

CRITERIA 1**1.1.1 The institution ensures effective curriculum delivery through a well-planned and documented****INDEX**

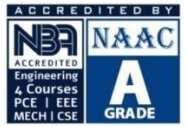
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5	Department Meeting Minutes
6	Class Committee Meeting Minutes
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JCT COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Pichanur, Coimbatore-641 105 Tamil Nadu INDIA Phone: +91 422 2636900 Fax: +91 422 2636901 Email: info@jct.ac.in www.jct.ac.in



Academic Schedule

CENTRE FOR ACADEMIC COURSES
ANNA UNIVERSITY : CHENNAI - 600 025

ACADEMIC SCHEDULE FOR NON AUTONOMOUS AFFILIATED COLLEGES

August 2020 - November 2020 (ODD SEMESTER - Except I Semester)

UG & PG Programmes

Sl. No.	Programme	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	All UG/PG Programmes (except I Semester)	12.08.2020	26.10.2020**	28.10.2020	09.11.2020
2.	B.E / B. Tech.(Part-Time) - III, V, VII				

RE - OPENING DAY FOR THE NEXT SEMESTER: 14.12.2020 (Monday)

NOTE:

1. The Theory and Practical Examination schedules which will be published in due course by the Controller of Examinations, Anna University, Chennai should be followed. (Practical Examinations will be conducted before the theory examinations)
2. Assessment Schedule for the August 2020 - November 2020 should be followed strictly.
3. Saturdays included in the Assessment period shall be used for conducting the Assessment Tests.

** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays for UG & PG)	Time Table of the Week Day to be Followed
1	05.09.2020	Tuesday
2	12.09.2020	Friday
3	19.09.2020	Monday
4	26.09.2020	Tuesday

Sl. No.	Working Days (Saturdays for UG & PG)	Time Table of the Week Day to be Followed
5	03.10.2020	Wednesday
6	10.10.2020	Thursday
7	17.10.2020	Friday
8	24.10.2020	Monday

S. S. K.
DIRECTOR
ACADEMIC COURSES

A
G

S. S. K.

PRINCIPAL
JCT College of Engineering & Technology
PICHANUR, COIMBATORE - 641 105.



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Academic Calendar

Our Vision

To emerge as a Premier Institute for developing industry ready engineers with competency, initiative and character to meet the challenges in global environment.

Our Mission

- **To impart state-of-the-art engineering and professional education through strong theoretical basics and hands on training to students in their choice of field.**
- **To serve our students by teaching them leadership, entrepreneurship, teamwork, values, quality, ethics and respect for others.**
- **To provide opportunities for long-term interaction with academia and industry.**
- **To create new knowledge through innovation and research.**

S. S. K.

Quality Policy

- **To create quality professionals to meet the emerging Industrial, Social and Economical needs.**
- **To create a good ambiance to the Students for their Academic Excellence and Innovation.**
- **Enhancing the skills and Knowledge of the Faculty and Staff through career development programmes.**
- **Encouraging and fostering a spirit of teamwork.**
- **Aiming at continual Improvement in all our activities.**
- **The management supports the team of educators to improve their professional knowledge through career development programmes, which enhance them to bring out graduates with social values.**
- **Students are motivated to take up decisions and they are continuously updated with technical knowledge that is essential for a developing nation.**
- **Helps the students for career development by improving their communication skills and technical knowledge.**

S. S. K.

JCT COLLEGE OF ENGINEERING AND TECHNOLOGY
PICHANUR, COIMBATORE -641 105
Academic Calendar for III ,V and VII Year B.E/B.Tech for ODD Semester 2020-2021

Date	Day	Particulars	Total Days	
13.08.2020	THU		01	
14.08.2020	FRI		02	
15.08.2020	SAT	INDEPENDENCEDAY		
16.08.2020	SUN	HOLIDAY		
17.08.2020	MON		03	
18.08.2020	TUE		04	
19.08.2020	WED		05	
20.08.2020	THU		06	
21.08.2020	FRI	Class committee Meeting-1	07	
22.08.2020	SAT	GANESH CHATURTHI		
23.08.2020	SUN	HOLIDAY		
24.08.2020	MON		08	
25.08.2020	TUE		09	
26.08.2020	WED		10	
27.08.2020	THU		11	
28.08.2020	FRI		12	
29.08.2020	SAT		13	
30.08.2020	SUN	MUHARRAM		
31.08.2020	MON	ONAM		
		Total Working days	13	
Date	Day	Particulars	Total Days	
01.09.2020	TUE		14	
02.09.2020	WED		15	
03.09.2020	THU		16	
04.09.2020	FRI		17	
05.09.2020	SAT		18	
06.09.2020	SUN	HOLIDAY		
07.09.2020	MON	INTERNAL TEST -1	19	
08.09.2020	TUE	INTERNAL TEST -1	20	
09.09.2020	WED	INTERNAL TEST -1	21	
10.09.2020	THU		22	
11.09.2020	FRI		23	
12.09.2020	SAT	Class committee Meeting-2	24	
13.09.2020	SUN	HOLIDAY		

14.09.2020	MON		25	
15.09.2020	TUE		26	
16.09.2020	WED		27	
17.09.2020	THU		28	
18.09.2020	FRI		29	
19.09.2020	SAT		30	
20.09.2020	SUN	HOLIDAY		
21.09.2020	MON		31	
22.09.2020	TUE		32	
23.09.2020	WED		33	
24.09.2020	THU		34	
25.09.2020	FRI		35	
26.09.2020	SAT		36	
27.09.2020	SUN	HOLIDAY		
28.09.2020	MON		37	
29.09.2020	TUE		38	
30.09.2020	WED		39	
		Total Working days	21	

Date	Day	Particulars	Total Days	
01.10.2020	THU	INTERNAL TEST -2	40	
02.10.2020	FRI	GANDHI JAYANTHI		
03.10.2020	SAT	INTERNAL TEST -2	41	
04.10.2020	SUN	HOLIDAY		
05.10.2020	MON	INTERNAL TEST -2	42	
06.10.2020	TUE		43	
07.10.2020	WED		44	
08.10.2020	THU	Class committee Meeting-3	45	
09.10.2020	FRI		46	
10.10.2020	SAT		47	
11.10.2020	SUN	HOLIDAY		
12.10.2020	MON		48	
13.10.2020	TUE		49	
14.10.2020	WED		50	
15.10.2020	THU		51	
16.10.2020	FRI		52	
17.10.2020	SAT		53	
18.10.2020	SUN	HOLIDAY		
19.10.2020	MON		54	
20.10.2020	TUE		55	

21.10.2020	WED	INTERNAL TEST -3	56	
22.10.2020	THU	INTERNAL TEST -3	57	
23.10.2020	FRI	INTERNAL TEST -3	58	
24.10.2020	SAT	POOJA HOLIDAY		
25.10.2020	SUN	POOJA HOLIDAY		
26.10.2020	MON	1.Class committee Meeting-4 2.LAST WORKING DAY	59	
27.10.2020	TUE			
28.10.2020	WED	COMMENCEMENT OF PRACTICAL EXAM		
29.10.2020	THU			
30.10.2020	FRI	MILAD UN-NABI		
31.10.2020	SAT			
		Total Working days	19	
Date	Day	Particulars	Total Days	
01.11.2020	SUN	HOLIDAY		
02.11.2020	MON	Model-1		
03.11.2020	TUE	Model-1		
04.11.2020	WED	Model-1		
05.11.2020	THU	Model-1		
06.11.2020	FRI	Model-1		
07.11.2020	SAT	Model-1		
08.11.2020	SUN	HOLIDAY		
09.11.2020	MON	COMMENCEMENT OF THEORY EXAM		
10.11.2020	TUE			
11.11.2020	WED			

Principal

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5/5/2

JCT COLLEGE OF ENGINEERING AND TECHNOLOGY
PICHANUR, COIMBATORE -641 105
Academic Calendar for IV ,VI and VIII SEM- B.E/B.Tech for EVEN Semester 2020-2021

Date	Day	Particulars	Total Days	
18.02.2021	THU	Commencement of Classes	01	
19.02.2021	FRI		02	
20.02.2021	SAT		03	
21.02.2021	SUN			
22.02.2021	MON		04	
23.02.2021	TUE		05	
24.02.2021	WED		06	
25.02.2021	THU		07	
26.02.2021	FRI		08	
27.02.2021	SAT		09	
28.02.2021	SUN			
		Total Working days	09	
Date	Day		Total Days	
01.03.2021	MON	Class Committee Meeting-I	10	
02.03.2021	TUE		11	
03.03.2021	WED		12	
04.03.2021	THU		13	
05.03.2021	FRI		14	
06.03.2021	SAT		15	
07.03.2021	SUN			
08.03.2021	MON		16	
09.03.2021	TUE		17	
10.03.2021	WED		18	
11.03.2021	THU		19	
12.03.2021	FRI		20	
13.03.2021	SAT		21	
14.03.2021	SUN			
15.03.2021	MON		22	
16.03.2021	TUE		23	
17.03.2021	WED		24	
18.03.2021	THU		25	

19.03.2021	FRI		26	
20.03.2021	SAT		27	
21.03.2021	SUN			
22.03.2021	MON		28	
23.03.2021	TUE		29	
24.03.2021	WED		30	
25.03.2021	THU	INTERNAL TEST- I	31	
26.03.2021	FRI	INTERNAL TEST- I	32	
27.03.2021	SAT	INTERNAL TEST- I	33	
28.03.2021	SUN			
29.03.2021	MON	Class Committee Meeting-II	34	
30.03.2021	TUE		35	
31.03.2021	WED		36	
		Total Working days	27	

Date	Day	Particulars	Total Days	
01.04.2021	THU		37	
02.04.2021	FRI	Holiday-Good Friday		
03.04.2021	SAT		38	
04.04.2021	SUN			
05.04.2021	MON		39	
06.04.2021	TUE		40	
07.04.2021	WED		41	
08.04.2021	THU		42	
09.04.2021	FRI		43	
10.04.2021	SAT		44	
11.04.2021	SUN			
12.04.2021	MON		45	
13.04.2021	TUE	Holiday- Telugu New Year		
14.04.2021	WED	Holiday- Tamil New Year		
15.04.2021	THU		46	
16.04.2021	FRI		47	
17.04.2021	SAT		48	
18.04.2021	SUN			
19.04.2021	MON		49	
20.04.2021	TUE	INTERNAL TEST- II	50	
21.04.2021	WED	INTERNAL TEST- II	51	
22.04.2021	THU	INTERNAL TEST- II	52	
23.04.2021	FRI	Class Committee Meeting-III	53	

24.04.2021	SAT		54	
25.04.2021	SUN			
26.04.2021	MON		55	
27.04.2021	TUE		56	
28.04.2021	WED		57	
29.04.2021	THU		58	
30.04.2021	FRI		59	
		Total Working days	23	
Date	Day		Total Days	
01.05.2021	SAT	Holiday- May Day		
02.05.2021	SUN			
03.05.2021	MON		60	
04.05.2021	TUE		61	
05.05.2021	WED		62	
06.05.2021	THU		63	
07.05.2021	FRI		64	
08.05.2021	SAT		65	
09.05.2021	SUN			
10.05.2021	MON		66	
11.05.2021	TUE		67	
12.05.2021	WED		68	
13.05.2021	THU		69	
14.05.2021	FRI		70	
15.05.2021	SAT		71	
16.05.2021	SUN	Holiday- Ramzan		
17.05.2021	MON	INTERNAL TEST- III	72	
18.05.2021	TUE	INTERNAL TEST- III	73	
19.05.2021	WED	INTERNAL TEST- III	74	
20.05.2021	THU	Class Committee Meeting-IV	75	
21.05.2021	FRI	Commencement of Last working day	76	
22.05.2021	SAT			
23.05.2021	SUN			
24.05.2021	MON	Commencement of Practical Exam		
25.05.2021	TUE			
26.05.2021	WED			
27.05.2021	THU			
28.05.2021	FRI			
29.05.2021	SAT			
30.05.2021	SUN			
		Total Working days	17	
Date	Day		Total	

			Days	
01.06.2021	MON			
02.06.2021	TUE	Commencement of End semester Examination		
03.06.2021	WED			

S.K.

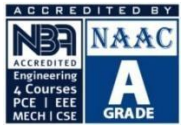
Principal



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Subject Preference & Allocation

SUBJECT ALLOCATION & PREFERENCE

Name Of the Faculty: <u>Angel Joseph</u>					Department : <u>EEE</u>			
Academic Year 2020-2021								
Theory/Lab	Subject Preferences					Specialization	No. of times handled	Allotted subject by HoD
	S.No.	Class	Semester	Subject Code	Subject Name			
Theory	1	B.E AIDS	II	BE8251	Basics of Electrical and Electronics Engineering	Electrical and Electronics Engineering	0	Basics of Electrical and Electronics Engineering
	2	B.E EEE	IV	BE8402	Transmission and Distribution			Transmission and Distribution
	3	B.E EEE	VI	GE8075	Intellectual Property Rights			Intellectual Property Rights
Lab	1	B.E CSE	II	GE3271	Engineering Practice Laboratory			Engineering Practice Laboratory
	2	B.E PE		BE3272	Basics of Electrical and Electronics Engineering Laboratory			and Electronics Engineering Laboratory
	3	B.E CIVIL						
	4	B.E EEE	IV	BE8412	Technical Seminar			Technical Seminar
	5	B.E EEE	VI	BE8611	Mini Project			Mini Project
	6	B.E EEE	VIII	BE8811	Project			Project
Note: Analysing the competency of staffs in subject chosen based on their possession of Ph.D/Publication/FDP Certification in addition to the M.E Specialization and Allocating the subjects to the faculty based on the number of times handled, result analysis and student's feedback.								

S. Ganesh
HoD/EEE



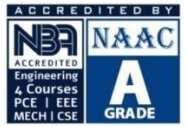
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Class Timetable

ACADEMIC YEAR: 2020 – 2021

YEAR: II

SEM: IV

ONLINE: GOOGLE MEET

PERIOD	I	II	TEA BREAK	III	IV	LUNCH BREAK	V	VI
DAY	09:30 –	10:20 –		11:15 – 12:00pm	12:05 – 12:50pm		02.00 –	03.00 –
MON	SOM	TE-I		SNM	EM		ARW	TE-I
	Mr.D.Anand	Mr.M.Prabh		Mrs.Jayalakshmi	Mr.K.Karthik		Mr.A.James	Mr.M.Prabhu
TUE	SOM	KOM		MT-II	SNM		MF-II LAB	KOM TEST
	Mr.D.Anand	Dr.G.Mages		Mr.M.Vijayakumar	Mrs.Jayalakshmi		Mr.M.Vijayaku	Dr.G.Magesh
WED	EM	MT-II		SOM	SNM		PLACEMENT	EM TEST
	Mr.K.Karthik	Mr.M.Vijay		Mr.D.Anand Kumar	Mrs.Jayalakshmi		Ms.Poornima	Mr.K.Karthik
THU	TE-I	MT-II		KOM	MT-II		SOM LAB	SNM TEST
	Mr.M.Prabhu	Mr.M.Vijay		Dr.G.Magesh	Mr.M.Vijayakum		Mr.R.Mahendra	Mrs.Jayalakshmi
FRI	TE-I	EM		TE-I	KOM			MT-II
	Mr.M.Prabhu	Mr.K.Karthi		Mr.M.Prabhu	Dr.G.Magesh			Mr.M.Vijayaku
SAT	SOM	EM		KOM	SNM			SOM TEST
	Mr.D.Anand	Mr.K.Karthi		Dr.G.Magesh	Mrs.Jayalakshmi			Mr.D.Anand

COURSE	COURSE TITLE	FACULTY	GOOGLE MEET LINK
MA8452	Statistics and Numerical Methods	Mrs.Jayalakshmi	https://meet.google.com/eau-bfbc-cik
ME8492	Kinematics of Machinery	Dr.G.Magesh	https://meet.google.com/dqs-vmrm-sbf
ME8451	Manufacturing Technology – II	Mr.M.Vijayakumar	https://meet.google.com/zim-bnuz-bne
ME8491	Engineering Metallurgy	Mr.K.Karthik	https://meet.google.com/brd-hzoq-mdf
CE8395	Strength of Materials for Mechanical Engineers	Mr.D.Anand Kumar	https://meet.google.com/kmc-aopt-nex
ME8493	Thermal Engineering- I	Mr.M.Prabhu	https://meet.google.com/xup-usyb-wte
ME8462	Manufacturing Technology Laboratory – II	Mr.M.Vijayakumar&	https://meet.google.com/zim-bnuz-bne
CE8381	Strength of Materials and Fluid Mechanics and	K.Karthik&	https://meet.google.com/brd-hzoq-mdf
HS8461	Advanced Reading and Writing	Mr.A.James	https://meet.google.com/nec-phyu-ujj
	PLACEMENT	Ms.Poornima	https://meet.google.com/gjm-xwew-vej
	CLASS ADVISOR		Mr.K.Karthik

ACADEMIC YEAR: 2020 – 2021
YEAR: III
SEM: IV
ONLINE: GOOGLE MEET

PERIOD	I	II	TEA BREAK	III	IV	LUNCH BREAK	V	VI
DAY	09:30 – 10:15am	10:20 – 11:05am		11:15 – 12:00pm	12:05 – 12:50pm		02.00 – 03.00pm	03.00 – 03.30pm
MON	DTS	HMT		FEA	HP		CAD/CAM LAB	DTS TEST
	Mr.Settu	Dr.I.J.I		Mr.R.Mahendran	Mr.R.KrishnaKumar		Mr.S.Thillikani	Mr.Settu
TUE	HMT	CAD/CAM		WT	CAD/CAM		PC LAB	HMT TEST
	Dr.I.J.I	Mr.J.Prabhakar		Mr.Philomin Anto	Mr.J.Prabhakar		Mr.A.James	Dr.I.J.I
WED	FEA	DTS		HMT	HP		DFP	FEA TEST
	Mr.R.Mahendran	Mr.Settu		Dr.I.J.I	Mr.R.KrishnaKumar		Mr.MP&Mr.PA	Mr.R.Mahendran
THU	CAD/CAM	DTS		WT	HP		DFP	WT TEST
	Mr.J.Prabhakar	Mr.Settu		Mr.Philomin Anto	Mr.R.KrishnaKumar		Mr.MP&Mr.PA	Mr.Philomin Anto
FRI	HP	FEA		CAD/CAM	WT		PLACEMENT	HP TEST
	Mr.R.KrishnaKumar	Mr.R.Mahendran		Mr.J.Prabhakar	Mr.Philomin Anto		Ms.Poornima	Mr.R.KrishnaKumar
SAT	DTS	HMT		WT	FEA		DFP	CAD/CAM TEST
	Mr.Settu	Dr.I.J.I		Mr.Philomin Anto	Mr.R.Mahendran		Mr.MP&Mr.PA	Mr.J.Prabhakar

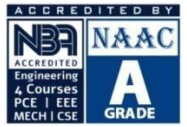
COURSE CODE	COURSE TITLE	FACULTY INCHARGE	GOOGLE MEET LINK
ME8651	Design of Transmission Systems	Mr.Settu	https://meet.google.com/pvj-ysiv-mjp
ME8691	Computer Aided Design and Manufacturing	Mr.J.Prabhakar	http://meet.google.com/wvs-oojs-neb
ME8693	Heat and Mass Transfer	Dr.I.J.Isaac premkumar	https://meet.google.com/inh-pdij-erm
ME8692	Finite Element Analysis	Mr.R.Mahendran	https://meet.google.com/zau-onmg-ibu
ME8694	Hydraulics and Pneumatics	Mr.R.KrishnaKumar	https://meet.google.com/ibg-todu-jgg
PR8592	Welding Technology	Mr.Philomin Anto	https://meet.google.com/vjs-wcww-aeo
ME8681	CAD / CAM Laboratory	Mr.S.Thillikani & Mr.Ramakrishnan	https://meet.google.com/cef-ewub-zus
ME8682	Design and Fabrication Project	Mr.M.Prabhu & Mr.Philomin Anto	https://meet.google.com/xup-usyb-wte
HS8581	Professional Communication	Mr.A.James	https://meet.google.com/nec-phyy-ujj
PLACEMENT		Ms.Poornima	https://meet.google.com/gjm-xwew-vei
CLASS ADVISOR		Mr.M.Prabhu	



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Department Meeting

Minutes

MINUTES OF THE MEETING

Name of the Meeting: HOD Meeting		Ref. No. :EEE/CCM/ 01/october/2020	
Venue: Online		Date: 12/10/2020	
Members Present:			
Faculty:			
Dr.K.Geetha (HOD/Prof.), Umar Muktar S (AP/EEE), Mr.D.Nagarajan (AP/EEE), ,Mr.P.Sam Jasper (AP/EEE),			
S. No.	Points Discussed		
1.	Staffs are asked to give Retest through online by submitting assignments.		
2.	Students attendance should be ensured everyday through google meet.		
3.	Exam fees to be collected.		
4.	III year placement fees of Rs.2000 to be collected.		
5.	Placement introduction organized on Monday (30.11.2020)		
6.	Google classroom utilization given to the students.		
Copy to:		Prepared By	Ms. A Kavyalakshmi
1	Principal.	Approved By	Dr.K.Geetha
2	All staff members of EEE Department	Date	12.10.2020
		Page No.	2 of 2




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 PICHANUR, COIMBATORE - 641 105.

Class Committee Meeting

Minutes

MINUTES OF THE MEETING

Name of the Meeting: Class Committee Meeting		Ref. No. :EEE/CCM/ 01/september/2020	
Venue: Online Google meet		Date: 10/10/2020	
Members Present: Faculty: Dr.K.Geetha (HOD/Prof.), Umar Muktar S (AP/EEE), Mr.D.Nagarajan (AP/EEE), ,Mr.P.Sam Jasper (AP/EEE), Mr. T Senthil Prabhu (AP/S&H), Ms. A Kavyalakshmi (AP/EEE), Mrs. Angel Joseph (AP/EEE). Students: Abdul Kareem Ansari, Chottu Kumar, Dikul, G Manasa, B Saravanan, M Srikanth.			
S. No.	Observations from the students	Name of the Faculty	Corrective steps/ Suggestion
1	Numerical Methods <ul style="list-style-type: none"> • 5 Units has completed • Teaching is good and easy to understand 	T Senthil Prabhu	To practice more unsolved sums.
2	Electrical Machines II <ul style="list-style-type: none"> • 5 Unit has completed • Students are Comfortable with the subject • Study materials & 5 Yrs question bank are given 	D Nagarajan	
4	Measurement and Instrumentation <ul style="list-style-type: none"> • 5 Units has been completed. • Easy to understand the subject. • Question bank and answers are given. 	P Sam Jasper	
5	Linear Integrated Circuits and Applications <ul style="list-style-type: none"> • 5 Units completed. • Good teaching and easy to understand. • Study materials & 5Yrs QB are given. 	Angel Joseph	

6	Control System <ul style="list-style-type: none"> 5 Units completed. Problems along with solutions & 5 Yrs Question bank are given. Easy to understand. 	S Umar Muktar	To practice more problems.
7	Linear Integrated Circuits Applications Laboratory <ul style="list-style-type: none"> Lab experiments 2 completed. Students are instructed to write records note. 	Angel Joseph	Follow Lab rules and regulation. Extra Lab classes are scheduled.
8	General Instructions to the students: <ul style="list-style-type: none"> HoD instructed the students to be punctual to the regular classes. HoD instructed the students to come in proper dress code. HoD instructed the students to make compulsory attendance for model exams. HoD discussed points on appearing for semester examination. 	Class Mentors	Ensure online students attendance and punctuality.
9	General Request by Students : Nil	Class Mentors	
Copy to:		Prepared By	Ms. Angel Joseph
3 Principal.		Approved By	Dr.K.Geetha
4 All staff members of EEE Department		Date	10.10.2020
		Page No.	2 of 2



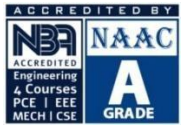

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Student Project Report



**INTELLIGENT IRRIGATION SYSTEM AND
CROP PROTECTION FROM WILD ANIMALS
USING MICROCONTROLLER**



A PROJECT REPORT

Submitted by

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ANJANASREE K.R	720917105003
REMISHA.R	720917105021

In partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

In

ELECTRICAL AND ELECTRONICS ENGINEERING

JCT COLLEGE OF ENGINEERING AND TECHNOLOGY,

PICHANUR, COIMBATORE – 641105

ANNA UNIVERSITY: CHENNAI 600 025

MAY 2021




PRINCIPAL

**JCT College of Engineering & Technology
PICHANUR, COIMBATORE - 641 105.**

ABSTRACT

This paper proposes the intelligent irrigation system and crop protection from wild animals using micro controller. water wastage is main problem in agriculture sector. The setup uses soil moisture sensor which measures the moisture content in the soil . Other than soil moisture sensor, we are using humidity sensor, temperature sensor and rain detector , in order to get the accurate and perfect measures that has to be taken for a good and better cultivation and therefore more profit. Animal tracker is used in our project to secure our agricultural farm from animals which is very destructive.

Irrigation management is a complex decision making process to determine when and how much water to apply to a growing crop to meet specific management objectives. If the farmer is far From the agricultural land he will not be noticed of current conditions. So, efficient water management plays an important role in the irrigated agricultural cropping systems. This project probes into the design of the automated irrigation system based on Arduino UNO . This Embedded project is to design and develop a low cost feature which is based on embedded platform for water irrigation system. This project uses temperature and soil moisture sensors to detect the water quantity present in agriculture. The project uses Arduino UNO micro controller which is controller to process the information .

S. S. h

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "DIABETIC RETINOPATHY DETECTION USING MEDICAL IMAGE PROCESSING" is the bonafide work of "AJMAL SALEEM M.A, SOWNTHARYA M, SUMATHI K, VINAYCHANDRAN P" who carried out the project work under my supervision.

SIGNATURE

**Mrs.D.VEDHA VINODHA
HEAD OF THE DEPARTMENT**

Department of Electronics
And Communication
Engineering,
JCT College of Engineering &
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Coimbatore-641105

SIGNATURE

**Ms.R.ABINAYA
SUPERVISOR**

Assistant Professor
Department of Electronics and
Communication Engineering,
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Coimbatore-641105

Submitted for the project viva voce held on 08/08/2021.....

Internal Examiner

External Examiner

S. S. K.

ABSTRACT

Diabetic Retinopathy is a complication of diabetes that is caused due to the changes in the blood vessels of the retina and is one of the leading causes of blindness in the developed world. Up to the present, Diabetic Retinopathy is still screened manually by ophthalmologist which is a time-consuming process and hence this paper aims at automatic diagnosis of the disease into its different stages using deep Learning. In our approach, we trained a Deep Convolutional Neural Network model on a large dataset consisting of around 3662 images to automatically diagnose and thereby classify high resolution fundus images of the retina into five stages based on their severity. Within this paper, an application system is built which takes the input parameters as the patient's details along with the Fundus image of the eye. A trained deep convolutional neural network model will further extract the features of the fundus images and later with the help of the activation functions like relu along with optimizer like adam. An output is obtained. The output obtained from the Convolutional Neural Network (CNN) model and the patient's details will collectively make a standardized report.

Key Words: Automate, diabetic retinopathy, fundus, convolutional neural network, Transfer learning, DenseNet, retina.

S. S. K.