

# (Autonomous) Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai Accredited by NBA, NAAC with "A+" and Recognised by UGC (2f &12B) KOMARAPALAYAM – 637303

DEPARTMENT OF AGRICULTURE ENGINEERING									
	AY: 2021	-2022	Department - Acade	mic Cale	ndar	ring to	ODD Semester		
CWD	DAY	Date	Semester Schedule	CWD	DAY	Date	Semester Schedule		
1	Wednesday	01.09.2021	Commencement of classes for higher semester	50	Tuesday	02.11.2021			
2	Thursday	02.09.2021		51	Wednesday	03.11.2021	Submission of answers scripts for IAE-II		
3	Friday	03.09.2021			Thursday	04.11.2021	Diwali		
4	Saturday	04.09.2021	Activity-01	52	Friday	05.11.2021	Analysis and presentation		
	Sunday	05.09.2021	HOLIDAY	53	Saturday	06.11.2021	Activity-07 Presentation of IAE-II by HOD to II Year		
5	Monday	06.09.2021			Sunday	07.11.2021	HOLIDAY		
6	Tuesday	07.09.2021		54	Monday	08.11.2021	Presentation of IAE-II by HOD to III Year		
7	Wednesday	08.09.2021	Department Meeting	55	Tuesday	09.11.2021	Presentation of IAE-II by HOD to IV Year		
8	Thursday	09.09.2021		56	Wednesday	10.11.2021			
	Friday	10.09.2021	Vinayagar chaturthi	57	Thursday	11.11.2021			
9	Saturday	11.09.2021	Activity-02	58	Friday	12.11.2021	(6)		
	Sunday	12.09.2021	HOLIDAY	59	Saturday	13.11.2021	Activity-08		
10	Monday	13.09.2021	Sec. At		Sunday	14.11.2021	HOLIDAY		
11	Tuesday	14.09.2021		60	Monday	15.11.2021	Completion of syllabus		
12	Wednesday	15.09.2021	2. Portion covered details	61	Tuesday	16.11.2021	- W		
13	Thursday	16.09.2021		62	Wednesday	17.11.2021			
14	Friday	17.09.2021		63	Thursday	18.11.2021	Department Meeting-07		
15	Saturday	18.09.2021	Activity-03	64	Friday	19.11.2021			
	Sunday	19.09.2021	Muharam /HOLIDAY	65	Saturday	20.11.2021	Activity-09		
16	Monday	20.09.2021		65	Sunday	21.11.2021	HOLIDAY		

# EXCEL ENGINEERING COLLEGE, Komarapalayam - 637303 DEPARTMENT OF AGRICULTURE ENGINEERING - ACADEMIC CALENDAR Academic Calendar (2021 - 2022) - EVEN Semester

Day	Date	SCHEDULE	Day	Date	SCHEDULE
Tue	01.03.2022		Wed	27.04.2022	Department Meeting
Wed	02.03.2022		Thu	28.04.2022	
Thur	03.03.2022		Fri	29.04.2022	
Fri	04.03.2022		Sat	30.04.2022	Sport Activity & Cultural Fest 2K22
Sat	05.03.2022		Sun	01.05.2022	HOILDAY
Sun	06.03.2022	HOILDAY	Mon	02.05.2022	Unit -3 Completed.
Mon	07.03,2022		Tue	03.05.2022	
Tue	08.03.2022		Wed	04.05.2022	IAE - II (4th, 3rd & 2nd Year Students
Wed	09.03.2022		Thu	05.05.2022	IAE - II (4th, 3rd & 2nd Year Students
Thur	10.03.2022		Fri	+ 06.05.2022	IAE - II (4th, 3rd & 2nd Year Students
Fri	11.03.2022		Sat	07.05.2022	National Level Technical Symposium
Sat	12.03.2022		Sun	08.05.2022	HOILDAY
Sun	13.03.2022	HOILDAY	Mon	09.05.2022	
Mon	14.03.2022		Tue	10.05.2022	
Tue	15.03.2022		Wed	11.05.2022	Department Meeting
Wed	16.03.2022		Thu	12.05.2022	
Thur	17.03.2022		Fri	13.05.2022	Control of the contro
Fri	18.03.2022		Sat	14.05.2022	HOILDAY ( for Students)
Sat	19.03.2022		Sun	15.05.2022	HOILDAY
Sun	20.03.2022	HOILDAY	Mon	16.05.2022	
Mon	21.03.2022		Tue	17.05.2022	
Tue	22.03.2022		Wed	18.05.2022	Department Meeting
Wed	23.03.2022		Thu	19.05.2022	
Thur	24.03.2022		Fri	20.05.2022	
Fri	25.03.2022		Sat	21.05.2022	FDP on CO-PO Mapping / Acitivity
Sat	26.03.2022	HOILDAY (For Students)	Sun	22.05.2022	HOILDAY
Sun	27.03.2022	HOILDAY	Mon	23.05.2022	Awareness on Conservation of Soil
Mon	28.03.2022		Tue	24.05.2022	Unit - 4 Completed
Tue	29.03.2022	IAE - 1 (for First Year Students)	Wed	25.05.2022	Department Meeting
Wed	30.03.2022	IAE - 1 (for First Year Students)	Thu	26.05.2022	
Thur	31.03.2022	IAE - 1 (for First Year Students)	Fri	27.05.2055	
Fri	01.04.2022		Sat	28.05.2022	HOILDAY ( for Students)
Sat	02.04.2022	Awareness Program	Sun	29.05.2022	HOILDAY
Sun	03.04.2022	HOILDAY	Mon	30.05.2022	
Mon	04.04.2022		Tue	31.05.2022	
Tue	05.04.2022		Wed	01.06.2022	Department Meeting
Wed	06.04.2022		Thu	, 02.06.2022	IAE - III (for Final Year Students)
Thur	07.04.2022	Department Meeting	Fri	03.06.2022	

Day	Date	SCHEDULE	Day	Date	SCHEDULE
Fri	08.04.2022		Sat	04.06.2022	Parent Meeting
Sat	09.04.2022	Acitivity	Sun	05.06.2022	HOILDAY
Sun	10.04.2022	HOILDAY	Mon	06.06.2022	
Mon	11.04.2022		Tue	07.06.2022	
Tue	12.04.2022		Wed	08.06.2022	Department Meeting
Wed	13.04.2022	Department Meeting	Thu	09.06.2022	
Thur	14.04.2022		Fri	10.06.2022	
Fri	15.04.2022		Sat	11.06.2022	Unit - 5 Completed/ Activity
Sat	16.04.2022		Sun	12.06.2022	HOILDAY
Sun	17.04.2022	HOILDAY	Mon	13.06.2022	
Mon	18.04.2022		Tue	14.06.2022	
Tue	19.04.2022		Wed	15.06.2022	IAE - 3 (for 3rd & 2nd Students)
Wed	20.04.2022	Department Meeting	Thu	16.06.2022	IAE - 3 (for 3rd & 2nd Students)
Thur	21.04.2022		Fri	17.06.2022	IAE - 3 (for 3rd & 2nd Students)
Fri	22.04.2022	Student Refreshment Tour	Sat	18.06.2022	HOILDAY ( for Students)
Sat	23.04.2022	Activity	Sun	19.06.2022	HOILDAY
Sun	24.04.2022	HOILDAY	Mon	20.06.2022	Coaching Class for slow learners
Mon	25.04.2022		Tue	21.06.2022	Coaching Class for slow learners
Tue	26.04.2022		Wed	22.06.2022	Department Meeting

ACADEMIC COORDINATOR

HOD/AGRI 3/22



HEAD OF THE DEPARTMENT AGRICULTURE ENGINEERING EXCEL ENGINEERING COLLEGE KOMARAPALAYAM 637 303



17	Tuesday	21.09.2021	Class Committee Meeting	66	Monday	22.11.2021	
18	Wednesday	22.09.2021	IAE-I Question paper submission	67	Tuesday	23.11.2021	Class Committee Meetin
19	Thursday	23.09.2021	IAE-I Question paper scrutiny	68	Wednesday	24.11.2021	IAE-III Question pape submission
20	Friday	24.09.2021	scruting	69	Thursday	25.11.2021	IAE-III Question paper scrutiny
21	Saturday	25.09.2021	Activity-04	70	Friday	26.11.2021	
	Sunday	26.09.2021	HOLIDAY	71	Saturday	27.11.2021	Activity-10
22	Monday	27.09.2021	IAE-I Exam		Sunday	28.11.2021	HOLIDAY
23	Tuesday	28.09.2021	IAE-I Exam	72	Monday	29.11.2021	IAE-III EXAM
24	Wednesday	29.09.2021	IAE-I Exam	73	Tuesday	30.11.2021	IAE-III EXAM
25	Thursday	30.09.2021		74	Wednesday	01.12.2021	2. Submission of Attendence
26	Friday	01.10.2021	1.Submission of Attendance report for the Month September 2.Submission of Answer Script for the IAE-I	75	Thursday	02.12.2021	Poport
L.	Saturday	02.10.2021	Gandhi jayanthi	76	Friday	03.12.2021	property of
	Sunday	03.10.2021	HOLIDAY	77	Saturday	04.12.2021	Activity 11
27	Monday	04.10.2021	Submission of Result Analysis for IAE - I		Sunday	05.12.2021	HOLIDAY
28	Tuesday	05.10.2021	Presentation of IAE-I by HOD to II Year	78	Monday	06.12.2021	Analysis and presentation
29	Wednesday	06.10.2021	Presentation of IAE-I by HOD to III Year	79	Tuesday	07.12.2021	Presentation of IAE-III by HOD to II Year
30	Thursday	07.10.2021	Presentation of IAE-I by HOD to IV Year	80	Wednesday	08.12.2021	Presentation of IAE-III by HOD to III Year
31	Friday	08.10.2021	Parent meeting	81	Thursday	09.12.2021	Presentation of IAE-III by HOD to IV Year
32	Saturday	09.10.2021	Activity-05	82	Friday	10.12.2021	Parent meeting
	Sunday	10.10.2021	HOLIDAY	83	Saturday	11.12.2021	Activity 12 Last working day-theory class
33	Monday	11.10.2021	1		Sunday	12.12.2021	HOLIDAY
34	Tuesday	12.10.2021			Monday	13.12.2021	Submission of overall attendencs report

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35	Wednesday	13.10.202			Tuesday	14.12.2021	
	Thursday	14.10.2021	Ayutha pooja		Wednesday	15.12.2021	End semester theory exam
	Friday	15.10.2021	Vijaya Dasami		Thursday	16.12.2021	
36	Saturday	16.10.2021	Portion covered details		Friday	17.12.2021	
	Sunday	17.10.2021	HOLIDAY		Saturday	18.12.2021	
37	Monday	18.10.2021			Sunday	19.12.2021	HOLIDAY
38	Tuesday	19.10.2021			Monday	20.12.2021	
39	Wednesday	20.10.2021			Tuesday	21.12.2021	1
40	Thursday	21.10.2021	111		Wednesday	22.12.2021	
41	Friday	22.10.2021	Class Committee Meeting		Thursday	23.12.2021	
42	Saturday	23.10.2021	Activity-06  1.IAE-II Question paper		Friday	24.12.2021	
	Sunday	24.10.2021	HOLIDAY		Saturday	25.12.2021	Christmas
43	Monday	25.10.2021	IAE-II Question paper scrutiny		Sunday	26.12.2021	HOLIDAY
44	Tuesday	26.10.2021			Monday	27.12.2021	
45	Wednesday	27.10.2021	- 4		Tuesday	28.12.2021	
46	Thursday	28.10.2021	IAE-II EXAM		Wednesday	29.12.2021	
47	Friday	29.10.2021	IAE-II EXAM		Thursday	30.12.2021	National Level Workshop
48	Saturday	30.10.2021	IAE-II EXAM		Friday	31.12.2021	Value Added Course for Final Year
	Sunday	31.10.2021	HOLIDAY		Saturday	01.01.2022	
49	Monday	01.11.2021	1.Portion covered details 2.Submission of Attendancs report for month of October		Sunday	02.01.2022	Value Added Course for Final Year







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### Department of Agriculture Engineering Academic Year: 2021-22 ODD Sem

Academic Year : 2021-22 ODD Sem								
		ourse Plan 20AG305 - Surv	veving and Levi	olina				
Topic	Year / Sem : II / III SubTopics	Teaching Method	Teaching Aids	Date	Remarks			
	Definition - Classification	Lecture mode	Chalk and Talk Black Board	22.09.2021	Completed			
	Basic Principles	Lecture mode	Chalk and Talk, Black Board	23.09.2021	Completed			
	Equipment and asscessories for ranging and chaining	Lecture mode	Chalk and Talk, Black Board	24.09.2021	Completed			
LIMIT 4	Methods of ranging	Lecture mode	Chalk and Talk, Black Board	28.09.2021	Completed			
UNIT -1 FUNDAMENTALS AND CHAIN SURVEYING	Well conditioned trianges	Lecture mode	Videos and PPT	30.09.2021	Completed			
	Errors in linear measurement and their corrections	Lecture mode	Chalk and Talk, Black Board	30.09.2021	Completed			
	Obstackes - Traversing - Plotting - applications	Lecture mode	Chalk and Talk, Black Board	01.10.2021	Completed			
	Enlarging and reducing figures	Lecture mode	Chalk and Talk, Black Board	04.10.2021	Completed			
	Areas enclosed by straight lines - Irregular figures - digital planimeter	Lecture mode	Chalk and Talk, Black Board	04.10.2021	Completed			
*	Compass - Basic Principles	Lecture mode	Videos and PPT	05.10.2021	Completed			
	Types of compass	Lecture mode	Videos and PPT	07.10.2021	Completed			
UNIT - II COMPASS AND PLANE TABLE	Bearing - Systems and conversions	Lecture mode	Videos and PPT	11.10.2021	Completed			
	Sources of errors	Lecture mode	Videos and PPT	15.10.2021	Completed			
	Local attraction	Lecture mode	Chalk and Talk, Black Board	15.10.2021	Completed			
	Magentic Declination	Lecture mode	Videos and PPT	18.10.2021	Completed			
x da la	Dip-Traversing - Plotting adjustment of closing error - applications	Lecture mode	Videos and PPT	20.10.2021	Completed			

	Year / Sem : II / III	20AG305 - Surveying and Leveling					
Topic	SubTopics	Teaching Method	Teaching Aids	Date	Remarks		
	Plane table and its accessories - Merits and demerits	Lecture mode	Chalk and Talk, Black Board	20.10.2021	Completed		
	Radiation - intersection - Resection - Traversing - sources of error - applications	Lecture mode	Videos and PPT	22.10.2021	Completed		
	Theodolite	Lecture mode	Videos and PPT	22.10.2021	Completed		
	Types - Description	Lecture mode	Videos and PPT	22.10.2021	Completed		
	Horizontal and vertical angles	Lecture mode	Videos and PPT	25.10.2021	Completed		
	Temporary and permanent adjustments	Lecture mode	Videos and PPT	25.10.2021	Completed		
UNIT - III THEODOLITE	Heights and distances	Lecture mode	Chalk and Talk, Black Board	26.10.2021	Completed		
AND MODERN SURVEYING	Tangential and Stadia Taceometry	Lecture mode	Chalk and Talk, Black Board	31.10.2021	Completed		
	Subtense methods	Lecture mode	Chalk and Talk, Black Board	31.10.2021	Completed		
	Stadia constants - Anallactic lens - Traversing - Gale's table	Lecture mode	Chalk and Talk, Black Board	01.09.2021	Completed		
	Total station - Global Positioning Systems (GPS)	Lecture mode	Chalk and Talk, Black Board	02.09.2021	Completed		
	Level line	Lecture mode	Chalk and Talk, Black Board	03.09.2021	Completed		

	Year / Sem : II / III	20AG305 - Surveying and Leveling					
Topic	SubTopics	Teaching Method	Teaching Aids	Date	Remarks		
	Horizonta line - Datum Bench marks	Lecture mode	Chalk and Talk, Black Board	05.10.2021	Completed		
	Levels and Staves	Lecture mode	Chalk and Talk, Black Board	05.10.2021	Completed		
HNIT IVI EVEL ING	Emporary and permenent adjustments	Lecture mode	Chalk and Talk, Black Board	07.10.2021	Completed		
UNIT - IV LEVELING	Methods of leveling	Lecture mode	Chalk and Talk, Black Board	07.10.2021	Completed		
	Fly levelling check leveling	Lecture mode	Chalk and Talk, Black Board	10.11.2021	Completed		
	Procedure in levelling - Booking - Reduction-Curvature and refraction	Lecture mode	Chalk and Talk, Black Board	10.11.2021	Completed		
	Reciprocal levelling - sources of errors in leveling - precise levelling	Lecture mode	Chalk and Talk, Black Board	12.11.2021	Completed		
	Logitudinal and Cross - section - Plotting	Lecture mode	Chalk and Talk, Black Board	17.11.2021	Completed		
	Contouring - Methods	Lecture mode	Chalk and Talk, Black Board	19.11.2021	Completed		
	Characteristics and uses of contours	Lecture mode	Chalk and Talk, Black Board	25.11.2021	Completed		
UNIT - V LEVELING APPLICATIONS	Plotting	Lecture mode	Chalk and Talk, Black Board	25.11.2021	Completed		
APPLICATIONS	Methods of interpolating contours	Lecture mode	Chalk and Talk, Black Board	26.11.2021	Completed		
	computation of cross - sectional area and volumes	Lecture mode	Chalk and Talk, Black Board	2611.2021	Completed		
	Earthwork calculations	Lecture mode	Videos and PPT	29.11.2021	Completed		
	Capacity of reservoirs	Lecture mode	Chalk and Talk, Black Board	30.11.2021	Completed		

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#### **Department of Agriculture Engineering**

Academic Year: 2021-22 EVEN Sem

	Course Plan								
Year / S	Sem: III / VI Al8005 - Ag	riculture Econom	ics and Farm M	lanagement					
Topic	SubTopics	Teaching Method	Teaching Aids	Date	Remarks				
	Agricultureal Economics - Definition and scope	Lecture mode	Chalk and Talk, Black Board	08.03.2022	Completed				
	Farm Management - Definition and scope	Lecture mode	Chalk and Talk, Black Board	09.03.2022	Completed				
	Classification of farms	Lecture mode	Chalk and Talk, Black Board	09.03.2022	Completed				
	Basic concepts in farm management	Lecture mode	Chalk and Talk, Black Board	10.03.2022	Completed				
UNIT - I FARM MANAGEMENT	Relationship between farm management and other basic sciences	Lecture mode	Videos and PPT	15.03.2022	Completed				
	Farm Layout	Lecture mode	Chalk and Talk, Black Board	16.03.2022	Completed				
Specificação do como de como d	Farm records and accounts	Lecture mode	Chalk and Talk, Black Board	16.03.2022	Completed				
	Farm appraisal techquies	Lecture mode	Chalk and Talk, Black Board	22.03.2022	Completed				
ta domaniji ji t	Valuation	Lecture mode	Chalk and Talk, Black Board	23.03.2022	Completed				
	Basic laws of economics	Lecture mode	Chalk and Talk, Black Board	23.03.2022	Completed				

Topic	SubTopics	Teaching Method	Teaching Aids	Date	Remark
	Equi-marginal teturns - Product relationship	Lecture mode	Chalk and Talk, Black Board	24.03.2022	Complete
	Law of increasing, diminishing & constant returns	Lecture mode	Chalk and Talk, Black Board	29.03.2022	Complete
	Demand and supply concepts	Lecture mode	Videos and PPT	30.03.2022	Complete
UNIT - II LAWS OF ECONOMICS	Production function - definition & types - Production function curves	Lecture mode	Videos and PPT	30.03.2022	Complete
	Optimum level of input use	Lecture mode	Chalk and Talk, Black Board	31.03.2022	Completed
	Economies of scale - external and internal econimies & diseconomies	Lecture mode	Videos and PPT	05.04.2022	Completed
	Cost conepts - types- Opportunity cost - Comparison of costs	Lecture mode	Chalk and Talk, Black Board	05.04.2022	Completed
	Factor relationship - Concepts	Lecture mode	Videos and PPT	06.04.2022	Completed
	Principle of subsitution - isoquant curve	Lecture mode	Chalk and Talk, Black Board	07.04.2022	Completed
	Isocline, Expansion path, Ridge line	Lecture mode	Chalk and Talk, Black Board	12.04.2022	Completed
	Product - Product relationship	Lecture mode	Chalk and Talk, Black Board	13.04.2022	Completed
	Production possibility curve, Isorevenue line	Lecture mode	Chalk and Talk, Black Board	13.04.2022	Completed
UNIT - III COST	Optimum combination of Outputs	Lecture mode	Videos and PPT	20.04.2022	Completed
CURVES	Cost curves - Optimum input and output levels	Lecture mode	Chalk and Talk, Black Board	21.04.2022	Completed

Торіс	SubTopics	riculture Econom Teaching Method	Teaching Aids	Date	Remarks
	Factor - Factor Relationship - Least cost combination of inputs	Lecture mode	Videos and PPT	26.04.2022	Complete
	Estimation of cost of cultivation and cost of production of crops - annual & perennial crops	Lecture mode	Chalk and Talk, Black Board	27.04.2022	Complete
	Preparation of interview schedule and farm visit for data collection	Lecture mode	Chalk and Talk, Black Board	28.04.2022	Complete
	Concept of risk and uncertainty	Lecture mode	Chalk and Talk, Black Board	02.06.2022	Complete
	Causes for uncertainty	Lecture mode	Chalk and Talk, Black Board	02.06.2022	Complete
	Management decisions to reduce risks in productin process	Lecture mode	Chalk and Talk, Black Board	07.06.2022	Complete
UNIT - IV	Management of resources- Types of resources - Land, labour, capital and measurement of their efficiencies	Lecture mode	Chalk and Talk, Black Board	07.06.2022	Complete
MANAGEMENT OF RESOURCES	Mobilization of farm resources	Lecture mode	Chalk and Talk, Black Board	07.06.2022	Complete
	Cost of machinery and maintenance	Lecture mode	Chalk and Talk, Black Board	08.06.2022	Complete
	Break even analysis	Lecture mode	Chalk and Talk, Black Board	08.06.2022	Complete
	Investment analysis	Lecture mode	Chalk and Talk, Black Board	09.06.2022	Complete
	Discounting Techniques	Lecture mode	Chalk and Talk, Black Board	09.06.2022	Complete

Year / Se	m: III / VI Al8005 - Agri	culture Economi	cs and Farm Ma	anagement	
Topic	SubTopics	Teaching Method	Teaching Aids	Date	Remarks
	Farm Management - need of analysis	Lecture mode	Chalk and Talk, Black Board	10.06.2022	Completed
	Farm financial analysis	Lecture mode	Chalk and Talk, Black Board	12.06.2022	Completed
	Balance sheet - Income statement	Lecture mode	Chalk and Talk, Black Board	12.06.2022	Completed
UNIT - V FARM MANAGEMENT AND	Cash flow analysis	Lecture mode	Chalk and Talk, Black Board	13.06.2022	Completed
FINANCIAL ANALYSIS	Farm investment analysis- Time comparison principles	Lecture mode	Chalk and Talk, Black Board	13.06.2022	Completed
	Farm planning - Elements of farm planning - Whole farm planning and partial planning	Lecture mode	Chalk and Talk, Black Board	14.06.2022	Completed
	Farm level management system	Lecture mode	Videos and PPT	14.06.2022	Completed
	Estimation of credit - Examples of farm planning and budgeting	Lecture mode	Chalk and Talk, Black Board	14.06.2022	Completed

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#### KOMARAPALAYAM - 637303

## Department of Agriculture Engineering Academic Year : 2021-22 ODD Sem

		e Plan		h-w		
Year / Sem : II / IV 20AG401 -Heat and Mass transfer for Agriculture Engineering						
Topic	SubTopics	Teaching Method	Teaching Aids	Date	Remarks	
	Concepts – Mechanism of heat transfer – Conduction, Convection and radiation – General differential equation of heat conduction	Lecture mode	Chalk and Talk, Black Board	20.01.2022	Completed	
	Cartesian and cylindrical coordinates – one dimensional steady state heat	Lecture mode	Videos and PPT	21.01.2022	Completed	
	Conduction through plane walls, cylinders and spherical systems	Lecture mode	Chalk and Talk, Black Board	24.01.2022	Completed	
UNIT - 1 CONDUCTION	Extended surfaces	Lecture mode	Chalk and Talk, Black Board	27.01.2022	Completed	
	Conduction with internal heat generation	Lecture mode	Videos and PPT	28.01.2022	Completed	
	Unsteady heat conduction	Lecture mode	Chalk and Talk, Black Board	28.01.2022	Completed	
	Problems – Lumped heat analysis	Lecture mode	Chalk and Talk, Black Board	07.03.2022	Completed	
	Lumped analysis – Semi infinite solid	Lecture mode	Chalk and Talk, Black Board	07.03.2022	Completed	
	Lumped analysis – Semi infinite slab	Lecture mode	Chalk and Talk Black Board	14.03.2022	Completed	
111-1111-1111	Basic concepts, Convective heat transfer coefficients, dimensional analysis	Lecture mode	Videos and PPT	18.04.2022	Completed	

Year / Sem : II / IV 20AG401 -Heat and Mass transfer for Agriculture Engineering					
Topic	SubTopics	Teaching Method	Teaching Aids	Date	Remarks
	External flow – flow over plates	Lecture mode	Videos and PPT	01.04.2022	Completed
Anner Anne	Internal flow – cylinders and spheres	Lecture mode	Videos and PPT	07.04.2022	Completed
	Free convection – dimensional analysis	Lecture mode	Videos and PPT	08.04.2022	Completed
UNIT - II CONVECTION	Flow over vertical plates, horizontal plate	Lecture mode	Chalk and Talk, Black Board	09.04.2022	Completed
	Flow over cylinders and spheres	Lecture mode	Videos and PPT	12.04.2022	Completed
	Boundary layer concept, Laminar flow and turbulent flow	Lecture mode	Videos and PPT	21.04.2022	Completed
	Flow over vertical and plates	Lecture mode	Chalk and Talk, Black Board	21.04.2022	Completed
	Tutorial problems - sloved	Lecture mode	Videos and PPT	22.04.2022	Completed
	Nusselts theory of condensation	Lecture mode	Videos and PPT	22.04.2022	Completed
	Pool boiling, flow boiling	Lecture mode	Videos and PPT	29.04.2022	Completed
	Correlations in boiling and condensation	Lecture mode	Videos and PPT	13.05.2022	Completed
	Problems solved – Boiling & Condensation	Lecture mode	Videos and PPT	13.05.2022	Completed
UNIT III PHASE CHANGE HEAT TRANSFER AND HEAT EXCHANGERS	Types of heat exchangers	Lecture mode	Chalk and Talk, Black Board	14.05.2022	Completed
	LMTD method of heat exchanger analysis	Lecture mode	Chalk and Talk, Black Board	20.05.2022	Completed
	Problems solved in LMTD	Lecture mode	Chalk and Talk, Black Board	20.05.2022	Completed

Topic	SubTopics	Teaching Method	Teaching Aids	Date	Remarks
	Fouling factors	Lecture mode	Chalk and Talk, Black Board	27.05.2022	Complete
	Problems solved – NTU method	Lecture mode	Chalk and Talk, Black Board	27.05.2022	Complete
	Basic concepts, law of radiation	Lecture mode	Chalk and Talk, Black Board	07.03.2022	Complete
	Stefan Boltasmann law, Kirchhoff law	Lecture mode	Chalk and Talk, Black Board	09.03.0222	Complete
	Black body radiation	Lecture mode	Chalk and Talk, Black Board	10.03.2022	Complete
	Grey body radiation shape factor alagebra	Lecture mode	Chalk and Talk, Black Board	12.03.2022	Complete
UNIT IV RADIATION	Problems on absorptivity, reflectivity, transmissivity and emissive power	Lecture mode	Chalk and Talk, Black Board	14.03.2022	Complete
	Electrical analogy, Radiation shields	Lecture mode	Chalk and Talk, Black Board	16.03.2022	Complet
	Problems on shape factor and radiation shield	Lecture mode	Chalk and Talk, Black Board	17.03.2022	Complet
1. (1)	Problems on heat exchange between two large parallel planes	Lecture mode	Chalk and Talk Black Board	21.03.2022	Comple
	Introduction to gas radiation	Lecture mode	Chalk and Talk Black Board	22.03.2022	Comple
	Basic Concepts	Lecture mode	Chalk and Talk Black Board	27.05.2022	Comple
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Year / Sen	Year / Sem : II / IV 20AG401 -Heat and Mass transfer for Agriculture Engineering						
Topic	SubTopics	Teaching Method	Teaching Aids	Date	Remarks		
	Diffusion mass transfer	Lecture mode	Chalk and Talk, Black Board	27.05.2022	Completed		
	Fick's Law of diffusion	Lecture mode	Chalk and Talk, Black Board	30.05.2022	Completed		
	Steady state molecular diffusion	Lecture mode	Chalk and Talk, Black Board	02.06.2022	Completed		
HAUT V MACC	Problems on Molar concentrations	Lecture mode	Chalk and Talk, Black Board	03.06.2022	Completed		
UNIT V MASS TRANSFER	Problems on Members	Lecture mode	Chalk and Talk, Black Board	03.06.2022	Completed		
	Convective mass transfer	Lecture mode	Videos and PPT	06.06.2022	Completed		
	Problems on convective mass transfer	Lecture mode	Chalk and Talk, Black Board	06.06.2022	Completed		
	Problems on flat plate	Lecture mode	Videos and PPT	13.06.2022	Completed		
	Momentum, heat and mass transfer analogy	Lecture mode	Chalk and Talk, Black Board	13.06.2022	Completed		
	Convection mass transfer	Lecture mode	Chalk and Talk, Black Board	14.06.2022	Complete		

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#### **Department of Agriculture Engineering**

Academic Year: 2021-22 EVEN Sem

	Cour	se Plan					
Year / Sem : I'	Year / Sem : IV / VIII Al8702 - Remote Sensing and Geographical information system						
Topic	SubTopics	Teaching Method	Teaching Aids	Date	Remarks		
	Definition - Historical backgroung - Components of remote sensing	Lecture mode	Chalk and Talk, Black Board	21.09.2021	Completed		
	Energy source, electromagnetic spectrum, radiation principle	Lecture mode	Chalk and Talk, Black Board	22.09.2021	Completed		
	Platforms and sensors - Active and passive remote sensing interference	Lecture mode	Chalk and Talk, Black Board	22.09.2021	Completed		
UNIT - 1 CONCEPTS OF REMOTE SENSING	Atomspheric effects on remote sensing	Lecture mode	Chalk and Talk, Black Board	23.09.2021	Completed		
	Energy source, electromagnetic spectrum, radiation principle	Lecture mode	Videos and PPT	24.09.2021	Completed		
AND STELLITES	Reflectance, spectral signatures for water, soil and vegation	Lecture mode	Chalk and Talk, Black Board	28.09.2021	Completed		
	Satellites - types	Lecture mode	Chalk and Talk, Black Board	29.09.2021	Completed		
	Sunsynchronous - Geo synchronous remote sensing satellites - LANDSAT, SPOT & IRS	Lecture mode	Chalk and Talk, Black Board	30.09.2021	Completed		
	Resolution - spectral, spatial, radiometric and temporal resolution - Recent satellites with its applications	Lecture mode	Chalk and Talk, Black Board	01.10.2021	Completed		
	Data products - based on level of processing	Lecture mode	Chalk and Talk, Black Board	05.10.2021	Completed		

Topic	SubTopics	Teaching Method	Teaching Aids	Date	Remarks
	O/P - Scale - area/coverage	Lecture mode	Videos and PPT	06.10.2021	Complete
	data availability - data ordering - data price	Lecture mode	Videos and PPT	07.10.2021	Complete
	Image interpretation - Visual interpretation elements	Lecture mode	Videos and PPT	08.10.2021	Completed
UNIT - II DATA PRODCUTS AND IMAGE ANALYSIS	Interpretation key	Lecture mode	Chalk and Talk, Black Board	12.10.2021	Completed
	Digital image processing	Lecture mode	Chalk and Talk, Black Board	12.10.2021	Completed
	Image enhancement - image - classification	Lecture mode	Videos and PPT	13.10.2021	Completed
	Supervised and unspervised	Lecture mode	Chalk and Talk, Black Board	19.10.2021	Completed
	Vegation Indices	Lecture mode	Videos and PPT	20.10.2021	Completed
	Definition - Map and their influences	Lecture mode	Chalk and Talk, Black Board	21.10.2021	Completed
	Characteristics of Map	Lecture mode	Videos and PPT	22.10.2021	Completed
	Elements - Map scale	Lecture mode	Videos and PPT	26.10.2021	Completed
	Projection, Coordinate systems	Lecture mode	Videos and PPT	27.10.2021	Completed
NIT - III CONCEPTS	Sources of spatial data	Lecture mode	Chalk and Talk, Black Board	29.10.2021	Completed
OF GIS	History and development of GIS	Lecture mode	Chalk and Talk, Black Board	09.11.2021	Complete
	Definition	Lecture mode	Chalk and Talk, Black Board	11.11.2021	Complete
	Components	Lecture mode	Chalk and Talk, Black Board	11.11.2021	Complete

Year / Sem : IV / VIII Al8702 - Remote Sensing and Geographical information system							
Topic	SubTopics	Teaching Method	Teaching Aids	Date	Remarks		
d. , , t.	Hardware and Software	Lecture mode	Chalk and Talk, Black Board	12.11.2021	Completed		
	Data - Spatialm Non-Spatial - Database models - Hierarchical network	Lecture mode	Chalk and Talk, Black Board	16.11.2021	Completed		
	Relational and object Oriented Data models - Raster and Vector	Lecture mode	Chalk and Talk, Black Board	17.11.2021	Completed		
	Methods of Data input - Data Editing - Files and formats - Data structure	Lecture mode	Chalk and Talk, Black Board	18.11.2021	Completed		
	Data structure - Data compression	Lecture mode	Chalk and Talk, Black Board	19.11.2021	Completed		
UNIT - IV DATA INPUT	Introductionto analysis - Measurements - Queries - Reclassification	Lecture mode	Chalk and Talk, Black Board	23.11.2021	Completed		
AND ANALYSIS	Simple spatial analysis- Buffering	Lecture mode	Chalk and Talk, Black Board	24.11.2021	Completed		
helmo ha	Neighboring functions - Map overlay	Lecture mode	Chalk and Talk, Black Board	25.11.2021	Completed		
	Vector and raster - Spatial interpolation	Lecture mode	Chalk and Talk, Black Board	26.11.2021	Completed		
	Modelling in GIS - Digital Elevation Modelling - Expert systems	Lecture mode	Chalk and Talk, Black Board	26.11.2021	Completed		
	Expert Systems	Lecture mode	Chalk and Talk, Black Board	27.11.2021	Completed		
	Crop Acreage estimation - Estimation of Crop water requirement	Lecture mode	Chalk and Talk, Black Board	30.11.2021	Completed		
	Crυρ condition - Soil mapping	Lecture mode	Chalk and Talk, Black Board	30.11.2021	Completed		

Year / Sem : I	V / VIII AI8702 - Remote	Sensing and Ge	ensing and Geographical information system			
Topic	SubTopics	Teaching Method	Teaching Aids	Date	Remarks	
UNIT - V APPLICATION OF RS AND GIS	classification of soil with digital numbers - soil erosion mapping	Lecture mode	Chalk and Talk, Black Board	01.12.2021	Completed	
	reservoir sedimentation using image processing	Lecture mode	Chalk and Talk, Black Board	01.12.2021	Completed	
	Inventory of water resources - Water quality assessment	Lecture mode	Chalk and Talk, Black Board	01.12.2021	Completed	
	Application of Remote Sensing and GIS in Precision Agriculture	Lecture mode	Chalk and Talk, Black Board	02.12.2021	Completed	
	Monitor Crop Health	Lecture mode	Chalk and Talk, Black Board	02.12.2021	Completed	
	Management Decision Support systems	Lecture mode	Chalk and Talk, Black Board	03.12.2021	Completed	

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