impart flexibility and adaptability.
- (iv) To inspire team working.
- (v) To expand intellectual capacity, credibility, judgment and intuition.
- (vi) To adhere to punctuality, setting and meeting deadlines.
- (vii) To install responsibilities to oneself and others.
- present and exchange ideas. (viii) To train students to present the topic of project work in a seminar without any fear, face the audience confidently, enhance communication skills, involve in group discussion to

CIE procedure for Project Work:

[1] Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

50:25:25. The marks awarded for the project report shall be the same for all the batch mates The CIE marks awarded for the project work, shall be based on the evaluation of the project work Report, project presentation skill, and question and answer session in the ratio

[2]. Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work, shall be based on the evaluation of project work Report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates

SEE procedure for Project Work:

Report, project presentation skill, and question and answer session in the ratio 50:25:25 SEE for project work will be conducted by the two examiners appointed by the University. The SEE marks awarded for the project work shall be based on the evaluation of project work

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B.E. in Electronics and Communication Engineering Scheme of Teaching and Examinations 2022 Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2022 23



Scheme A-VIII SEMESTER (Swappable VII and VIII SEMESTER)

_	_				_	_				_				
22E	22E		22E	22E			ω	2	Þ		SI.			
22ECE82B			22ECE81B	22ECE81A			INT	OEC	PEC		Coc			
BOS Recommended Course	BOS Recommended Course		BOS Recomm	BOS Recomm			22ECEI83	22ECE82x	22ECE81x		Course and Course Code			
nded Course	nded Course	Open Electi	BOS Recommended Course	BOS Recommended Course	Professional El		Internship (Industry/Research) (14 - 20 weeks)	Open Elective - III (Online Courses)	Professional Elective -IV (Online Courses)		Course Title			
22ECE82D	22ECE82C	Open Elective Course-III (Online	22ECE81D	22ECE81C	Professional Elective Course-IV (On		ECE	ECE	ECE	С	Teaching Department (TD) and Question Paper Setting Board (PSB)			
		e Courses)			nline courses)	1	0	ω	ω	٦	Theory Lecture			
BOS Reco	BOS Reco	es)	BOS Reco	BOS Reco	urses)		0	0	0	-	Tutorial	Teac		
BOS Recommended Course	BOS Recommended Course		BOS Recommended Course	BOS Recommended Course			12	0	0	ъ	Practical/ Drawing	Teaching Hours /Week		
d Course	d Course		d Course	d Course						S	Self -Study	Week		
						Total	03	03	03		Duration in hours			
						200	100	50	50		CIE Marks	Exam		
						200	100	50	50		SEE Marks	Examination		
						400	200	100	100		Total Marks			
						16	10	ω	ω		Credits			

Internship Paper Setting department, OEC: Open Elective Course, PEC: Professional Elective Course. PROJ: Project work, INT: Industry Internship / Research Internship / Rural L: Lecture, T: Tutorial, P: Practical S= SDA: Skill Development Activity, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation. TD- Teaching Department, PSB:

Note: VII and VIII semesters of IV years of the programSwapping Facility

- Institutions can swap VII and VIII Semester Scheme of Teaching and Examinations to accommodate research internships/ industry internships/Rural Internship after
- Credits earned for the courses of VII and VIII Semester Scheme of Teaching and Examinations shall be counted against the corresponding semesters whether VII or VIII semester is completed during the beginning of IV year or later part of IV year of the program. If μ , μ , μ

Elucidation:

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Communication Engs.

shall be permitted to be operated simultaneously by the University so that students have ample opportunity for an internship. In other words, a good percentage of the At the beginning of IV years of the program i.e., after VI semester, VII semester classwork and VIII semester Research Internship / Industrial Internship / Rural Internship class shall attend VII semester classwork and a similar percentage of others shall attend to Research Internship or Industrial Internship or Rural Internship.

Centre established in the parent institute and /or at reputed research organizations/institutes Research/Industrial /Rural Internship shall be carried out at an Industry, NGO, MSME, Innovation centre, Incubation centre, Start-up, centre of Excellence (CoE), Study

University examination after satisfying the internship requirements considered for the award of a degree. Those, who do not take up/complete the internship shall be declared to fail and shall have to complete it during the subsequent The mandatory Research internship /Industry internship / Rural Internship is for 14 to 20 weeks. The internship shall be considered as a head of passing and shall be

field and imparts the skill required for carrying out research. Research internship: A research internship is intended to offer the flavour of current research going on in the research field. It helps students get familiarized with the

appreciate, and adapt to organizational realities by tempering their knowledge with practical constraints. them learn to overcome unexpected obstacles and successfully navigate organizations, perspectives, and cultures. Dealing with contingencies helps students recognize, Industry internship: Is an extended period of work experience undertaken by students to supplement their degree for professional development. It also helps

studying in different academic years for exploring various opportunities in techno-social fields, to connect and work with Rural India for their upliftment. Rural Internship: Rural development internship is an initiative of Unnat Bharat Abhiyan Cell, RGIT in association with AICTE to involve students of all departments

internship. The faculty coordinator or mentor has to monitor the student's internship progress and interact with them to guide for the successful completion of the internship. The students are permitted to carry out the internship anywhere in India or abroad. University shall not bear any expenses incurred in respect of the

cost involved in carrying out the internship by students. However, students can receive any financial assistance extended by the organization. or abroad), provided favorable facilities are available for the internship and the student remains regularly in contact with the internal guide. University shall not bear any With the consent of the internal guide and Principal of the Institution, students shall be allowed to carry out the internship at their hometown (within or outside the state

students on the VTU web portal Professional Elective / Open Elective Course: These are ONLINE courses suggested by the respective Board of Studies. Details of these courses shall be made available for

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B.E. in Electronics and Communication Engineering Scheme of Teaching and Examinations 2023 Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

Scheme B: VII and VIII semesters for the candidates who seek an internship with project work

(Effective from the academic year 2023-24)

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	INT	PROJ	OEC	PEC		OEC	PEC	PCC	PCC	PCC		0.0	
	22ECE81x	22ECE183	22ECE82x	22ECE81x		22ECE75x	22ECE74x	22ECE73	22ECE72	22ECE71		Course and Course Code	
	Internship (Industry/Research) (02 semesters)	Project – Outcome of Training	Open Elective - III (Online Courses)	Professional Elective -IV (Online Courses)		Open Elective Courses (MOOC courses)	Professional Elective Course (MOOC Courses)	Cryptography To be completed in the 6 th semester	Antenna and Wavepropagation (Integrated) To be completed in 5th /6th semester	Computer Communication Networks (Integrated) To be completed in 5th/6th semester		Course Title	28.1
LN Karas	TD: ME	TD: ME PSB:ME	TD: ME PSB:ME	TD: ME PSB:ME		TD: ME PSB: ME	TD: ME PSB: ME	TD: ME PSB: ME	TD: ME PSB:ME	TD: ME PSB:ME		Teaching Department (TD)and Question Papel Setting Board (PSB)	
hand	0	0	ω	ω		ω	ω	4	ω	ω	٦	Theory Lecture	
	0	0	0	0		0	0	0	0	0	Т	Tutorial	Tea
ma an	12	12	0	0		0	0	0	2	2	P	Practical/ Drawing	Teaching Hours /Week
											S	Self -Study	/Week
Total	03	03	01	03		01	03	03	03	03		Duration inhours	
550	100	100	50	50	arci.	50	50	50	50	50		CIE Marks	Exam
550	100	100	50	50		50	50	50	50	50		SEE Marks	Examination
1100	200	200	100	100		100	100	100	100	100		Total Marks	
42	10	9	ω	ω		ω	ω	ω	4	4		Credits	

Dr. Manjonatha Reddy H.S M. Tech, Ph.D

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