	RGPV(DiplomaWing)Bhopal				SEM	ESTER	RTEACH	HINGLE	ARNIN	G&A	SSESSN	/IENTPL	AN		FORM	ат-6									
N	AMEO	F PROGR	AMME	THREEY	EARSD	IPLO	MA		SCHEMI	E	OBE IMPLEMENTINGYEAR			2020	-21										
В	RANCH	ICODE	r	NAMEOF BE	RANCH	A	GRIC	CULTU	JRE EN	IGG / A	GRICU	LTUR	AL EN	GG	SEMESTER		FIFTH	1							
			COUR	RSEDETAILS				T-L	PLAN				AS	SESSMEN'	TPLAN										
S.										Inte	rnal		Extern	alAssessme	ent(Unive	ersityExan	n)	Grand							
No					PAPE	N o.	No. of	Total T-L	T-L Hrs.	Assess	sment		TheoryPa	aper	Pi	racticalEx	:am*	Total							
	COURSE CODE	COURSE NAME		COURSE NAME CREDITS R CODE of CO s	СО		СО		со		со		со		Hrs.	Hrs. /Week	No. of LOs	Total Marks	No. of LOs	Total Marks	Duration in Hrs	No.of LOs	Total Marks	Duration in Hrs	
1	501	IRRIGAT ENGINE		4	6908	08	16	90	06	04	30	12	70	03:00				100							
2	502	FARM MACHIN	NERY	4+2	7316	05	11	105	07	01	30+20	07	70	03:00	01	30	03:00	150							
3	503	AGRICU PRODUC TECHNO		4+2	7317	04	06	85	07	01	30+20	04	70	03:00	01	30	03:00	150							
4	5 04	PROJEC MANAG	T	4+2	7318	08	08	125	09	02	30+20	05	70	03:00	01	30	03:00	150							
5	505	PROFES DEVELO	SIONAL DPMENT-V	02 V		04	06	60	04	06	75							75							
			TOTAL	I														625							
											No.	ofTheory	/Papers	04	No.	.ofPractio	calExams	03							

^{*}ExamforLOs(Psycho+ Affect.)#(C+P) =cognitive+ Psychomotor

RGPV (DIPLOMA WING) BHOPAL

OBE CURRICULUM FOR THE COLIDSE

FORMAT-3 No. 1/3

Sheet

BHUPAL				THE COURSE				NO. 1/5
Branch Agricultural Engineering					S	emester		5 th
Course	Code	501/6	5908	Course Name			IRRIGATION ENGINEERING	
Course	Outco	me 1		n irrigation engineering and its method rology.	ds and	principal	Teach Hrs	Marks
Learnin	g Outc	ome 1		be irrigation engineering, project purp ods of irrigation	ose an	d	6	10
Contents			Definition – Irrigation and irrigation engineering, advantages of irrigation, ill effects of over irrigation, and types of irrigation project purpose wise and administrative wise, Methods of irrigation. Analyze data for irrigation project, supervision of reservoir and canal structure, weir and barrages, lift irrigation scheme, its suitability, advantages and limitations Capacity of reservoir.					
Method	of Asse	ssment	External : End semester Examination-Pen Paper Test					
Learning Outcome 2		ome 2	Understand the principle of hydrology and canal concept			6	06	
Contents			Principle of Hydrology Relation between water and crop Rainfall, Crops, Dams Weir, Barrages, Area Capacity curve Capacity Canal Concept of runoff duty delta and base period					
Method of Assessment			Intern	al: Mid Semester Exam I - Pen paper te	st/Ass	ignment		

Course Outcome 2	Explain hydrological cycle and define rain fall and run off				
Learning Outcome 1	Understand the definition of rain fall, average rain fall and its calculations	6	06		
Hydrological cycle, Definition of rainfall, rain gauge and rain gauge station, types of rain gauges (names only) average annual rain fall and its calculation definition of run off, factor affecting run off, calculation of run off by run off coefficient, English formula, Stranges and Binnie's tables and curves Maximum flood discharge and methods of calculation. Unit hydrograph Yield and Dependable yield and methods calculation.					
Method of Assessment	Method of Assessment External: End semester Examination-Pen Paper Test				
Learning Outcome 2	Understand the definition of run off and its calculations using different methods	6	06		
Contents Contents Definition of run off, factor affecting run off, calculation of run off by run off coefficient, English formula, Stranges and Binnie's tables and curves. Maxin flood discharge and methods of calculation. Unit hydrograph Yield and Dependable yield and methods calculation.					

Method of Assessment	Internal: Mid Semester Exam I - Pen paper test/Assignment				
Course Outcome 3	Describe crops and cropping seasons in Madhya Pradesh and its related definitions				
Learning Outcome 1	Explain crop period, base period and duty delta with their relations 6				
	Cropping seasons and crop in Madhya Pradesh. Definition – Crop period base period Duty Delta , factors affecting Duty , relation between Duty Delta and base period				
Contents					
Method of Assessment	External : End semester Examination-Pen Paper Test				
Learning Outcome 2	Explain assessment of irrigation water	6	06		
Contents	Contents Definition – CCA, GCA, IA, intensity of irrigation time factor capacity factor. Crop rotation. Problems on water requirement and capacity of canal. Assessment of irrigation water				
Method of Assessment	d of Assessment External: End semester Examination-Pen Paper Test				

Course Outcome 4	Describe complete process of investigation and reservoir planning					
Learning Outcome 1	Understand and analyze data collected for irrigation project.	6	06			
Contents Survey for irrigation project data collected for irrigation project. Area capacity curve, silting of reservoir, rate of silting, factors affecting silting,						
Method of Assessment	External : End semester Examination-Pen Paper Test					
Learning Outcome 2	Explain methods to control levels in reservoir	6	06			
Methods to control levels and respective storage in reservoir. Fixing control levels Contents						
Method of Assessment	ethod of Assessment External : End semester Examination-Pen Paper Test					

Course Outcome 5 Describe types of dams, methods of dam constructions and spliiways			
Learning Outcome 1	Explain Earthen dams and Gravity dams with respect to various factors like seepage and construction	6	06

Contents	Types of dams – Earthen dams and Gravity dams (masonry and concrete) Comparison of earthen and gravity dams with respect to foundation, seepage, construction and maintenance Earthen Dams – Components and their function, typical cross section seepage through embankment and foundation seepage control though embankment and foundation.					
Method of Assessment	Method of Assessment External : End semester Examination-Pen Paper Test					
Learning Outcome 2	Explain failure and remedial measures of earthen dam and detailed profile of gravity dams and also define the spillways and its types	6	06			
Methods of constructions, types of failure of earthen dams and remedial measures. Gravity Dams Theoretical and practical profile, typical cross section, drainage gallery, joint in gravity dam, high dam and low dam Spillways-Definition, function, location and components. Emergency and services, ogee spillway and bar type spillway, discharge over spillway. Spillway with and without gates						
Method of Assessment	External : End semester Examination-Pen Paper Test					

		1			
Course Outcome 6	Course Outcome 6 Describe small irrigation structure, bandhara, percolation tanks and lift irrigation				
Learning Outcome 1	Explain Bandhara irrigation layout and importance of percolation tanks	5	06		
Advantages and disadvantages of Bandhara irrigation layout and componer parts, solid and open Bandhara. Percolation Tanks — necessity an importance, selection of site.					
Method of Assessment	Method of Assessment Internal : Pen Paper Test/ assignments				
Learning Outcome 2	Learning Outcome 2 Explain lift irrigation scheme with its design specifications and small structures like stop dam		06		
Contents	Layout of lift irrigation scheme. Irrigation department standard design and specification. Small irrigation structures, like Stop dam, stop dam cum cause way, ring bund, small ponds				
Method of Assessment	Internal: Mid Semester Exam I - Pen paper test/Assignment				
Course Outcome 7	Describe diversion head works.				
Learning Outcome 1	Understand weirs and the layout of diversion head works wits and their functions	5	06		
	Weirs – components parts, unction and types, layout of diversion head work wits its components and their function, canal head regular, silt excluders an silt ejectors.				
Contents					

Method of Assessment External : End semester Examination-Pen Paper Test				
Learning Outcome 2 Describe barrages with standard design speedifications 5				
Contents	Barrages – components and their function. Difference and barrage irrigation department standard design and spec			
Method of Assessment External : End semester Examination-Pen Paper Test				

Course Outcome 8	Describe classification and design of canals ;and C.D. works				
Learning Outcome 1	Explain canal design	5	06		
Classification of canals according to alignment and position in the canal network. Design of most economical canal section. Contents					
Method of Assessment	t External : End semester Examination-Pen Paper Test				
Learning Outcome 2	Learning Outcome 2 Explain purpose, types and advantages of canal lining and various C.D. works				
Canal lining – Definition, purpose, types of canal lining advantages of canal lining properties of good canal lining material. CD. works- different C.D. works canal falls, escapes, cross regulators and canal outlets Contents					
Method of Assessment External : End semester Examination-Pen Paper Test					

Suggested Learning Resources:

S.No.	Title	Author	Publisher
1	Irrigation and water power Engineering	B.C. Punmia	Laxmi Publication, Delhi.
2.	Introductory Irrigation Engineering	B.C. Punmia	Laxmi Publication, Delhi.
3	Fundamental principle of Irrigation Engineering	V.B. Priyani	Charotar Book Stall

4	Fundamental principles of Irrigation Engineering	Bharat Singh	Nem Chand & Bros.,India
5	Irrigation Engineering. & Hydraulic structures	S.K. Garg	Khanna publisher, New Delhi.
6	Principles of Irrigation. Engineering	S.K. Verma	
7.	Irrigation Engineering	Birdie.	Dhanpat Rai Publishing Company Private Limited-New Delhi

RGPV (DIPLOMA WING) BHOPAL

OBE CURRICULUM FOR THE COURSE

FORMAT-3

Sheet No. 1/3

BHOPAL			THE COURSE				FORMAT	[- 5	No. 1/3			
Branch			Agricultural Engineering Semes			Agricultural Engineering Semester 5 ^t		5 th				
Course Code 502/		502/7	7316			C	ourse N	Name			FARM MACH	INARY
Course	Outco	ome 1	Descri	be clas	sificati	on and p	rinciple	s of farm	mach	ines	Teach Hrs	Marks
Learnin	g Outo	ome 1	Explair	n princi	pal of	operatio	n and se	election o	f mac	hines	10	20
Co	Contents		of con	structi	on & l	heat trea	atment.	Principle	es of o	f farm mad operation a ities & eco	and se	lection of
Method	Method of Assessment		Extern	al : Enc	l seme	ster Exai	minatio	n-Pen Pap	er Te	st		
Learning Outcome 2		come 2	Calculations of field capacity and field efficiency 10									
Contents				irch ha	II	and		effi	it to implei ciency ements		shed and	
Method of Assessment		Interna	viva v	oce/ P	ractical f	iles and	assignme	ent				

Course Outcome 2	Explain various tillage tools and earth moving equipments		
Learning Outcome 1	Understand the design and draft measurement of tillage tools.	10	10
Contents	Tillage; primary and secondary tillage equipment. Forces acti tools and their designs. Hitching systems and controls. Draft measurement of tillage equipment,	ng on til	lage
Method of Assessment	External : End semester Examination-Pen Paper Test		
Learning Outcome 2	Understand working principles of moving equipment like Trencher	10	10
Contents	Earth moving equipment – their construction & working princi Bulldozer, Trencher, Elevators etc.	ples viz.,	
Method of Assessment	Internal: Mid Semester Exam I - Pen paper test/Assignment		

Course Outcome 3	Describe different farm equipments		
Learning Outcome 1	Understand the calibration and adjustments of sowing, planting & transplanting equipments	10	10
Contents	Sowing, planting & transplanting equipment - their adjustments.	calibratio	on and
Method of Assessment	External : End semester Examination-Pen Paper Test		
Learning Outcome 2	Describe fertilizer application equipments	10	10
Contents	Fertilizer application equipment including farm yard manure	applicato	or.
Method of Assessment	External : End semester Examination-Pen Paper Test		

Course Outcome 4	Describe weed control, Inter-culture and plant protection equipments			
Learning Outcome 1	Explain weeders, earting and interculture equipment, sprayers 10 and their calibration			
Contents	Weed control, Inter-culture and Plant protection equipment – weeders (manual, animal and power operated weeders) earthing and inteculture equipment, sprayers and dusters, their calibration, selection, constructional features of different components and adjustments.			
Method of Assessment	External : End semester Examination-Pen Paper Test			
Learning Outcome 2	Understand calibration, draft and fuel consumption of different equipments; and study of sprayers, dusters, etc.			
Contents	 Calibration of seed drills Draft& fuel consumption measurement for different implements Study of sprayers, dusters, measurement of nozzle discharg field capacity etc. 			
Method of Assessment	Internal viva voce/ Practical files and assignment			

Course Outcome 5	Describe Principles & types of cutting mechanisms		
Learning Outcome 1	Explain construction and adjustments of shear and impact-type cutting mechanisms and different harvesting machinery.	10	10

Contents	Principles & types of cutting mechanisms. Construction & adjustments of shear & impact-type cutting mechanisms. Crop harvesting machinery: mowers, windrowers, reapers, reaper binders, combine harvesters and forage harvesters. Forage chopping & handling equipment.					
Method of Assessment	External : End semester Examination-Pen Paper Test					
Learning Outcome 2	Explain Maize harvesting and shelling equipment, Root crop harvesting equipment, etc.	10	10			
Contents	Specialized harvesting equipment such as Maize harvesting & shelling equipment, Root crop harvesting equipment-potato, groundnut etc., Cotton picking & Sugarcane harvesting equipment.					
Method of Assessment	External : End semester Examination-Pen Paper Test					
Learning Outcome 3	Explain and identify the different types of implements and their use.	5				
Contents	Visit to Agricultural implements manufacturing industry to identify the different types of implements and their use.					
Method of Assessment	External : Industry visit.					

Suggested Learning Resources:

S.No.	Title	Author	Publisher
1	Principles of Farm machinery	Kepner R.A., Bainer R & Berger EL	AVI Publ. Co
2.	Principles of Agricultural Engineering	Michael A M and Ojha, T.P.	Jain Brothers, New Delhi
3	Farm Machines and Equipments		Dhanpat Rai Publishing Company Private Limited-New Delhi
4	Machinery – An approach. Standard Publishers and Distributors	, '	Standard Publishers and Distributors

5	Agricultural Engineering (Through Worked out examples),	RadheyLal and A.C.Dutta	SarojPrakakshan, Allahabad
6	Elements of Agricultural Engineering	Sahay J.	Irshad Ali, Kitab Mahal, Sarojini Naidu Marg, Allahabad
7.	Elements of Farm Machinery	Srivastav AC	Saroj Prakashan, Allahabad

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OBE CURRICULUM FOR THE COURSE

FORMAT-3

Sheet No. 1/3

Branch		Agricultural Engineering Semester				5	th
Course Code 503/7		7317	, Course Name		AGRICULTURE PRODUCTION TECHNOLOGY -II		
Course Outcome 1		Explain the concept of different cropping methods			Teach Hrs	Marks	
Loarning Outcome 1			stand the concept of mono-cropping douking, etc. and cropping intensity	ole-	15	25	
Contents		cropp	ept of Mono-cropping, Double cropping, Ning, Intercropping, Mixed cropping, Allewing intensity, Land equivalent ratio.			•	
Method of Assessment Ex		Extern	al : End semester Examination-Pen Paper	Test			

Course Outcome 2	Describe environmental Issues and their Impact on Agriculture, and monitoring indices					
Learning Outcome 1	Explain issues like global climate change and emission of green house gases with their impact.	15	15			
	Environmental Issues and their Impact on Agriculture: Globa	l climate	<u>.</u>			
change, emission of green house gases from Indian agriculture, Contents						
Method of Assessment	Internal: Mid Semester Exam I - Pen paper test/Assignment					
Learning Outcome 2	Explain different monitoring indices like Air quality index, Environmental performance index, etc.	10	10			
Contents	Different indices for environmental monitoring such as- Air quality index (AQI), Biocide residue index (BRI), Ecological footprint, Environmental sustainability index (ESI), Environmental performance index (EPI), Environmental vulnerability index (EVI), Global warming potential (GWP), P index, T value (Soil loss tolerance), Soil quality indicator (SQI), Soil sustainability index (SSI), Soil threat index (STI), Sustainable yield index (SYI), Water quality index (WQI) etc.					
Method of Assessment	External: End semester Examination-Pen Paper Test					
Course Outcome 3	Describe the concept of organic farming with its objectives.					
Learning Outcome 1 Understand the concept of organic farming, crops organic farming and niche areas		15	25			

Contents	Concept of organic farming, its objectives and promotion, certification and inspection regime, niche areas and crops for organic farming, myth and concerns.
Method of Assessment	External : End semester Examination-Pen Paper Test

Course Outcome 4	Describe agronomic package of practices for cultivation of oil seed and fodder crops to improve food production			
Learning Outcome 1	Explain cultivation of major pulses oil seed and fodder crops their climatic requirement, land preparation, fertilizer and water requirement, etc.	15	25	
Contents	Agronomic package of practices for cultivation of major pulses oil seed and fodder crops, highlighting Scientific name, family, origin, climatic requirement, sowing time, land preparation, seed rate, sowing methods, Important varieties, fertilizer requirement, water requirement, inter-culture operations, plant protection measures, harvesting etc.			
Method of Assessment	External : End semester Examination-Pen Paper Test			
Learning Outcome 2	Understand the package of practices for the production of important pulse, oil seed and fodder crops and different types of cropping	15		
Contents	 Identification of major pulse, oil seed and fodder crops and their phenotypic differences Identification of major weeds of these crops, Composting techniques, Measurement protocols of green house gases, Visits to farms engaged in organic farming 			
Method of Assessment	Internal viva voce/ Practical files and assignment			

Suggested Learning Resources:

S.No	Title	Author	Edition
1	Handbook of Agriculture	Annonymus	ICAR New Delhi
2	Principles of Plant Nutrition	Konrad Mengel and Ernest A. Kirkby	Springer Science Business Media
3	Textbook of Field Crop Production	Rajendra Prasad	Directorate of Knowledge Management in Agriculture, Indian Council of Agricultural Research
4	Introduction to Agronomy & Principles of Crop Production	S.R.Reddy	Kalyani Publishers
5	Principles of Agronomy	T.Y.Reddy and G.H.S.Reddy	Kalyani Publishers

RGPV (DIPLOMA WING)
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OBE CURRICULUM FOR

FORMAT-3 Sheet

внорац			THE COURSE		J 1 1 1 1 1	A. •	NO. 1/5	
Branch	anch Agricultur		gricultur	al Engineering	Semest	ter		5 th
Course (Course Code 504/7318		7318	Course Name		1	PROJECT MANAGEMENT	
Course	Outco	me 1	Descri	be basic concepts of Entrepreneurship	0		Teach Hrs	Marks
Learnin	g Outco	ome 1	Entrep	stand the definition of Entrepreneur, reneurship and the classification of preneurs			15	10
entrepreneurs INTRODUCTION TO ENTERPRENEURSHIP • Definition of Entrepreneur / Intrapreneur • Difference between Entrepreneurship / Intrapreneurship • Need for Entrepreneurship • qualities of successful entrepreneur • Myths about Entrepreneurship • Classification of entrepreneurs on the basis of differen criteria • Reasons for the failure of entrepreneurs								
Method	of Asses	ssment	Extern	al : End semester Examination-Pen Pa	•			

Į	Understand concept of industry and classification like,		
Learning Outcome 1	tiny, large, rural and cottage and also forms of business organizations like public ltd, pvt. ltd., etc.	15	15
	INDUSTRIES AND BUSINESS ORGANIZATIONS Concept of Industry or Enterprise Classification of Industries (a) On the basis of capital investment Tiny (Micro) Industry Small Scale Medium Scale Large Scale (b) Others Rural Industry Cottage Industry Cottage Industry Proprietorship Board & Co-operative Partnership Public Ltd. Private Ltd.		

	- Government	Co-operative / Un	dertakin	σς	
	(d) Tiny small scale Indu		acrtakiii	63	
	- Definition				
	- Its significance in National Development.				
	- Govt. policies for SSI promotions				
	Sector / Product for SSI.	,			
	Internal: Mid Semester Exam I - P	en paper test/Assig	nment		
Method of Assessment		, ,	,		
Course Outcome 3	Describe Institutional assistance				
Learning Outcome 1	Understand what is Institutional		es,	15	15
Learning Outcome 1	infrastructure, marketing and qu	uality control			
	INSTITUTIONAL ASSISTANCE				
	(a) Types of Institutiona	l assistance			
	- Infra - structı	ural assistance			
Contents	- Technical Ass	istance			
	- Financial assistance				
	- Marketing As	sistance			
	(b) Information / guidan	ice & Training			
	- SISI	- ASK	•		
	- MPCON	- CSI	₹		
	- CED- MA	- NRI	OC .		
	(c) Infrastructure				
	- D/C	- AVI	I/AKVN		
	(e) Finance				
	- SIDBI	- KVIB MPFC			
	- NABARD	- MPWDC NS	SIC		
	M.P.A.V.V.N.				
	(d) Marketing				
	- MP- AGRO				
	- NSIC				
	- PM.LUN				
	- EXPORT COP	PORATION			
	- KVIP				
	- MPHSVN				
	MPLDC				
	(e) Quality Control				
	- BIS - FPO	- MPLUN	F.D.A.		
	AG. MKT. Board				
Method of Assessment	External : End semester Examinat	ion-Pen Paper Test			

Course Outcome 4	Describe concession, incentives and facilities available		
Learning Outcome 1	Understand facilities available, subsidies, incentive available for an entrepreneur.	15	15

Contents	INCENTIVES / CONCESSION / FACITLITIES AVAILABLE • Seed money • Incentive / subsidies Others (Phones, Lands etc)
Method of Assessment	External : End semester Examination-Pen Paper Test

Course Outcome 5	Describe complete planning of an industrial unit		
Learning Outcome 1	Understand different stages, like pre-planning stage, implementation and post implementation stage required to set up an industrial unit.	15	15
Contents	PLANNING OF AN INDUSTRIAL UNIT (SSI) • Pre- Planning Stage - Scanning the environment - Market survey - Seeking information - product / project selection • Implementation Stage - PPR Preparation - DIC registration - Arrangement of Land - Arrangement of Power - Obtaining NOC / Licenses from various departments - DPR Preparation - Seeking financial assistance - Commercial Production • Post Implementation stage - Permanent registration from D.I.C. - Availing Subsidies - Diversification / Modification - Setting up of marketing channel / Distri	bution.	
Method of Assessment	External : End semester Examination-Pen Paper Test		

Course Outcome 6	Explain the concept of achievement motivation		
Learning Outcome 1	Understand concept, significance and development of achievement motivation	15	15
Contents	 ACHIVEMENT MOTIVATION Historical perspective Concept of achievement motivation Significance of achievement motivation Development of achievement motivation 		

Method of Assessment	Internal: Pen Paper Test/ assignments		
Course Outcome 7	Describe financial management of an industry unit.		
Learning Outcome 1	Understand ratio analysis, analysis tools and financial accounting	15	15
Contents	 FINANCIAL MANAGEMENT OF AN INDUSTRIAL UNIT (SSI) Tools of financial analysis Ratio analysis Fund Flow / Cash flow analysis Working capital and concepts Financial accounting 		
Method of Assessment	External: End semester Examination-Pen Paper Test		

Course Outcome 8	Describe the preparation case study of successful entrepreneurs and preparation of project report for the industry/Business.
Learning Outcome 1	Understand chart preparation, collection of details of govt. schemes, various formats, market survey, case study preparation and preparation of project report.
Contents	1. To prepare chart to showing various factors affecting entrepreneurship.
Contents	2. To collect details related to various schemes run by the Govt. for Self-Employment and Entrepreneurship.
	3. To identify and select a project and conduct Market-Survey thereof.
	4. To collect various formats used in industries & departments/institutions working in the field of entrepreneurship.
	5. Visit few small scale industries situated in city, nearby industrial area.
	6. Discuss the problems related to SSI (Small Scale Industries) with an entrepreneur.
	7. Collect information about market rates quality and quantity of goods for their choice.
	8. Develop logical and analytical approach to purchase the raw material / finished goods.
	9. To prepare case study of successful entrepreneurs.
	10. Preparation of Project report for the industry/ Business they are willing to start.
Method of Assessment	Project work / Assignment

RGPV	(DIPLOM/ WING) BHOPAL	FOR	RRICULUM RTHE JRSE	FORMAT-		Sheet No. 1/3		
Branc h	AGRICUL	TURAL ENGINEERING		Semester	V			
Course Code	505	Course Name		PROFESSIONAL DEVELOPMENT-V	1			
ourse (Outcome 1	Student will be able to subjects and the actual		nowledge he/she got from theory	Teac h Hrs	Marks		
Learnir Outcon	•	•	_	idied in different subjects are implemented in	20	20		
Co	ontents	Structured industrial values Following are the sugget (Any two visits)						
		a) Irrigation project for observing components of dam and canal.						
		b) Concrete mixing & batching plant						
		c) Visit to Agricultural implements manufacturing industry						
		d) Visit to farms engaged in organic farming						
		e) Visit to soil erosion sites and water shed project areas						
Method Assessr		Report of the industrial visit should be submitted by the individual student						
ourse C	Outcome 2	Student will be able to collect data and write a report on the topic						
Learnir Outcon	_	Understand how to co	llect data and how to	write a report on a particular topic	20	20		
Contents		Data collection and writing a report on the topic						
	ontents	a) To collect details related to various schemes run by the Govt. for Self-Employment and Entrepreneurship						
	b) To collect various formats used in farm industries.							

	c) Collecting current market rates for all the grains and cereals and compare them with previous years.					
Method of Assessment	Report should be submitted by the individual student					
Course Outcome 3	Student will be able to be a part of a team and a leadership quality will improve	Teac h Hrs	Marks			
Learning Outcome 1	Understand how to be a good team member and how to listen to listen the others views and express oneself in group	10	20			
Contents	The students should discuss in group of six to eight students and write a brief report on the same as a part of term work. The topic of group discussions may be selected by the faculty members. Some of the suggested topics are- a) National agriculture scenario b) Agriculture Industry in India: Growth and Opportunities, etc.					
Method of Assessment	Assessment through student activity					
Course Outcome 4	Student will be able to improve his/her presentation skills	Teac h Hrs	Marks			
Learning Outcome 1	Understand how to prepare a ppt and present in front of a group of people	10	15			
	Seminar:					
Contents	Seminar topic shall be related to the subjects of fourth/fifth semester. Each student shall submit a report of at least 05 pages and deliver a seminar A power point presentation preferred to caliber student skill. (Presentation time – 7-10 minutes)					
Method of Assessment	Assessment through student activity					