	Name of the Subject: Chemistry of Food - II							
Course Code: <b>FPT</b>	Semester: Fourth	Credits: <b>3C</b>						
Duration: 6 Semesters	Maximum Marks: 100	Subject Code: FPT/T401						

Teac	hing Sch	neme				Examination Scheme							
Theory	3Hrs/	/Week					Er	nd Semester	Examin	ation			
Tutorial	N	Vil	Internal Scheme	Group	Unit	Objective Questions (Only MCQ/Fill in the Blanks/ True or False)				Subjective Questions			
Total		eeks or <b>Hrs</b>		A		To Be Set	To be Answered	Marks Per Question	Total Marks	To Be Set	To be Answered	Marks Per Question	Total Marks
Contact	31	1113		11	1	3				2	Any 5 at		
Periods	Class	Contact	30		2	6	4 20		1 x 20	2	least 2		10 x 5
1 0110 025	Test	Periods			3	6	Any 20	One	=	2	from	Ten	=
	3	48		В	4	6			20	2	each		50
					5	4				2	group		İ

_	<b>Detail Contents</b>	<b>Total Periods</b>
Unit – 1	Enzymes  Concepts, Classification, Physico-chemical nature, Mechanism of enzyme action, Enzyme kinetics (MME and their transformations), Factors affecting enzyme activity, Enzyme inhibition, Enzyme specificity, Co-factors, Basic concepts on lysozymes & Isozymes, Enzyme unit, Turn over number, Allosteric enzyme.	12
Unit – 2	Carbohydrates metabolism  Metabolic pathways for breakdown of carbohydrates: Glycolytic pathway, Pentose phosphate pathway, Citric acid cycle, Electron transport chain, ATP balance, Gluconeogenesis;	10
Unit – 3	Lipids metabolism  Utilization of fats, biosynthesis of fatty acids and fats; Digestion & absorption of lipids; Ketone bodies	8
Unit - 4	Proteins metabolism  Metabolism of proteins (digestion and absorption); Nitrogen balance and nitrogen pool; Evaluation of quality of proteins, Urea cycle	10

Unit - 5	Food Additives  Basic concepts, general principles for the application. Examples & role play in food processing – Preservatives, Antioxidants, Emulsifiers, Stabilizers (Thickeners), Sequestering and buffering agents, Bleaching and maturing agents, Food colours, Nutrient supplements, Non-nutritive and special dietary sweeteners, Anti-caking agents, Foaming and anti-foaming agents, Leavening agents, Firming agents, Humectants and texturisers, Clarifying agents. Food Pigments & Flavouring Agents: Importance, types and sources of pigments - their changes during processing and storages.	8
	Reference Books	
	1. Principles of Biochemistry / Albert L. Leninger / CBS Publishers & Distributors, New Delhi	
	2. Biochemistry Laboratory Techniques / Sterling Chaykin / Wiley Eastern Pvt. Ltd.	
	3. Foods Facts & Principles / N. Shakuntala Manay & M. Shadaksharaswamy / New Age	
	International	
	4. Food Science / N.N. Potter	
	5. Food Chemistry / L. H. Meyer	
	6. Food Analysis & Practice / Y. Pamaranz / AVI	
	7. Text Book of Biochemistry / Webb, Todd, Mason	
	8. Food Analysis / Pearson	
	9. Food Science / B. Srilaxmi / New Age international	
	10. Principles of Food Science / Karek & L.M. Delker	
	11. Food Analysis / Rangana Food Analysis / R. Lees / C.R.C Press Ltd.	

N	ame of the Subject: Unit Operation of Chemic	cal Engineering - II
Course Code: <b>FPT</b>	Semester: Fourth	Credits: 4C
Duration: 6 Semesters	Maximum Marks: 100	Subject Code: FPT/T402

Teacl	ning Scl	neme					Exam	ination So	cheme				
Theory	4 Hrs	/Week					Er	nd Semester	Examin	ation			
Tutorial	N	Nil	Internal Scheme	Group	Unit	Objective Questions (Only MCQ/Fill in the Blanks/ True or False)				Subjective Questions			
Total		eeks or <b>Hrs</b>		A		To Be Set	To be Answered	Marks Per Question	Total Marks	To Be Set	To be Answered	Marks Per Question	Total Marks
Contact	00	1113		А	1	7				3	Any 5 at		
Periods	Class	Contact	30		2	6			1 x 20	3	least 2		10 x 5
1 crious	Test	Periods			3	6	Any 20	One	=	2	from	Ten	=
	3	65		В	4	6			20	2	each group		50

	Detail Contents	<b>Total Periods</b>
Unit – 1	Heat Transfer  Mode of heat transfer process, Conduction – Fourier's Law (Features & Assumptions), Basic concepts of Thermal Conductivity, Thermal Resistance and Thermal Conductance, Convection – Concept of free convection and forced convection, Newton's Law of Cooling, Heat Exchangers – Basic concept and different heat exchanger equipment (Classification, Flow arrangement, Mode of operations) Concept of LMTD, Defects and their control, Radiation – Concepts of Total Emissive Power, Emissivity, Absorptivity, Reflectivity, Transmissivity, Black Body, Opaque Body, White Body and Gray Body, Stefan-Boltzmann Law. (No mathematical problems required only mathematical derivation.)	18
Unit – 2	Mass Transfer Introduction, Basic concepts of Concentrations, Velocities and Fluxes, Mode of Mass Transfer – By Diffusion, By Convection, By Change of Phase, Molecular Diffusion – Fick's Law, Solids, Liquids and Gases, Diffusion coefficients for Solids, Liquids and Gases, Concept of convective mass transfer coefficient. (No mathematical problems required only mathematical derivation.)  Distillation –Introduction to distillation tower, boiling point diagram, concept of flux ratio, azeotrope, flash distillation (no problem required)  Theory of absorption – elementary principles of absorption, equipment, packed column, packing material. (no problem required)  Fundamental theory of solid –liquid – liquid extraction, types of equipments. Principles of crystallization, equipment (no problem required)	18

	Energy Balance & Material Balance	
	Energy Balance - Concept, Steps involved in calculation of energy balance, energy associated with flow	
Unit – 3	and non-flow process, Heat of Reaction at constant pressure and constant volume, Thermochemistry –	11
	Heat of reaction, formation, and combustion (simple problems)	11
	Material Balance - Concept, Steps involved in calculation of material balance with or without chemical	
	reaction. (Only simple problem)	
	Pump: Concepts Classification, Head Developed by the Pump, NPSH, Defects and their preventions,	
	Industrial applications (No mathematical problems only mathematical expressions)	
	Fluid Mechanics	
	Fluids: Basic concepts, Classification, Properties [Density (mass density, weight density, specific	
	volume), Specific Gravity, Viscosity (dynamic & kinematic), Vapour Pressure(Roult law), Surface	
Unit - 4	Tension (cohesion & adhesion), Types of Fluid Flow, Continuity Equation (path line, stream line,	18
	stream tube and streak line), Laminar Flow - Concepts, Examples, Characteristics, Concept of Hagen-	
	Poiseuilli Equation (No derivation), Turbulent Flow – Concepts, Examples, Characteristics, Concept of	
	Fanning's Equation(No derivation), Fluid Dynamics – Basic concepts, Derivation Bernoulli's Equation	
	and its assumptions. (No mathematical problems required only mathematical derivation.)	
	Reference Books	
	1. Unit operations of Chemical Engineering, 4 <sup>th</sup> ed. / McCabe and Smith / McGraw-Hill Book Co.	
	Ltd., New York and Kogakusha Co. Ltd., Tokyo	
	2. Introduction to Chemical Engineering / Badger & Banchero / McGraw-Hill Book Co. Ltd.,	
	New York and Kogakusha Co. Ltd., Tokyo	
	3. Introduction to Chemical Engineering / Ghosal, Sanyal and Dutta / Tata McGraw Hill, New	
	Delhi	
	4. Chemical Engineering, Vol. 2 & 5 / Coulson & Richardson / Pergamon Press, Oxford	
	5. Principles of Unit Operations, 2 <sup>nd</sup> ed. / Foust & others / John Wiley & Sons Inc., London	

Course Code: <b>FPT</b>	Semester: Fourth	Credits: 4C		
Duration: 6 Semesters	Maximum Marks: 100	Subject Code: FPT/T403		

Teac	hing Sch	neme				Examination Scheme							
Theory	4 Hrs	/Week					Er	nd Semester	Examin	ation			
Tutorial	N	Nil	Internal Scheme	Group	Unit	Objective Questions (Only MCQ/Fill in the Blanks/ True or False)				Subjective Questions			
Total		eeks or <b>Hrs</b>		A		To Be Set	To be Answered	Marks Per Question	Total Marks	To Be Set	To be Answered	Marks Per Question	Total Marks
Contact					1	3				2	Any 5 at		
Periods	Class	Contact	30		2	6			1 x 20	2	least 2		10 x 5
1 0110 415	Test	Periods			3	6	Any 20	One	=	2	from	Ten	=
	3	65		В	4	6			20	2	each		50
					5	4				2	group		

	Detail Contents	Total Periods
	Canning	10441 1 11045
	General Canning technique	
<b>Unit – 1</b>	Can lacquer, can filling solution, Can construction, mechanical defects	18
Umt – 1	Effect of temperature, pH, altitude on canning of various food	10
	Evaluation of process time by graphical (Bigelow method) and formula method	
	Can defects, aseptic canning	
	Drying	
	Concept of drying, drying kinetics (no problem required)	
	Different type of driers - solar, tray, spray, fluidised bed drying, tunnel drier, drum drier (working	
Unit – 2	principles with schematic diagram only)	14
	Concept of critical moisture, equilibrium moisture content	
	Concept of evaporation and evaporation equipments	
	Concept osmotic dehydration, IMF food.	
	Refrigeration and Freeze Drying	
	Different phases of freeze drying, Time-temperature relation	
	Quality aspect of freeze dried food product,	14
Unit – 3	Types of refrigerant & use	14
	Types of freezer - plate, blast, vacuum, immersion, cryogenic freezing (principles, schematic	
	diagram & use only)	
	Working principles of refrigerated van, wagon and cold storage and their use	

	Preservation by Fermentation						
	Introduction to fermentation (general view)	4.0					
Unit - 4	Different fermented food (name, source & use)	10					
Unit - 4	Factors effecting fermentation						
	Curing and pickling; Hurdle technology.						
	Irradiation						
	Principles, measurement unit, Effect of irradiation on food product						
	Different food product	09					
Unit - 5	Use of preservative in foods	U9					
	Chemical preservative, bio-preservative						
	CA Storage and MAP						
	Basic principle of CA MA storage of fruits and vegetables						
	Reference Books						
	1. Food Process Engineering / D.R. Heldman & R.P. Singh / AVI						
	2. Food Processing and Preservation / G. Subbulakhsmi & S.A. Uddipi / New Age International						
	3. Elements of Food Engineering / J.C. Harper / AVI						
	4. The Technology of Food preservation / N.W Desrosier / AVI						
	5. Laboratory manual for Food Canners & Processors 2 vols. / NCA / AVI						
	6. Principles of Food Science Vol 2 / Karek & Luno Marcel Delker						
	7. Food Science & Technology / Magnus Pyke / John Murray, London						
	8. Food Science / B. Srilaxmi / New Age International						
	9. Foods Facts and Principles / N. Shakuntala Manay & M. Shadaksharaswamy / New age						
	International						
	10. Fundamentals of Food Engineering / S.E Charm / AVI						
	11. Processing of Fruits & Vegetables / Giridharilal & Siddappa / ICAR						
	12. Fundamentals of Food Processing Operations / J.L. Heid & M.A Joslyn / AVI						

Name of the Subject: Microbial Technology				
Course Code: <b>FPT</b>	Semester: Fourth	Credits: 4C		
Duration: 6 Semesters	Maximum Marks: 100	Subject Code: FPT/T404		

Teacl	hing Scl	neme	Examination Scheme										
Theory	4 Hrs	/Week		End Semester Examination									
Tutorial	N	Vil	Internal Scheme	Group	Unit	(	Only MCQ/Fi	e Questions ill in the Blanl or False)	ks/		Subjective	e Questions	
Total		eeks or <b>Hrs</b>		A		To Be Set	To be Answered	Marks Per Question	Total Marks	To Be Set	To be Answered	Marks Per Question	Total Marks
	Class	Contact	30		2				1 x 20		Any 5 at least 2		10 x 5
Periods	Test	Periods			3	6	Any 20	One	=	2	from	Ten	=
	3	65		В	4	6			20	3	group		50
Contact Periods	Class Test	Contact Periods	30		<del></del>	3 6 6			1 x 20	2 2 2	Any 5 at least 2 from each		

	Detail Contents	<b>Total Periods</b>
Unit – 1	Fermentative production, purification & storage of biomass  Different micro organisms and their uses in food fermentation, propagation of micro organisms in food (different propagation processes), Baker's yeast production, Mushroom Cultivation	10
Unit – 2	Fermentative production & purification of alcoholic beverages  Technology of production and purification of ethyl alcohol, non-distilled beverage (beer, wine), distilled beverage (whisky, rum, champagne)	12
Unit – 3	Fermentative production & purification of organic acids  Biochemical properties of lactic acid bacteria, bacterial activities (only brief discussion), industrial production of lactic acid (process flow and implied conditions). Production and purification of acetic acid and Vinegar (only process flow and implied conditions), production and isolation of citric acid.	14
Unit - 4	Fermentative production of saccharifying agents, vitamins & antibiotics  Saccharifying Agents- Production, isolation & use of different saccharifying agents (amylase, pectinase, etc.), principles behind enzyme immobilization and its application. Vitamins- Production of vitamin B <sub>2</sub> & B <sub>12</sub> (brief discussion). Antibiotics- Production, isolation & use of penicillin, streptomycin, neomycin use & activities of antifungal antibiotics (brief discussion)	19
Unit - 5	Solid state fermentation Technique  Basic principle of solid state fermentation process, Production and isolation of amyloglucosidase by solid state fermentation process.(brief discussion).	10

#### **Reference Books**

- 1. Microbiology / Pelczar & Chang
- 2. Industrial Microbiology / Prescott & Dunn
- 3. Fundamentals of biotechnology / P. Prave, W. Sitting, D.A. Sukatsch / VCH Pub
- 4. Food Biotechnology / Roger Arnold, Gordon Beech, John Taggart / Cambridge Univ. Press
- 5. Fermentation Biotechnology / Owen P. Ward / Open Univ. Press
- Biotechnology Food Fermentation (Vol. I & II), By V.K. Joshi and Ashok Pandey, Educational Publishers & Distributors, 1999
- 7. Fermentation and Food Safety, Martin Adams, M.J.R. Nout, Springer, 28-Feb-2001
- 8. Microbial Technology: Fermentation technology, Henry J. Peppler, Academic Press, 1979

Name of the Subject: Chemistry of Food – II Laboratory				
Course Code: <b>FPT</b>	Semester: Fourth	Credits: 2C		
Duration: 6 Semesters	Maximum Marks: 100	Subject Code: <b>FPT/P405</b>		

- > To know the minerals and vitamins content in food materials.
- > To know the amount of colouring agents present in food materials.
- > To know the enzyme activity with respect to the different factors.

Teac	hing Scheme	<b>Examination Scheme</b>					
Practical	4 Hrs/Week	Internal Scheme	External Scheme				
Tutorial Total Contact Periods	Nil 15 Weeks or 60 Hrs	Continuous Internal Assessment of <b>50</b> - marks is to be carried out by the teachers throughout the Second Year First Semester. Distribution of marks:  Performance of Job – 35, Notebook – 15.	External Assessment of <b>50 marks</b> shall be held at the end of the Second Year First Semester on the entire syllabus. One job per student from any one of the jobs done is to be performed. Job is to be set by lottery system. Distribution of marks: On Spot Job – 25, Viva-voce – 25.				
Sl.No.	Detail Contents						
1	Separation of amin	eparation of amino acids by Chromatographic method (paper, thin layer, liquid column chromatography)					
2	Determination of ascorbic acid, thiamine, riboflavin in food sample						
3	Estimation of sodi	Estimation of sodium, calcium, iron in food products					
4	Estimation of Zinc, copper, lead, mercury, arsenic in food sample						
5	Assay of Phosphat	ase and potato amylase activity					
6	Determination of o	Determination of carotenoids and chlorophyll content in food sample					

Name of the Subject: Food Preservation Technology Laboratory				
Course Code: <b>FPT</b>	Semester: Fourth	Credits: 2C		
Duration: 6 Semesters	Maximum Marks: 100	Subject Code: <b>FPT/P406</b>		

It provides an extensive introduction into the needs and mechanisms of preservation. This work provides the effects of physical and chemical changes, enzymatic activity on preservation, (integrated) preservation methods and hurdle technology, input of microbiological parameters and the organisms' distribution and state, preservation process, heat treatment and inactivation parameters, sterilization and pasteurization. Non-thermal inactivation process, the effects of product environment and development, and consumer behaviour and expectations are also elaborated upon, apply preservation principles in product design, calculate the efficacy of a heat process and interpret its key parameters (i.e. D-, z-, and F0 - values), enhance the effectiveness of preservation methods and the efficiency of production.

Teac	hing Scheme	E	Examination Scheme				
Practical	4 Hrs/Week	Internal Scheme	External Scheme				
Tutorial Total Contact Periods	Nil 15 Weeks or 60 Hrs	Continuous Internal Assessment of <b>50</b> - marks is to be carried out by the teachers throughout the Second Year First Semester. Distribution of marks: Performance of Job – 35, Notebook – 15.	External Assessment of <b>50 marks</b> shall be held at the end of the Second Year First Semester on the entire syllabus. One job per student from any one of the jobs done is to be performed. Job is to be set by lottery system. Distribution of marks: On Spot Job – 25, Viva-voce – 25.				
Sl.No.	Detail Contents						
1.	Development and	Development and study of frozen food.					
2.	Development and study canned food.						
3.	Development and study fermented food.						
4.	Preparation of drying curve and study of dried food product.						
5.	Study of freeze dry	ying and preparation of freeze dried product.					
6.	Study of spray drying process						

Name of the Subject: Unit Operation of Chemical Engineering - II Laboratory				
Course Code: <b>FPT</b>	Semester: Fourth	Credits: 2 C		
Duration: 6 Semesters	Maximum Marks: <b>50</b>	Subject Code: FPT/P407		

Tutorial  Nil  Total Periods  15 Weeks or 45 Hrs  16 Weeks or 45 Hrs  17 O calibrate orifice meter and to find out the orifice coefficient.  18 Detail Contents  19 Detail Contents  10 Continuous Internal Assessment of 25 Marks shall be held at the end Second Year First Semester on the entire syllabus. One student from any one of the jobs done is to be performed to be set by lottery system. Distribution of marks: On Second Year First Semester on the entire syllabus. One student from any one of the jobs done is to be performed to be set by lottery system. Distribution of marks: On Second Year First Semester on the entire syllabus. One student from any one of the jobs done is to be performed to be set by lottery system. Distribution of marks: On Second Year First Semester on the entire syllabus. One student from any one of the jobs done is to be performed to be set by lottery system. Distribution of marks: On Second Year First Semester on the entire syllabus. One student from any one of the jobs done is to be performed to be set by lottery system. Distribution of marks: On Second Year First Semester on the entire syllabus. One student from any one of the jobs done is to be performed to be set by lottery system. Distribution of marks: On Second Year First Semester on the entire syllabus. One student from any one of the jobs done is to be performed to be set by lottery system. Distribution of marks: On Second Year First Semester on the entire syllabus. One student from any one of the jobs done is to be set by lottery system. Distribution of Second Year First Semester on the entire syllabus. One student from any one of the jobs done is to be performed to be set by lottery system. Distribution of marks: On Second Year First Semester on the entire syllabus.	Teac	Teaching Scheme Examination Scheme					
Total Periods  15 Weeks or 45 Hrs  First Semester. Distribution of marks: Performance of Job – 15, Notebook – 10.  To calibrate orifice meter and to find out the orifice coefficient.  To calibrate rotameter and to determine flow of fluid through rotameter.  To determine the efficiency of centrifugal pump  Experiments on Reynolds's Apparatus –Determination of flow regime and construction of friction factor against NR <sub>E</sub> .	Practical	3 Hrs/Week	Internal Scheme	External Scheme			
<ol> <li>To calibrate orifice meter and to find out the orifice coefficient.</li> <li>To calibrate rotameter and to determine flow of fluid through rotameter.</li> <li>To determine the flow of fluid through venturimeter.</li> <li>To determine the efficiency of centrifugal pump</li> <li>Experiments on Reynolds's Apparatus –Determination of flow regime and construction of friction factor against NR<sub>E</sub>.</li> </ol>	Total	15 Weeks or	marks is to be carried out by the teachers throughout the Second Year First Semester. Distribution of marks:	student from any one of the jobs done is to be performed. Job is to be set by lottery system. Distribution of marks: On Spot Job			
<ol> <li>To calibrate orifice meter and to find out the orifice coefficient.</li> <li>To calibrate rotameter and to determine flow of fluid through rotameter.</li> <li>To determine the flow of fluid through venturimeter.</li> <li>To determine the efficiency of centrifugal pump</li> <li>Experiments on Reynolds's Apparatus –Determination of flow regime and construction of friction factor against NR<sub>E</sub>.</li> </ol>	Sl.No.		Detail (	Contents			
<ol> <li>To determine the flow of fluid through venturimeter.</li> <li>To determine the efficiency of centrifugal pump</li> <li>Experiments on Reynolds's Apparatus –Determination of flow regime and construction of friction factor against NR<sub>E</sub>.</li> </ol>							
<ul> <li>To determine the efficiency of centrifugal pump</li> <li>Experiments on Reynolds's Apparatus –Determination of flow regime and construction of friction factor against NR<sub>E</sub>.</li> </ul>	2.	To calibrate rotameter and to determine flow of fluid through rotameter.					
5. Experiments on Reynolds's Apparatus –Determination of flow regime and construction of friction factor against NR <sub>E</sub> .	3.	To determine the flow of fluid through venturimeter.					
	4.	To determine the efficiency of centrifugal pump					
To Determine the Overall heat transfer coefficient of a shell and tube heat exchanger	5.	Experiments on Reynolds's Apparatus –Determination of flow regime and construction of friction factor against NR <sub>E</sub> .					
<u> </u>	6.	To Determine the Overall heat transfer coefficient of a shell and tube heat exchanger					

Name of the Subject: Microbial Technology Laboratory					
Course Code: <b>FPT</b>	Semester: Fourth	Credits: 2C			
Duration: 6 Semesters	Maximum Marks: 100	Subject Code: FPT/P408			

- > Identity, characteristics, and sources of microorganisms in food fermentations.
- > Metabolic activities of microorganisms and their influence on product attributes.
- > Interactions between microorganisms.
- > Processing of fermented foods.
- ➤ Growth, maintenance, and preservation of microbial starter cultures

Teac	hing Scheme	xamination Scheme					
Practical	3Hrs/Week	Internal Scheme	External Scheme				
Tutorial Total Contact Periods	Nil 15 Weeks or 45 Hrs	Continuous Internal Assessment of <b>50 marks</b> is to be carried out by the teachers throughout the Second Year  First Semester. Distribution of marks:  Performance of Job – 35, Notebook – 15.	External Assessment of <b>50 marks</b> shall be held at the end of the Second Year First Semester on the entire syllabus. One job per student from any one of the jobs done is to be performed. Job is to be set by lottery system. Distribution of marks: On Spot Job – 25, Viva-voce – 25.				
Sl.No.	Detail Contents						
1.	Fermentative produ	Fermentative production of alcohol.					
2.	Preparation of Baker's Yeast.						
3.	Fermentative production of Citric acid.						
4.	Production of fungal amylase.						
5.	Production of amyl	Production of amyloglucosidase by solid state fermentation					
6.	Production and assay of antibiotics						

Name of the Subject: Professional Practice - II					
Course Code: <b>FPT</b>	Semester: Fourth	Credits: 1C			
Duration: 6 Semesters	Maximum Marks: <b>50</b>	Subject Code: FPT/P409			

- > Synthesize knowledge from various areas of learning.
- > Critically and creatively apply knowledge to real life situations
- > Enhance students' knowledge
- Enable students to acquire skills of collaboration, communication & independent learning
- Prepare students for lifelong learning and challenges in the future

Teaching Scheme		<b>Examination Scheme</b>	
Term Work	2 Hrs/Week	Term Work (Internal Scheme)	
Tutorial	Nil		
Total Contact Periods	15 Weeks or 30 Hrs	Continuous Internal Assessment of <b>50 marks</b> is to be carried out by the teachers throughout the Second Year First Semester. Distribution of marks: Performance of Job – 35, Assignments – 15.	
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To provide opportunity for students to present the proposed Project Work in front of a technical gathering with the help of different oral, aural and visual communication aids which they learnt through different courses in the Parts – I of the diploma course. In the Seminar, students are not only expected to present their proposed Project Work, but also to defend the same while answering questions arising out of their presentation.

Name of the Subject: Development of Life Skill - II				
Course Code: <b>FPT</b>	Semester: Fourth	Credits: 1 C		
Duration: 6 Semesters	Maximum Marks: 50	Subject Code: FPT/P410		

- Develop Positive Attitudes
- > Develop Effective Communication Skills
- ➤ How to Relate to Your Instructors
- ➤ Learn How to Think and Make Correct Decisions
- Develop Organizational Skills
- Develop Goal Setting/Time Management Skills
- ➤ Learn How to Improvise in Pressed Situations
- ➤ Complete Applications, etc.
- Develop Positive Work Ethics
- ➤ Learn How To Be Motivated To Reach Their Goals
- ➤ Be a Positive Influence in Their Community Good Citizens and Leaders, and more..

Teaching Scheme		Examination Scheme			
Practical	2 Hrs/Week	Internal Scheme	External Scheme		
Tutorial	Nil	Continuous Internal Assessment of 25  marks is to be carried out by the teachers throughout the Second Year  First Semester. Distribution of marks:  Performance of Job – 15, Notebook – 10.	student from any one of the jobs done is to be performed. Job is		
Total Periods	15 Weeks or 30 Hrs				
Sl.No.	.No. Detail Contents				
1.	Identifying Sources — Skimming Newspapers for Information				
2.	Preparing for an interview				
3.	Responding Appropriately				
4.	Group Discussions				
5.	Language Interaction				
6.	Mock interviews are to be arranged and to be conducted by any suitable person.				
7.	Communicating using the electronic devices				