

ENTREPRENEURSHIP & INNOVATION CERTIFICATES (SAMPLE DOCUMENT)

 <p>INSTITUTION'S INNOVATION COUNCIL <small>(Ministry of HRD Initiative)</small></p>	 <p>START IN UP <small>A Government of UP Initiative</small></p>	 <p>IIMT UNIVERSITY MEERUT <small>Transforming Education System, Transforming Lives</small></p>	 <p>UGC Approved Section 2(f) & 12B</p>
<h3>CERTIFICATE OF COMPLETION</h3>			
<p><i>This is to certify thatAAKASH RANA.....Student of B.Tech Computer Science and Engineering, 3rd year, School of Engineering & Technology has successfully completed minor certification course on Entrepreneurship Development. The duration of course has been from January 2022 to June 2023 .</i></p>			
Certificate No. <u>IIMTU/IIC/SET/33</u>		Enrollment No. <u>IIMTU/2062026</u>	
Date: <u>24/07/2023</u>		Roll No. <u>2062017001</u>	
 Course Coordinator		 Controller of Examinations	

 <p>INSTITUTION'S INNOVATION COUNCIL <small>(Ministry of HRD Initiative)</small></p>	 <p>START IN UP <small>A Government of UP Initiative</small></p>	 <p>IIMT UNIVERSITY MEERUT <small>Transforming Education System, Transforming Lives</small></p>	 <p>UGC Approved Section 2(f) & 12B</p>
<h3>CERTIFICATE OF COMPLETION</h3>			
<p><i>This is to certify thatGARIMA.....Student of B.Tech Computer Science and Engineering, 3rd year, School of Engineering & Technology has successfully completed minor certification course on Entrepreneurship Development. The duration of course has been from January 2021 to June 2022 .</i></p>			
Certificate No. <u>IIMTU/IIC/SET/09</u>		Enrollment No. <u>IIMTU/1962093</u>	
Date: <u>05/08/2022</u>		Roll No. <u>1962017010</u>	
 Course Coordinator		 Controller of Examinations	



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Section 2(f) & 12B

CERTIFICATE OF COMPLETION

This is to certify that**PINKI KUMARI**.....Student of **B.Tech
Computer Science and Engineering, 3rd year, School of Engineering & Technology**
has successfully completed minor certification course on
Entrepreneurship Development.

The duration of course has been from **January 2022 to June 2023 .**

Certificate No. **IIMTU/IIC/SET/57**

Enrollment No. **IIMTU/2162173**

Date: **24.07.2023**.....

Roll No. **2162018005**.....


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CERTIFICATE OF COMPLETION

This is to certify that**SAURAV KUMAR**.....Student of **B.Tech
Computer Science and Engineering, 3rd year, School of Engineering & Technology**
has successfully completed minor certification course on
Entrepreneurship Development.

The duration of course has been from **January 2021 to June 2022 .**

Certificate No. **IIMTU/IIC/SET/20**

Enrollment No. **IIMTU/1962105**

Date: **05/08/2022**.....

Roll No. **1962017022**.....


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CERTIFICATE OF COMPLETION

*This is to certify thatSYED.SAQLAIN AHMAD.....Student of B.Tech
Computer Science and Engineering, 3rd year, School of Engineering & Technology
has successfully completed minor certification course on
Entrepreneurship Development.*

The duration of course has been from January 2021 to June 2022 .

Certificate No. **IIMTU/IIC/SET/27**

Enrollment No. **IIMTU/1962113**

Date: **05/08/2022**

Roll No. **1962017030**


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CERTIFICATE OF COMPLETION

*This is to certify thatUMANG CHAUDHARY.....Student of B.Tech
Computer Science and Engineering, 3rd year, School of Engineering & Technology
has successfully completed minor certification course on
Entrepreneurship Development.*

The duration of course has been from January 2021 to June 2022 .


Certificate No. **IIMTU/IIC/SET/31**

Enrollment No. **IIMTU/1962117**

Date: **05/08/2022**

Roll No. **1962017034**


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IIMT UNIVERSITY, MEERUT

Timing: 12.30 p.m.

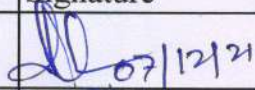
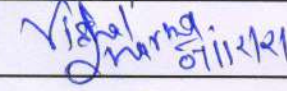
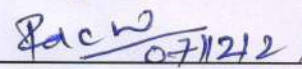
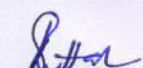
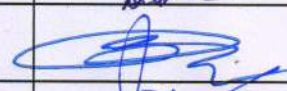
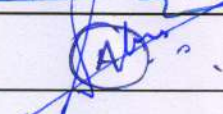
Date: 07/12/2021

Venue: Pro VC Office / Block -B

(email dt 06/08/2021)

Purpose: Minor certification based on I & E integrated with UG degree - Progress update

Attendance Sheet

Sl.No.	Name	Designation/Department	Signature
1	Dr. N.K. Pruthi	Dean SoAS	 07/12/21
2	VISHAL SHARMA	HOD, SOJMC	 Vishal Sharma 07/12/21
3	Rachna Choudhry	Head, SoCSA	 Rachna 07/12/21
4	Dr. Anj Mittal	Dean Pharmacy	
5	Dr. D.K. Sharma	Dean-SET	
6	Dr. S.K. Singh	Dean - Mgt.	
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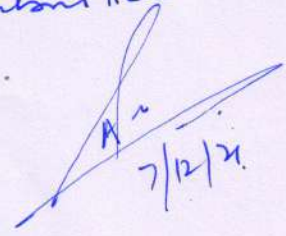
B.Sc. Agri
BTMC
BCA
B. Pharma
B.Tech.
BBA

Conclusion: Presently, to start w prefinal year w core papers
Elective paper will be started from Jan 2022
through NPTEL.
(refer attached doc)

Deepa Sharma
07/12/2021

Statement of Dean Mgt.:

Entrepreneurship & Innovation 5th ED are included in B.com (H) in 3rd sem & BBA in 4th sem. as per NEP as mentioned in Format 2 submitted to your office.

 7/12/21



Dr. Deepa sharma <advisor.iimt@iimtindia.net>

minor certification course in E and I in third year of UG course of your school

5 messages

Dr. Deepa sharma <advisor.iimt@iimtindia.net>

Tue, Sep 28, 2021 at 12:16 PM

To: "Dr. Satish Kumar Singh" <deanccmiimtuniversity@iimtindia.net>, "Dr. Prof. Anuj Mittal" <dean_pharma@iimtindia.net>, "Dr Prof. (Dr.) N.K. Pruthi" <dean_agrisc@iimtindia.net>, dean_cet@iimtindia.net, "Dr. Deepak Sinha" <deanrsa@iimtindia.net>
Cc: VC IIIMT University <vciimtuniversity@iimtindia.net>

Dear Sir,

It was decided to integrate a minor certification course in E and I in third year of UG course of your school. The syllabus of the same is already shared with you, kindly share the evaluation scheme with the inclusion of the said certification by today 3pm on urgent basis.

thanxs

--

Dr. Deepa Sharma
Advisor & Dean - Research & Planning
IIIMT University, Meerut (U.P.)

VC IIIMT University <vciimtuniversity@iimtindia.net>

Tue, Sep 28, 2021 at 2:22 PM

To: "Dr. Deepa sharma" <advisor.iimt@iimtindia.net>
Cc: "Dr. Satish Kumar Singh" <deanccmiimtuniversity@iimtindia.net>, "Dr. Prof. Anuj Mittal" <dean_pharma@iimtindia.net>, "Dr Prof. (Dr.) N.K. Pruthi" <dean_agrisc@iimtindia.net>, "Dr.A.K. Chauhan" <dean_cet@iimtindia.net>, "Dr. Deepak Sinha" <deanrsa@iimtindia.net>

Received your mail.
With best wishes,

Yours truly

Vice Chancellor

[Quoted text hidden]

Dean Agricultural Science <dean_agrisc@iimtindia.net>

Tue, Sep 28, 2021 at 5:32 PM

To: VC IIIMT University <vciimtuniversity@iimtindia.net>, "Dr. Deepa Sharma" <advisor.iimt@iimtindia.net>

Respected Sir/ Madam,

We are already studying a core course in the UG program (B.Sc.Ag.) entitled Entrepreneurship Development and Business Communication

Code (AG-505) in V Sem (3rd Year) recommended by 5th dean committee (ICAR) of 75 marks. So, should we go for a minor course for certification in E & I separately?

Warm Regards

Prof.(Dr) N.K. Pruthi
Dean,School of Agricultural Sciences
IIIMT,University, Meerut 250001 UP

[Quoted text hidden]

Dr. Dinesh K Sharma <dean_cet@iimtindia.net>

To: "Dr. Deepa sharma" <advisor.iimt@iimtindia.net>

Cc: "vciimtuniversity@iimtindia.net" <vciimtuniversity@iimtindia.net>

Tue, Sep 28, 2021 at 6:02 PM



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VIRENDRA PAL
RAKESH
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Position: IIIMT
Date: 26.01.2024 19:55

Madam,

As per telephonic discussion with you, the evaluation schemes of all concerned programs (including minor certification courses in all UG programs) was sent to your office in last week. If further, any requirement, please let me know.

Yours sincerely,
Dean-SET

[Quoted text hidden]

VC IIMT University <vciimtuniversity@iimtindia.net>
To: "Dr. Dinesh K Sharma" <dean_cet@iimtindia.net>
Cc: "Dr. Deepa sharma" <advisor.iimt@iimtindia.net>

Wed, Sep 29, 2021 at 9:01 AM

Thanks a lot.
With best wishes,

Yours truly

Vice Chancellor

[Quoted text hidden]



Signed By: Registrar -
VIRENDRA PAL
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University Merut
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IIMT UNIVERSITY, MEERUT

Timing: 12.30 p.m.

Date: 07/12/2021

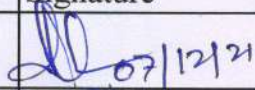
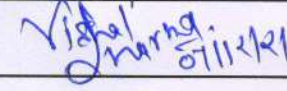
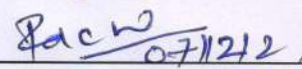
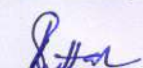
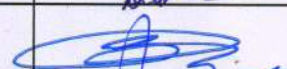
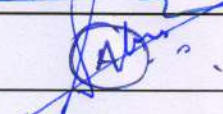
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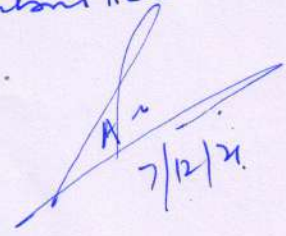
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Deepa Sharma
07/12/2021

Statement of Dean Mgt. :

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 7/12/21

MINOR CERTIFICATION

SL No	Subject	Mode of delivery	Hrs
Core Paper- I	MODULE I-Introduction to Entrepreneurship (Paper Code: MC/IEV-001)		4 Cr.
1	Registration & Inauguration. <ul style="list-style-type: none"> • A formal gathering • Introduction of trainers • Objectives of the programme • Rules & Regulations of the Institute 	Lecture, Video	2 hrs
2	Rapport building & unfreezing – Ice breaking exercise <ul style="list-style-type: none"> • Climate Setting & confidence building by Ice Breaking exercises • Familiarizing themselves with each other • Importance of interaction in the learning process • Psychological approach –Rising participants' consciousness • Shedding shyness, reservations, inferiority complex etc. 	Games, Exercises, Group discussion, Skits etc	2 hrs
MODULE II - Achievement Motivation and positive psychology			
3	Achievement Motivation - Confidence building <ul style="list-style-type: none"> • What is motive? Internal & External Motivation • Motivational Factors leading to motivation • Positive thinking • Shedding negative feelings • Experience Sharing by successful entrepreneurs • Motivational video clips • Scope for Self employment 	Lecture PPT Video	2 hrs
4	Why self-employment - Advantages over wage employment, Entrepreneurship Development <ul style="list-style-type: none"> • Need and importance of embarking on self employment • Advantages of self employment vis-à-vis wage employment • Assessing self to know entrepreneurial tendencies • Process of Entrepreneurship Development • Importance of behavioral changes for entrepreneurship • Difference between Income Generating Activity, Self Employment and Entrepreneurship • Characteristics of an entrepreneur –Dynamics of Entrepreneurship • Attitude and its impact on Entrepreneurship 	Group Discussion, PPT	2 hrs
5	Self Rating Questionnaire(SRQ) on Competencies – Administering self rating questionnaire from Achievement Motivation Training Workbook	Exercise	



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MODULE III- Entrepreneurial Competencies			
6	<p>Entrepreneurial competencies – importance, explanation with examples, case study for identification of different competencies</p> <ul style="list-style-type: none"> Defining Competencies – Combination of knowledge, skill, motive and trait Understanding all the 15 Competencies Relevance of entrepreneurial Competencies at different stages of enterprise launching and management Facilitating internalizing the entrepreneurial competencies by way of stories, viewing videos etc. Identifying entrepreneurial competencies through a case study How success is related to Entrepreneurial Competencies 	Lecture, PPT, Group Discussion, Video Clips & Case Study	8 hrs
	Self Rating Questionnaire(SRQ) on Competencies - evaluation	Exercise	
7	<p>Ring Toss Exercise</p> <ul style="list-style-type: none"> Importance of Risk Taking & Goal setting for becoming an entrepreneur Examine one's own risk taking behavior i.e. a high risk taker, moderate or low risk taker by administering Ring Toss exercise Need to take Moderate and calculated risk 	Game, Discussion, Lecture, PPT	4 hrs
8	<p>Systematic Planning & Efficiency Orientation – Boat building exercise</p> <ul style="list-style-type: none"> What is quality, attributes of quality Factors affecting quality Quality Management Systematic planning 	Game, Discussion, PPT, Lecture	4 hrs
9	<p>Tower Building Exercise – Eradication of Dependency Syndrome</p> <ul style="list-style-type: none"> Role of Self confidence in performing any activity Importance of planning & scanning the environment Developing belief in own ability to complete a given task/face a challenge without depending upon external assistance 	Game, Discussion, Lecture	4 hrs



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Core Paper-2	MODULE IV - Personal Skills (Paper Code: MC/IEV-002)		2 Cr.
10	Problem Solving & Creativity <ul style="list-style-type: none"> • Need for developing problem solving skills • Process involved in problem solving • Importance of Creativity in Entrepreneurship 	Lecture, PPT, Video, Games	2hrs
11	Effective Communication <ul style="list-style-type: none"> • Importance of communication skills in running an enterprise • Elements of effective communication • Barriers of effective communication & the ways to overcome it 	Lecture, PPT, Exercise	2 hrs
12	Time Management <ul style="list-style-type: none"> • Time Management – time as a resource • Key factors of managing the time effectively • Prioritizing the work 	Lecture, PPT, Discussion	2 hrs
Core Paper – 3	MODULE V - Business Management (Paper Code: MC/IEV-003)		4 Cr.
13	Banking - Deposits & Advances, Lending Schemes / Government Sponsored Schemes <ul style="list-style-type: none"> • Various Deposit Schemes and other services of banks • General Advances -Security Norms & margin requirement • Term Loan & Working Capital finance • MSME Credit • Mudra Loan • PMEGP Scheme • CGTMSE Scheme 	Lecture, PPT, Discussion	4 hrs
14	Marketing Management/Packaging/branding <ul style="list-style-type: none"> • Indian rural market an overview • Elements of successful marketing • Market segmentation • 4 Ps of marketing • Marketing mix • Product mix • Unique Selling Proposition • Need for understanding consumer behavior and preferences • Importance of customer service • Marketing strategies for exploring opportunities in rural market • Online marketing 	Lecture, PPT, Discussion	4 hrs
	Costing & Pricing, Fixed cost & Variable Cost, Breakeven point etc. <ul style="list-style-type: none"> • Components of direct and indirect, fixed and variable cost • Importance of Costing in profitability • Concepts of pricing and factors affecting pricing decisions 	Lecture, Discussion, PPT and Exercise	2 hrs

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15	<ul style="list-style-type: none"> Commercial feasibility of an enterprise Break Even analysis 		
16	Inventory Management <ul style="list-style-type: none"> Stocking Pattern Demand Forecasting, Warehouse Flow, Inventory Turns/Stock Rotation, Cycle Counting And Process Auditing. 	Lecture, Discussion, PPT and Exercise	2 hrs
17	Working Capital and its Management <ul style="list-style-type: none"> What is Working Capital Effect of Credit policies on working capital Key points to note while managing working capital Cycles of Working Capital 	Discussion, Lecture, PPT, Exercise	2 hrs
18	Book Keeping & accountancy – cash book, sales & purchases, book keeping methodology <ul style="list-style-type: none"> Various types of records to be maintained in small enterprises - Cash Book, General Ledger etc. Accounting methodology Various heads of accounts and how to appropriate expenditure there in Financial Statements 	Lecture, PPT, Discussion, Exercise & Case Study	4 hrs
19	Insurance <ul style="list-style-type: none"> Importance of securing assets through insurance Types of insurance cover available General Insurance (fire, theft, burglary etc) Insurance Schemes of the Government How to claim insurance 	Lecture, PPT, Discussion	2 hrs
20	Business Laws – Taxation & related laws: <ul style="list-style-type: none"> Legal aspects of weights and measures IT, VAT Sales Tax, state and central Govt. Rules and regulations in business Compliance for various statutory requirements VAT, CST, Income Tax etc. Compliance for various statutory requirements (VAT, CST, Income Tax etc.) 	Lecture, PPT, Discussion, Exercise	2 hrs



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21	<p>Inter personal relationship, Labor Management</p> <ul style="list-style-type: none"> • Importance of maintaining good inter personal relationship with related people in business • Need for leadership in the enterprise development • Various styles of Leadership • Characteristics of a good leader 	Lecture, PPT, Discussion	2 hrs
22	<p>IT Factor in managing an enterprise - impending need.</p> <ul style="list-style-type: none"> • Importance of Computer literacy & basic knowledge of computers • E filing of various tax returns • Online marketing 	Lecture, PPT, Exercise	4 hrs
MODULE VI - Business Opportunity Identification Guidance			
23	<p>Business Opportunity Guidance – Description of methodology, case study – group exercise, Selection of product / service</p> <ul style="list-style-type: none"> • What is a business idea / • Tools for generating business idea • Screening of business idea –Macro screening & Micro screening • Selection of business idea • SWOT Analysis 	Group Discussion, Lecture, PPT	4 hrs
MODULE VII - Market Survey			
24	<p>Market Survey – methodology, sources, nature of information to be collected</p> <ul style="list-style-type: none"> • Need for market survey • Methodology to collect and use the information generated • How to develop an effective survey plan for the selected activity • Dos & donts for conducting market survey • Questionnaire for market survey • Market survey report format 	Lecture, Group Discussion, PPT	4 hrs
25	<p>Market survey – Collection of information, field work.</p> <p>Candidates will go to the market and collect information of identified/potential activity to assess the demand /supply position, market trends, marketing practices, competition, current state of technology etc.</p>	Practical work	8 hrs
26	<p>Market Survey – Report Writing, Presentation of market survey report, discussion on presentation</p> <p>Candidate will prepare Market survey report and present the report in the class followed by discussion to be moderated by the resource Person.</p>	Group Discussion, Lecture, PPT	4 hrs



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MODULE - VIII - Business Plan Preparation			
27	Business Plan Preparation? <ul style="list-style-type: none"> Plan format How to ascertain initial viability of a business proposal Enlisting technical, financial, marketing and commercial aspects of business Profitability 	Lecture, PPT, Exercise, Discussion	4 hrs
Core Paper-4	MODULE –IX Launching Formalities (Paper Code: MC/IEV-004)		4 Cr.
28	Field Visit to units established & successfully run by first generation entrepreneurs Candidates are taken for exposure visits to Enterprises established and successfully managed by RSETI trained Entrepreneurs where in they will be able to: <ul style="list-style-type: none"> Know various steps involved in establishing a Micro Enterprise Understand how a Micro Enterprise is managed To identify the Entrepreneurial competencies & Entrepreneurial behavior To analyze the external factors influencing the success or failure of the enterprise. To analyze the internal factors affecting success or failure of the enterprise/entrepreneur. To identify the areas/issues which can be addressed by RSETI, in a similar case, to facilitate success of the entrepreneur 	Field Visit, Interaction	6 hrs
29	Interaction with successful entrepreneurs <ul style="list-style-type: none"> Identify factors responsible for the development of the entrepreneur Assess the Entrepreneurial Competencies of the Entrepreneur Impact of EDP training inputs Understand how the entrepreneur reacts to a challenging situation 	Interaction followed by discussion	2 hrs
30	Resource mobilization, supporting organizations. <ul style="list-style-type: none"> Support systems available at various District/State/national level State/Central Government Schemes for giving impetus for entrepreneurship development 	Lecture, PPT, Discussion	2 hrs
31	Launching formalities <ul style="list-style-type: none"> Steps in launching of an enterprise, common crisis in business Pitfall and their controls Licensing & Registration: Formalities for obtaining Trade License from Panchayath/Municipal agencies Formalities for obtaining PAN Card, TAN, Service Tax & VAT Registration. 	Lecture, PPT and Discussion	2 hrs



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VIRENDRA PAI
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MODULE X Business Strategy & Growth			
32	Enterprise growth, expansion & diversification <ul style="list-style-type: none"> • Critical factors contributing to the sustenance of an enterprise • Need for growth in the enterprise • Various avenues for growth of an enterprise • Product addition, product deletion and product substitution • Forward & backward linkages 	Lecture, PPT, Exercise	2 hrs
33	Assessment & Evaluation Test	Exercise	2 hrs



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MINOR CERTIFICATION

SL No	Subject	Mode of delivery	Hrs
Core Paper- I	MODULE I-Introduction to Entrepreneurship		4 Cr.
1	Registration & Inauguration. <ul style="list-style-type: none"> • A formal gathering • Introduction of trainers • Objectives of the programme • Rules & Regulations of the Institute 	Lecture, Video	2 hrs
2	Rapport building & unfreezing – Ice breaking exercise <ul style="list-style-type: none"> • Climate Setting & confidence building by Ice Breaking exercises • Familiarizing themselves with each other • Importance of interaction in the learning process • Psychological approach –Rising participants' consciousness • Shedding shyness, reservations, inferiority complex etc. 	Games, Exercises, Group discussion, Skits etc	2 hrs
MODULE II - Achievement Motivation and positive psychology			
3	Achievement Motivation - Confidence building <ul style="list-style-type: none"> • What is motive? Internal & External Motivation • Motivational Factors leading to motivation • Positive thinking • Shedding negative feelings • Experience Sharing by successful entrepreneurs • Motivational video clips • Scope for Self employment 	Lecture PPT Video	2 hrs
4	Why self-employment - Advantages over wage employment, Entrepreneurship Development <ul style="list-style-type: none"> • Need and importance of embarking on self employment • Advantages of self employment vis-à-vis wage employment • Assessing self to know entrepreneurial tendencies • Process of Entrepreneurship Development • Importance of behavioral changes for entrepreneurship • Difference between Income Generating Activity, Self Employment and Entrepreneurship • Characteristics of an entrepreneur –Dynamics of Entrepreneurship • Attitude and its impact on Entrepreneurship 	Group Discussion, PPT	2 hrs
5	Self Rating Questionnaire(SRQ) on Competencies – Administering self rating questionnaire from Achievement Motivation Training Workbook	Exercise	



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MODULE III- Entrepreneurial Competencies			
6	<p>Entrepreneurial competencies – importance, explanation with examples, case study for identification of different competencies</p> <ul style="list-style-type: none"> Defining Competencies – Combination of knowledge, skill, motive and trait Understanding all the 15 Competencies Relevance of entrepreneurial Competencies at different stages of enterprise launching and management Facilitating internalizing the entrepreneurial competencies by way of stories, viewing videos etc. Identifying entrepreneurial competencies through a case study How success is related to Entrepreneurial Competencies 	<p>Lecture, PPT, Group Discussion, Video Clips & Case Study</p>	8 hrs
	Self Rating Questionnaire(SRQ) on Competencies - evaluation	Exercise	
7	<p>Ring Toss Exercise</p> <ul style="list-style-type: none"> Importance of Risk Taking & Goal setting for becoming an entrepreneur Examine one's own risk taking behavior i.e. a high risk taker, moderate or low risk taker by administering Ring Toss exercise Need to take Moderate and calculated risk 	<p>Game, Discussion, Lecture, PPT</p>	4 hrs
8	<p>Systematic Planning & Efficiency Orientation – Boat building exercise</p> <ul style="list-style-type: none"> What is quality, attributes of quality Factors affecting quality Quality Management Systematic planning 	<p>Game, Discussion, PPT, Lecture</p>	4 hrs
9	<p>Tower Building Exercise – Eradication of Dependency Syndrome</p> <ul style="list-style-type: none"> Role of Self confidence in performing any activity Importance of planning & scanning the environment Developing belief in own ability to complete a given task/face a challenge without depending upon external assistance 	<p>Game, Discussion, Lecture</p>	4 hrs



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Core Paper-2	MODULE IV - Personal Skills		2 Cr.
10	Problem Solving & Creativity <ul style="list-style-type: none"> • Need for developing problem solving skills • Process involved in problem solving • Importance of Creativity in Entrepreneurship 	Lecture, PPT, Video, Games	2hrs
11	Effective Communication <ul style="list-style-type: none"> • Importance of communication skills in running an enterprise • Elements of effective communication • Barriers of effective communication & the ways to overcome it 	Lecture, PPT, Exercise	2 hrs
12	Time Management <ul style="list-style-type: none"> • Time Management – time as a resource • Key factors of managing the time effectively • Prioritizing the work 	Lecture, PPT, Discussion	2 hrs
Core Paper – 3	MODULE V - Business Management		4 Cr.
13	Banking - Deposits & Advances, Lending Schemes / Government Sponsored Schemes <ul style="list-style-type: none"> • Various Deposit Schemes and other services of banks • General Advances -Security Norms & margin requirement • Term Loan & Working Capital finance • MSME Credit • Mudra Loan • PMEGP Scheme • CGTMSE Scheme 	Lecture, PPT, Discussion	4 hrs
14	Marketing Management/Packaging/branding <ul style="list-style-type: none"> • Indian rural market an overview • Elements of successful marketing • Market segmentation • 4 Ps of marketing • Marketing mix • Product mix • Unique Selling Proposition • Need for understanding consumer behavior and preferences • Importance of customer service • Marketing strategies for exploring opportunities in rural market • Online marketing 	Lecture, PPT, Discussion	4 hrs
	Costing & Pricing, Fixed cost & Variable Cost, Breakeven point etc. <ul style="list-style-type: none"> • Components of direct and indirect, fixed and variable cost • Importance of Costing in profitability • Concepts of pricing and factors affecting pricing decisions 	Lecture Discussion PPT and Exercise <div style="text-align: right; font-size: small;"> Signed By: Registrar - VIRENDRA PAL RAKESH I attest to the accuracy and authenticity of this document. Location: IIMT University Meerut Date: 01.01.2024 19:55 </div>	2 hrs

15	<ul style="list-style-type: none"> Commercial feasibility of an enterprise Break Even analysis 		
16	Inventory Management <ul style="list-style-type: none"> Stocking Pattern Demand Forecasting, Warehouse Flow, Inventory Turns/Stock Rotation, Cycle Counting And Process Auditing. 	Lecture, Discussion, PPT and Exercise	2 hrs
17	Working Capital and its Management <ul style="list-style-type: none"> What is Working Capital Effect of Credit policies on working capital Key points to note while managing working capital Cycles of Working Capital 	Discussion, Lecture, PPT, Exercise	2 hrs
18	Book Keeping & accountancy – cash book, sales & purchases, book keeping methodology <ul style="list-style-type: none"> Various types of records to be maintained in small enterprises - Cash Book, General Ledger etc. Accounting methodology Various heads of accounts and how to appropriate expenditure there in Financial Statements 	Lecture, PPT, Discussion, Exercise & Case Study	4 hrs
19	Insurance <ul style="list-style-type: none"> Importance of securing assets through insurance Types of insurance cover available General Insurance (fire, theft, burglary etc) Insurance Schemes of the Government How to claim insurance 	Lecture, PPT, Discussion	2 hrs
20	Business Laws – Taxation & related laws: <ul style="list-style-type: none"> Legal aspects of weights and measures IT, VAT Sales Tax, state and central Govt. Rules and regulations in business Compliance for various statutory requirements VAT, CST, Income Tax etc. Compliance for various statutory requirements (VAT, CST, Income Tax etc.) 	Lecture, PPT, Discussion, Exercise	2 hrs



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21	<p>Inter personal relationship, Labor Management</p> <ul style="list-style-type: none"> • Importance of maintaining good inter personal relationship with related people in business • Need for leadership in the enterprise development • Various styles of Leadership • Characteristics of a good leader 	Lecture, PPT, Discussion	2 hrs
22	<p>IT Factor in managing an enterprise - impending need.</p> <ul style="list-style-type: none"> • Importance of Computer literacy & basic knowledge of computers • E filing of various tax returns • Online marketing 	Lecture, PPT, Exercise	4 hrs
MODULE VI - Business Opportunity Identification Guidance			
23	<p>Business Opportunity Guidance – Description of methodology, case study – group exercise, Selection of product / service</p> <ul style="list-style-type: none"> • What is a business idea / • Tools for generating business idea • Screening of business idea –Macro screening & Micro screening • Selection of business idea • SWOT Analysis 	Group Discussion, Lecture, PPT	4 hrs
MODULE VII - Market Survey			
24	<p>Market Survey – methodology, sources, nature of information to be collected</p> <ul style="list-style-type: none"> • Need for market survey • Methodology to collect and use the information generated • How to develop an effective survey plan for the selected activity • Dos & donts for conducting market survey • Questionnaire for market survey • Market survey report format 	Lecture, Group Discussion, PPT	4 hrs
25	<p>Market survey – Collection of information, field work.</p> <p>Candidates will go to the market and collect information of identified/potential activity to assess the demand /supply position, market trends, marketing practices, competition, current state of technology etc.</p>	Practical work	8 hrs
26	<p>Market Survey – Report Writing, Presentation of market survey report, discussion on presentation</p> <p>Candidate will prepare Market survey report and present the report in the class followed by discussion to be moderated by the resource Person.</p>	Group Discussion, Lecture, PPT	4 hrs



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MODULE III - Business Plan Preparation			
27	Business Plan Preparation? <ul style="list-style-type: none"> Plan format How to ascertain initial viability of a business proposal Enlisting technical, financial, marketing and commercial aspects of business Profitability 	Lecture, PPT, Exercise, Discussion	4 hrs
Core Paper-4	MODULE –IX Launching Formalities		4 Cr.
28	Field Visit to units established & successfully run by first generation entrepreneurs Candidates are taken for exposure visits to Enterprises established and successfully managed by RSETI trained Entrepreneurs where in they will be able to: <ul style="list-style-type: none"> Know various steps involved in establishing a Micro Enterprise Understand how a Micro Enterprise is managed To identify the Entrepreneurial competencies & Entrepreneurial behavior To analyze the external factors influencing the success or failure of the enterprise. To analyze the internal factors affecting success or failure of the enterprise/entrepreneur. To identify the areas/issues which can be addressed by RSETI, in a similar case, to facilitate success of the entrepreneur 	Field Visit, Interaction	6 hrs
29	Interaction with successful entrepreneurs <ul style="list-style-type: none"> Identify factors responsible for the development of the entrepreneur Assess the Entrepreneurial Competencies of the Entrepreneur Impact of EDP training inputs Understand how the entrepreneur reacts to a challenging situation 	Interaction followed by discussion	2 hrs
30	Resource mobilization, supporting organizations. <ul style="list-style-type: none"> Support systems available at various District/State/national level State/Central Government Schemes for giving impetus for entrepreneurship development 	Lecture, PPT, Discussion	2 hrs
31	Launching formalities <ul style="list-style-type: none"> Steps in launching of an enterprise, common crisis in business Pitfall and their controls Licensing & Registration: Formalities for obtaining Trade License from Panchayath/Municipal agencies Formalities for obtaining PAN Card, TAN, Service Tax & VAT Registration. 	Lecture, PPT and Discussion	2 hrs



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MODULE X Business Strategy & Growth			
32	Enterprise growth, expansion & diversification <ul style="list-style-type: none"> • Critical factors contributing to the sustenance of an enterprise • Need for growth in the enterprise • Various avenues for growth of an enterprise • Product addition, product deletion and product substitution • Forward & backward linkages 	Lecture, PPT, Exercise	2 hrs
33	Assessment & Evaluation Test	Exercise	2 hrs



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Dr. Deepa sharma <advisor.iimt@iimtindia.net>

minor certification course in E and I in third year of UG course of your school

5 messages

Dr. Deepa sharma <advisor.iimt@iimtindia.net>

Tue, Sep 28, 2021 at 12:16 PM

To: "Dr. Satish Kumar Singh" <deanccmiimtuniversity@iimtindia.net>, "Dr. Prof. Anuj Mittal" <dean_pharma@iimtindia.net>, "Dr Prof. (Dr.) N.K. Pruthi" <dean_agrisc@iimtindia.net>, dean_cet@iimtindia.net, "Dr. Deepak Sinha" <deanrsa@iimtindia.net>
Cc: VC IIIMT University <vciimtuniversity@iimtindia.net>

Dear Sir,

It was decided to integrate a minor certification course in E and I in third year of UG course of your school. The syllabus of the same is already shared with you, kindly share the evaluation scheme with the inclusion of the said certification by today 3pm on urgent basis.

thanxs

--

Dr. Deepa Sharma
Advisor & Dean - Research & Planning
IIIMT University, Meerut (U.P.)

VC IIIMT University <vciimtuniversity@iimtindia.net>

Tue, Sep 28, 2021 at 2:22 PM

To: "Dr. Deepa sharma" <advisor.iimt@iimtindia.net>
Cc: "Dr. Satish Kumar Singh" <deanccmiimtuniversity@iimtindia.net>, "Dr. Prof. Anuj Mittal" <dean_pharma@iimtindia.net>, "Dr Prof. (Dr.) N.K. Pruthi" <dean_agrisc@iimtindia.net>, "Dr.A.K. Chauhan" <dean_cet@iimtindia.net>, "Dr. Deepak Sinha" <deanrsa@iimtindia.net>

Received your mail.
With best wishes,

Yours truly

Vice Chancellor

[Quoted text hidden]

Dean Agricultural Science <dean_agrisc@iimtindia.net>

Tue, Sep 28, 2021 at 5:32 PM

To: VC IIIMT University <vciimtuniversity@iimtindia.net>, "Dr. Deepa Sharma" <advisor.iimt@iimtindia.net>

Respected Sir/ Madam,

We are already studying a core course in the UG program (B.Sc.Ag.) entitled Entrepreneurship Development and Business Communication

Code (AG-505) in V Sem (3rd Year) recommended by 5th dean committee (ICAR) of 75 marks. So, should we go for a minor course for certification in E & I separately?

Warm Regards

Prof.(Dr) N.K. Pruthi
Dean,School of Agricultural Sciences
IIIMT,University, Meerut 250001 UP

[Quoted text hidden]

Dr. Dinesh K Sharma <dean_cet@iimtindia.net>

To: "Dr. Deepa sharma" <advisor.iimt@iimtindia.net>

Cc: "vciimtuniversity@iimtindia.net" <vciimtuniversity@iimtindia.net>

Tue, Sep 28, 2021 at 6:02 PM



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Madam,

As per telephonic discussion with you, the evaluation schemes of all concerned programs (including minor certification courses in all UG programs) was sent to your office in last week. If further, any requirement, please let me know.

Yours sincerely,
Dean-SET

[Quoted text hidden]

VC IIMT University <vciimtuniversity@iimtindia.net>
To: "Dr. Dinesh K Sharma" <dean_cet@iimtindia.net>
Cc: "Dr. Deepa sharma" <advisor.iimt@iimtindia.net>

Wed, Sep 29, 2021 at 9:01 AM

Thanks a lot.
With best wishes,

Yours truly

Vice Chancellor

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INNOVATION & ENTREPRENEURSHIP

Code: KMBN302

Credits: 3 Teaching Hours: 36

COURSE OBJECTIVES:

1. The purpose of this course is to expose the student to the basic concepts of entrepreneurship, functions of entrepreneurs and problems faced by them in the real world
2. To provide insights to students in converting an Idea to an opportunity and develop understanding of various funding sources for a startup
3. Familiarizing the students with SME sector activities, venture capital financing and international entrepreneurial opportunities.
4. To understand the role of innovation and technical change in enterprise and global level economic performance
5. To understand the technological, human, economic, organizational, social and other dimensions of innovation

Unit 1 (7 Hours)

Innovation: Meaning, difference between innovation and creativity, Innovation types & Platforms, Business Model Innovation, Service Innovation, Design-led innovation, Improvisation, Large firm Vs. Start-up innovation, Co-creation and open innovation, developing an innovation strategy, Sources of innovation, Innovation Environment, Creative Destruction

Unit 2 (6 Hours)

Entrepreneurship: Meaning, definition and concept, Factors affecting entrepreneurship, characteristics and skills of an entrepreneur, entrepreneur v/s manager. Concept of intrapreneurship, types of entrepreneurs, functions of entrepreneur, entrepreneurial decision process, challenges faced by entrepreneurs and changing role of entrepreneur. Women enterprises, social, and rural entrepreneurship

Unit 3 (9 Hours)

Entrepreneurial Finance, Assistance and Entrepreneurial Development Agencies:

Estimating financial funds requirement; Sources of finance – banks, & financial institutions, financing of small-scale industries in developing countries.

Role of central government and state government in promoting entrepreneurship with various incentives, subsidies, grants, export oriented units – fiscal & tax concessions, other government initiatives and inclusive entrepreneurial growth. Overview of MSME policy of government in India,

Role of agencies assisting entrepreneurship: DICs, SSIs, NSICs, EDIIINIESBUD, NEDB, Entrepreneurship Development Institute (EDI). New initiatives taken by government to promote entrepreneurship

Unit 4 (9 Hours)

From Idea to opportunity: Idea generation- sources and methods, identification and classification of ideas. Individual creativity: idea to business opportunity, Opportunity



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assessment, Process of New Venture and its Challenges, Venture capital, Angel investing, Crowdfunding

Developing a Business Plan: Business Planning Process: elements of business planning, preparation of project plan, components of an ideal business plan – market plan, financial plan, operational plan, and, Feasibility Analysis – aspects and methods: Economic analysis, financial analysis, market-, and technological feasibility.

Unit 5 (5 Hours)

Launching a New Venture: Steps involved in launching a business (Process charts), Various Forms of business ownership, Registration of business units; start-up to going IPO; revival, exit and end to a venture.

COURSE OUTCOMES

Course Outcome	Expected Levels of Learning as per Bloom’s Taxonomy for Assessment of Course Outcome.
CO 1: Remember and comprehend basic concepts of entrepreneurship	<ul style="list-style-type: none"> Remembering (K1) Knowledge (K 2) Comprehending(K3)
CO2: Develop knowledge on Entrepreneurial Finance, Assistance and role of Entrepreneurial Development Agencies	<ul style="list-style-type: none"> Applying (K 4) Analyzing (K 5) Evaluating (K7)
CO3: Develop understanding of converting an Idea to an opportunity and develop understanding of various funding sources	<ul style="list-style-type: none"> Analyzing (K 5) Evaluating (K7)
CO4: Gain in depth knowledge of innovation and its various sources	<ul style="list-style-type: none"> Remembering (K1) Knowledge (K 2) Analyzing (K 5)
CO5: Develop understanding of various dimensions of innovation along with current trends and general awareness of innovation and startup	<ul style="list-style-type: none"> Knowledge (K 2) Synthesizing (K6) Evaluating (K7)

Suggested Readings

- Roy: Entrepreneurship, OUP
- Ahmad, Ali and Bhatt, Punita.: Entrepreneurship in Developing and Emerging Economies, SAGE Publishing India
- Mitra, Jay: The Business of Innovation, 2017, SAGE Publishing
- Entrepreneurship 10th Ed (Indian Edition) 2016 by Robert Hirsch Michael Peters Dean Shepherd, McGraw Hill
- Khanka, S.S.; Entrepreneurial Development; S. Chand and Co.
- Kumar, Arya; Entrepreneurship; Pearson Education.
- Desai, Vasant; Dynamics of Entrepreneurial Development and Management; Himalaya

Publishing

8. Blundel, R. and Lockett, N.; Exploring Entrepreneurship Practices and Perspectives; Oxford Publications.

9. Dollinger, M. J.; Entrepreneurship: New Venture Creation; PHI Learning.

10. "Reinventing Your Business Model" by Mark W. Johnson, Clayton M. Christensen, and Henning Kagermann)

11. Afuah, A.. Innovation Management: Strategies, Implementation, and Profit. Oxford University Press.



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Syllabus I & E (Minor Certification)

Dr. Sanjeev Maheshwari <dean_cet@iimtindia.net>
To: VC IIMT University <vciimtuniversity@iimtindia.net>

Sat, Mar 25, 2023 at 10:01 AM

Respected madam, Please find Syllabus I & E (Minor Certification)

Regards
Dean-SET

 **syllabus I & E (10 credits for 3rd Year) Minor certification.pdf**
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Elective Papers

Sl.No.	Course Id	Discipline	Course Name
1	noc21-ag01	Agriculture Engineering	Fundamentals of Food Process Engineering
2	noc21-ag02	Agriculture Engineering	Dairy and Food process and products technology
3	noc21-ag03	Agriculture Engineering	Thermal Operations in Food Process Engineering: Theory and Applications
4	noc21-ag05	Agriculture Engineering	Organic Farming for Sustainable Agricultural Production
5	noc21-ag06	Agriculture Engineering	Farm Machinery
6	noc21-ag07	Agriculture Engineering	Thermal Processing of Foods
7	noc21-bt27	Biotechnology and Bioengineering	Principles Of Downstream Techniques In Bioprocess
8	noc21-bt29	Biotechnology and Bioengineering	Computer Aided Drug Design
9	noc21-bt30	Biotechnology and Bioengineering	Biomedical nanotechnology
10	noc21-bt34	Biotechnology and Bioengineering	Plant Cell Bioprocessing
11	noc21-bt36	Biotechnology and Bioengineering	Experimental Biotechnology
12	noc21-bt37	Biotechnology and Bioengineering	Drug Delivery: Principles and Engineering
13	noc21-bt38	Biotechnology and Bioengineering	Fundamentals of micro and nanofabrication
14	noc21-cy30	Chemistry	Organic Chemistry in Biology and Drug Development
15	noc21-cy43	Chemistry	Spectroscopic Techniques for Pharmaceutical and Biopharmaceutical Industries
16	noc21-cy49	Chemistry	Concepts of chemistry for engineering
17	noc21-cs54	Computer Science and Engineering	Problem solving through Programming In C
18	noc21-cs55	Computer Science and Engineering	Programming in C++
19	noc21-cs56	Computer Science and Engineering	Programming in Java
20	noc21-cs57	Computer Science and Engineering	Object Oriented Analysis and Design
21	noc21-cs58	Computer Science and Engineering	Data Base Management System
22	noc21-cs59	Computer Science and Engineering	Scalable Data Science
23	noc21-cs60	Computer Science and Engineering	Hardware modeling using verilog
24	noc21-cs61	Computer Science and Engineering	Computer architecture and organization
25	noc21-cs62	Computer Science and Engineering	Cloud computing
26	noc21-cs63	Computer Science and Engineering	Introduction to internet of things
27	noc21-cs64	Computer Science and Engineering	Switching Circuits and Logic Design
28	noc21-cs65	Computer Science and Engineering	Software Engineering
29	noc21-cs66	Computer Science and Engineering	Introduction to Industry 4.0 and Industrial Internet of Things
30	noc21-cs67	Computer Science and Engineering	Programming, Data Structures And Algorithms Using Python
31	noc21-cs68	Computer Science and Engineering	Design and analysis of algorithms
32	noc21-cs69	Computer Science and Engineering	Data Science for Engineers
33	noc21-cs70	Computer Science and Engineering	Introduction to Machine Learning - IITM
34	noc21-cs71	Computer Science and Engineering	Reinforcement Learning
35	noc21-cs72	Computer Science and Engineering	Introduction to Operating Systems
36	noc21-cs73	Computer Science and Engineering	Software Testing
37	noc21-cs74	Computer Science and Engineering	Social Networks
38	noc21-cs75	Computer Science and Engineering	The Joy of Computing using Python
39	noc21-cs76	Computer Science and Engineering	Deep learning - IITRopar
40	noc21-cs77	Computer Science and Engineering	Introduction To Haskell Programming
41	noc21-cs78	Computer Science and Engineering	Python for Data Science
42	noc21-cs79	Computer Science and Engineering	Artificial Intelligence Search Methods For Problem Solving
43	noc21-cs80	Computer Science and Engineering	Discrete Mathematics
44	noc21-cs81	Computer Science and Engineering	C Programming and Assembly Language
45	noc21-cs82	Computer Science and Engineering	Multi-Core Computer Architecture – Storage and Interconnects
46	noc21-cs83	Computer Science and Engineering	Theory of Computation
47	noc21-cs84	Computer Science and Engineering	Modern Algebra
48	noc21-cs85	Computer Science and Engineering	Introduction to Machine Learning - IITKGP
49	noc21-cs86	Computer Science and Engineering	Big Data Computing
50	noc21-cs87	Computer Science and Engineering	Distributed Systems
51	noc21-cs88	Computer Science and Engineering	Operating System Fundamentals
52	noc21-cs89	Computer Science and Engineering	Introduction to algorithms and analysis
53	noc21-cs90	Computer Science and Engineering	Computational Complexity
54	noc21-cs91	Computer Science and Engineering	Secure Computation: Part I
55	noc21-cs92	Computer Science and Engineering	Parameterized Algorithms
56	noc21-cs93	Computer Science and Engineering	Deep Learning for Computer Vision
57	noc21-cs94	Computer Science and Engineering	Demystifying Networking

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Elective Papers

Sl.No.	Course Id	Discipline	Course Name
58	noc21-cs95	Computer Science and Engineering	Advanced computer architecture
59	noc21-cs96	Computer Science and Engineering	C-Based VLSI Design
60	noc21-cs97	Computer Science and Engineering	Computer Graphics
61	noc21-cs98	Computer Science and Engineering	Real-Time Systems
62	noc21-cs99	Computer Science and Engineering	Getting Started with Competitive Programming
63	noc21-cs100	Computer Science and Engineering	Algorithms for protein modelling and engineering
64	noc21-cs101	Computer Science and Engineering	Computer Vision
65	noc21-cs102	Computer Science and Engineering	Natural Language Processing
66	noc21-cs103	Computer Science and Engineering	Introduction to Quantum Computing: Quantum Algorithms and Qiskit
67	noc21-cs104	Computer Science and Engineering/Mathematics	Probability for Computer Science
68	noc21-de08	Design Engineering	Control systems
69	noc21-de09	Design Engineering	System Design for Sustainability
70	noc21-de10	Design Engineering	Ergonomics Workplace Analysis
71	noc21-de11	Design Engineering	Geographic Information System
72	noc21-de12	Design Engineering	Functional and Conceptual Design
73	noc21-de13	Design Engineering	Introduction to robotics
74	noc21-de14	Design Engineering	Innovation by Design
75	noc21-de15	Design Engineering	Understanding Design
76	noc21-de16	Design Engineering	Design, Technology and Innovation
77	noc21-de17	Design Engineering	Understanding Ethnography
78	noc21-ee60	Electrical and Electronics Engineering	Fabrication Techniques for MEMs-based sensors : clinical perspective
79	noc21-ee61	Electrical and Electronics Engineering	Op-Amp Practical Applications: Design, Simulation and Implementation
80	noc21-ee62	Electrical and Electronics Engineering	Design of photovoltaic systems
81	noc21-ee63	Electrical and Electronics Engineering	Advances in UHV Transmission and Distribution
82	noc21-ee64	Electrical and Electronics Engineering	Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications
83	noc21-ee65	Electrical and Electronics Engineering	Principles of Communication Systems: Part - II
84	noc21-ee66	Electrical and Electronics Engineering	Introduction to Wireless and Cellular Communications
85	noc21-ee67	Electrical and Electronics Engineering	Control engineering
86	noc21-ee68	Electrical and Electronics Engineering	Introduction to Smart Grid
87	noc21-ee69	Electrical and Electronics Engineering	Electrical Distribution System Analysis
88	noc21-ee70	Electrical and Electronics Engineering	Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink
89	noc21-ee71	Electrical and Electronics Engineering	Electrical Machines - I
90	noc21-ee72	Electrical and Electronics Engineering	Microwave Theory and Techniques
91	noc21-ee73	Electrical and Electronics Engineering	Fundamentals of Electrical Engineering
92	noc21-ee74	Electrical and Electronics Engineering	Analog communication
93	noc21-ee75	Electrical and Electronics Engineering	Digital Circuits
94	noc21-ee76	Electrical and Electronics Engineering	Millimeter Wave Technology
95	noc21-ee77	Electrical and Electronics Engineering	Power system analysis
96	noc21-ee78	Electrical and Electronics Engineering	Digital Image Processing



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Elective Papers

Sl.No.	Course Id	Discipline	Course Name
97	noc21-ee79	Electrical and Electronics Engineering	Pattern Recognition and Application
98	noc21-ee80	Electrical and Electronics Engineering	Semiconductor Devices and Circuits
99	noc21-ee81	Electrical and Electronics Engineering	Optical Engineering
100	noc21-ee82	Electrical and Electronics Engineering	Applied Electromagnetics For Engineers
101	noc21-ee83	Electrical and Electronics Engineering	Electromagnetic Theory
102	noc21-ee85	Electrical and Electronics Engineering	Design for internet of things
103	noc21-ee86	Electrical and Electronics Engineering	Microelectronics: Devices To Circuits
104	noc21-ee87	Electrical and Electronics Engineering	Introduction to Photonics
105	noc21-ee88	Electrical and Electronics Engineering	Microwave Engineering
106	noc21-ee89	Electrical and Electronics Engineering	Analog Electronic Circuits
107	noc21-ee90	Electrical and Electronics Engineering	Enclosure design of electronics equipment
108	noc21-ee91	Electrical and Electronics Engineering	Computational Electromagnetics
109	noc21-ee92	Electrical and Electronics Engineering	Probability Foundations for Electrical Engineers
110	noc21-ee93	Electrical and Electronics Engineering	Stochastic Modeling and the Theory of Queues
111	noc21-ee94	Electrical and Electronics Engineering	Digital Switching - I
112	noc21-ee95	Electrical and Electronics Engineering	Basics of software defined Radios and Practical Applications
113	noc21-ee96	Electrical and Electronics Engineering	Dc Microgrid and Control System
114	noc21-ee97	Electrical and Electronics Engineering	System Design Through VERILOG
115	noc21-ee98	Electrical and Electronics Engineering	Integrated Photonics Devices and Circuits
116	noc21-ee99	Electrical and Electronics Engineering	Basic Electrical Circuits
117	noc21-ee59	Electrical and Electronics Engineering	Introduction to Semiconductor Devices
118	noc21-ee100	Electrical and Electronics Engineering	Image Signal Processing
119	noc21-ee101	Electrical and Electronics Engineering	Introductory Neuroscience & Neuro-Instrumentation
120	noc21-ee102	Electrical and Electronics Engineering	Signal Processing for mm Wave communication for 5G and beyond
121	noc21-ee103	Electrical and Electronics Engineering	Power Quality
122	noc21-ee104	Electrical and Electronics Engineering	Control and Tuning Methods in Switched Mode Power Converters
123	noc21-ee105	Electrical and Electronics Engineering	Mathematical Aspects of Biomedical Electronic System Design
124	noc21-ee106	Electrical and Electronics Engineering	Concentration inequalities
125	noc21-ee107	Electrical and Electronics Engineering	Electrical Measurement and Electronic Instrumentation
126	noc21-ee108	Electrical and Electronics Engineering	Principles and Techniques of Modern Radar Systems

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Elective Papers

Sl.No.	Course Id	Discipline	Course Name
127	noc21-ee109	Electrical and Electronics Engineering	Power System Protection
128	noc21-ee110	Electrical and Electronics Engineering	Power System Protection and Switchgear
129	noc21-ee111	Electrical and Electronics Engineering	Advanced Microwave Guided-Structures and Analysis
130	noc21-ee112	Electrical and Electronics Engineering	Electric vehicles and Renewable energy
131	noc21-ee113	Electrical and Electronics Engineering	Linear Systems Theory
132	noc21-ee114	Electrical and Electronics Engineering	Fiber Optic Communication Technology
133	noc21-hs57	Humanities and Social Sciences	Developing Soft Skills and Personality
134	noc21-hs70	Humanities and Social Sciences	Patent Drafting for Beginners
135	noc21-hs71	Humanities and Social Sciences	Patent Law for Engineers and Scientists
136	noc21-hs84	Humanities and Social Sciences	Introduction to Market Structures
137	noc21-hs102	Humanities and Social Sciences	Entrepreneurship and IP Strategy
138	noc21-hs103	Humanities and Social Sciences	Patent Search for Engineers and Lawyers
139	noc21-hs107	Humanities and Social Sciences	Spoken Sanskrit: Basic and Intermediate Levels
140	noc21-mg63	Management	Innovation, Business Models and Entrepreneurship
141	noc21-mg67	Management	Marketing research and analysis
142	noc21-mg68	Management	Manufacturing Strategy
143	noc21-mg70	Management	Entrepreneurship
144	noc21-me83	Mechanical Engineering	Product Design and Development
145	noc21-me89	Mechanical Engineering	Advanced Machining Processes
146	noc21-me72	Mechanical Engineering	Manufacturing Systems Technology I & II
147	noc21-me73	Mechanical Engineering	Concepts of Thermodynamics
148	noc21-me74	Mechanical Engineering	Heat Exchangers: Fundamentals and Design Analysis
149	noc21-me75	Mechanical Engineering	Fluid Machines
150	noc21-me76	Mechanical Engineering	Robotics
151	noc21-me77	Mechanical Engineering	Foundation of Computational Fluid Dynamics
152	noc21-me78	Mechanical Engineering	Advances in welding and joining technologies
153	noc21-me79	Mechanical Engineering	Principle of Hydraulic Machines and System Design
154	noc21-me80	Mechanical Engineering	Introduction to Mechanical Vibration
155	noc21-me81	Mechanical Engineering	Fundamentals of manufacturing processes
156	noc21-me82	Mechanical Engineering	Joining Technologies for metals
157	noc21-me84	Mechanical Engineering	Work System Design
158	noc21-me85	Mechanical Engineering	Refrigeration and air-conditioning
159	noc21-me86	Mechanical Engineering	Power Plant Engineering
160	noc21-me87	Mechanical Engineering	Principles of Metal Forming Technology
161	noc21-me88	Mechanical Engineering	Theory of Production Processes
162	noc21-me90	Mechanical Engineering	Elements of metal cutting, Machine tools, gear cutting and CNC machining
163	noc21-me91	Mechanical Engineering	Fundamentals of Conduction and Radiation
164	noc21-me92	Mechanical Engineering	Applied Thermodynamics For Engineers
165	noc21-me93	Mechanical Engineering	Dynamic Behaviour Of Materials
166	noc21-me94	Mechanical Engineering	Steam Power Engineering
167	noc21-me95	Mechanical Engineering	Aircraft Propulsion
168	noc21-me96	Mechanical Engineering	Advanced Dynamics
169	noc21-me97	Mechanical Engineering	Production Technology: Theory and Practice
170	noc21-me99	Mechanical Engineering	Welding Application Technology
171	noc21-me100	Mechanical Engineering	Foundations of Cognitive Robotics
172	noc21-me101	Mechanical Engineering	Principles of Vibration Control
173	noc21-me102	Mechanical Engineering	Design Practice - II
174	noc21-me103	Mechanical Engineering	Polymer Assisted Abrasive Finishing Processes
175	noc21-me104	Mechanical Engineering	Rapid Manufacturing
176	noc21-me105	Mechanical Engineering	Engineering Metrology
177	noc21-me106	Mechanical Engineering	RAC Product Design
178	noc21-me107	Mechanical Engineering	Foundations of Computational Materials Modeling
179	noc21-me108	Mechanical Engineering	Mechanics and Control of Robotic Manipulators



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Elective Papers

Sl.No.	Course Id	Discipline	Course Name
180	noc21-me109	Mechanical Engineering	Basics Of Finite Element Analysis - I
181	noc21-me110	Mechanical Engineering	Introduction To Composites
182	noc21-me111	Mechanical Engineering	Thermodynamics
183	noc21-me112	Mechanical Engineering	Computational Fluid Dynamics using Finite Volume Method
184	noc21-me113	Mechanical Engineering	Basics of Materials Engineering
185	noc21-me115	Mechanical Engineering	Fundamentals of Additive Manufacturing Technologies
186	noc21-me116	Mechanical Engineering	Fundamentals of Convective Heat Transfer
187	noc21-me117	Mechanical Engineering	Solid Mechanics
188	noc21-me118	Mechanical Engineering	Fluid dynamics and turbomachines
189	noc21-me119	Mechanical Engineering	Applied Thermodynamics
190	noc21-me120	Mechanical Engineering	Automation in Manufacturing
191	noc21-me121	Mechanical Engineering	Computational Continuum Mechanics
192	noc21-me122	Mechanical Engineering	Finite Element Method: Variational Methods to Computer Programming
193	noc21-me123	Mechanical Engineering	Fundamentals of Compressible Flow
194	noc21-me124	Mechanical Engineering	Mathematical Modeling of Manufacturing Processes
195	noc21-me125	Mechanical Engineering	Engineering Drawing and Computer Graphics
196	noc21-me126	Mechanical Engineering	Computational Fluid Dynamics
197	noc21-me127	Mechanical Engineering	Introduction to Turbomachinery
198	noc21-me128	Mechanical Engineering	Engineering Graphics and Design
199	noc21-ge15	Multidisciplinary	Introduction to Research
200	noc21-ge16	Multidisciplinary	Ecology and Environment



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Course contents

The Innovation & Entrepreneurship Minor certification integrated with UG degree programme (in prefinal and final years): w.e.f. 2021-22

The Innovation & Entrepreneurship Minor certification integrated with UG course educates students to serve as leaders in the innovation economy with the knowledge, skills, and confidence and to give solutions to real-world problems and enabling them for establishing their own enterprises.

CORE PAPERS

Qualification Title	The Innovation & Entrepreneurship Minor certification integrated with UG programme (in prefinal and final years)
Pre-requisites	Inclination for taking up self employment activities in the interested areas of agriculture / service / manufacture or trade business.
course outcomes	At the end of the training, the candidates will be able to <ol style="list-style-type: none">1. Appreciate the importance of embarking on self-employment and has developed the confidence and personal skills for the same.2. Identify business opportunities in chosen sector / sub-sector and plan and market and sell products / services3. Start a small business enterprise by liaising with different stake holders4. Effectively manage business enterprise



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Sl. No.	Course Component	Key Learning Outcomes	Teaching hours
Core paper-1	Professional Knowledge- <ol style="list-style-type: none"> 1. Introduction to Entrepreneurship 2. Knowledge of Achievement Motivation and Positive Psychology 3. Understanding of the basic aspects of Business Management <ul style="list-style-type: none"> ▪ Concepts related to planning and efficiency ▪ Concepts related to Risk Assessment ▪ Various aspects of financial 	<ul style="list-style-type: none"> ➤ Learner is clearly able to differentiate between wage employment, self-employment and entrepreneurship ➤ Understand, appreciate and develop positive thinking and self-confidence for embarking on self-employment / entrepreneurship. ➤ Learner is able to appreciate the importance of systematic planning in setting up and managing a business enterprise. ➤ Learner is able to understand the concept of efficiency and its key role in success of an enterprise ➤ Learner is able to understand the 	36 Hours (Theory)



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	<p>management</p> <ul style="list-style-type: none"> • Book Keeping and Accountancy • Banking and Sources of Finance • Working Capital Management • Costing and Pricing • Insurance • Business laws and Taxation ▪ Marketing Management <ul style="list-style-type: none"> • Overview of Indian Rural Market • Market Segmentation • 4 Ps of Marketing • Concept of USP • Marketing Mix • Market Survey 4. Legal aspects ,regulatory aspects of SMEs and Launching Formalities 5. Business Strategy and Growth 	<p>concept of Risk and Risk Assessment and Risk Taking Ability</p> <ul style="list-style-type: none"> ➤ Learner knows various aspects of financial management and its key role in the success of small business enterprise. ➤ Learner has understood the concepts relating to Insurance and taxation and its role in ensuring proper functioning of an enterprise. ➤ Knows the legal aspects governing MSMEs ➤ Understands the concept of Government regulation with examples of various sectors. ➤ Understands the procedure involved in launching an enterprise and issues involved in the same. ➤ Knows the concept of 'business strategy' and importance of growth oriented thinking and planning. 	
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<p>Core paper:2</p>	<p>➤ Professional Skills</p> <p>➤ Ability to develop understanding of self and do SWOT Analysis</p> <p>➤ Abilities relating to self motivation and developing positive Psychology</p> <p>➤ Entrepreneurial Competencies (RUDSETI Model of 15 Competencies)</p> <p>➤ Business Management Skills in the following areas:</p> <ul style="list-style-type: none"> ○ Financial Management ○ Operations Management ○ Materials and Inventory Management 	<p>➤ Engage in process of self understanding (to limited extent) through reflection and peer feedback</p> <p>➤ Is able to do one's own SWOT analysis</p> <p>➤ Has developed the ability to engage in positive thinking</p> <p>➤ Knows how to motivate one-self and others</p> <p>➤ Is able to know and practice the 15 entrepreneurial competences such as:</p> <ul style="list-style-type: none"> ○ Initiative ○ Identifying and acting on opportunities ○ Persistence ○ Information management ○ Quality orientation 	<p>36 Hours</p>
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	<ul style="list-style-type: none"> ➤ Marketing Management ➤ Business Opportunities Identification Techniques ➤ Conducting Market Survey ➤ Preparation of Business Plan 	<ul style="list-style-type: none"> ➤ Honoring Commitments ➤ Systematic Planning ➤ Efficiency Orientation ➤ Problem solving abilities ➤ Developing self-confidence ➤ Assertiveness ➤ Persuasion ➤ Ability to influence others ➤ Ability to monitor self and others ➤ Concern and respect for others especially employees ➤ Ability to maintain simple books of accounts and prepare financial statement for small business ➤ Ability to estimate cash flow and manage the same ➤ Skills in goods and inventory management ➤ Ability to engage in the exercise of indentifying business opportunities in chosen sector / sub-sector /area of work by gathering and analyzing information from multiple sources ➤ Skills and ability to conduct market survey in local area on a limited scale ➤ Ability to prepare simple business plan as per given instructions / protocol provided. Trainee is able to analyze major trends in a given economic sector / sub-sector and identify Business Opportunities ➤ Trainees able to devise a simple marketing and sales strategies and plan for a small business 	<div style="text-align: right;"> <p>Signed By: Registrar - VIRENDRA PAL RAKESH I attest to the accuracy and authenticity of this document Location: IIMT University Merut 26.01.2024 19:55</p> </div> <div style="text-align: center;">  </div>
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3	<p>Core Skills</p> <ul style="list-style-type: none"> ➤ Communication Skills ➤ Time Management Skills ➤ Problem Solving ➤ Creative Thinking ➤ Developing healthy Inter- personal relationship ➤ Team Work Abilities ➤ Leadership Abilities 	<ul style="list-style-type: none"> ➤ Ability to communicate effectively – both oral and written ➤ Effectively use various forms of media for business communication ➤ Ability to plan and manage time and take decisions to ensure good time management ➤ Skills of problem solving and lateral thinking ➤ Think creatively and out of the box ➤ Manage inter-personal relationship at work place and resolve conflict ➤ Able to manage small team of workers ➤ Demonstrate leadership abilities in difficult situations 	
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Entrepreneurship Development Programme (EDP) for Micro Entrepreneurs –

SL No	Subject	Mode of delivery	Hrs
MODULE I- Introduction to Entrepreneurship			
1	Registration & Inauguration. <ul style="list-style-type: none"> A formal gathering Introduction of trainers Objectives of the programme Rules & Regulations of the Institute 	Lecture, Video	2 hrs
2	Rapport building & unfreezing – Ice breaking exercise <ul style="list-style-type: none"> Climate Setting & confidence building by Ice Breaking exercises Familiarizing themselves with each other Importance of interaction in the learning process Psychological approach –Rising participants’ consciousness Shedding shyness, reservations, inferiority complex etc. 	Games, Exercises, Group discussion, Skits etc	2 hrs
MODULE II - Achievement Motivation and positive psychology			
3	Achievement Motivation - Confidence building <ul style="list-style-type: none"> What is motive? Internal & External Motivation Motivational Factors leading to motivation Positive thinking Shedding negative feelings Experience Sharing by successful entrepreneurs Motivational video clips Scope for Self employment 	Lecture PPT Video	2 hrs
4	Why self employment - Advantages over wage employment, Entrepreneurship Development <ul style="list-style-type: none"> Need and importance of embarking on self employment Advantages of self employment vis-à-vis wage employment Assessing self to know entrepreneurial tendencies Process of Entrepreneurship Development Importance of behavioral changes for entrepreneurship Difference between Income Generating Activity, Self Employment and Entrepreneurship Characteristics of an entrepreneur –Dynamics of Entrepreneurship Attitude and its impact on Entrepreneurship 	Group Discussion, PPT	2 hrs
5	Self Rating Questionnaire(SRQ) on Competencies – Administering self rating questionnaire from Achievement Motivation Training Workbook		<small>Signed By: Registrar - WENDRA PAL RAKESH I attest to the accuracy and authenticity of this document Location: IIMT University Merut 26.01.2024 19:55</small>

MODULE III - Entrepreneurial Competencies

6	Entrepreneurial competencies – importance, explanation with examples, case study for identification of different competencies <ul style="list-style-type: none">• Defining Competencies – Combination of knowledge, skill, motive and trait	Lecture, PPT, Group Discussion, Video Clips &	8 hrs
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	<ul style="list-style-type: none"> Understanding all the 15 Competencies Relevance of entrepreneurial Competencies at different stages of enterprise launching and management Facilitating internalizing the entrepreneurial competencies by way of stories, viewing videos etc. Identifying entrepreneurial competencies through a case study How success is related to Entrepreneurial Competencies 	Case Study	
	Self Rating Questionnaire(SRQ) on Competencies - evaluation	Exercise	
7	Ring Toss Exercise <ul style="list-style-type: none"> Importance of Risk Taking & Goal setting for becoming an entrepreneur Examine one's own risk taking behavior i.e a high risk taker, moderate or low risk taker by administering Ring Toss exercise Need to take Moderate and calculated risk 	Game, Discussion, Lecture, PPT	4 hrs
8	Systematic Planning & Efficiency Orientation – Boat building exercise <ul style="list-style-type: none"> What is quality, attributes of quality Factors affecting quality Quality Management Systematic planning 	Game, Discussion, PPT, Lecture	4 hrs
9	Tower Building Exercise – Eradication of Dependency Syndrome <ul style="list-style-type: none"> Role of Self confidence in performing any activity Importance of planning & scanning the environment Developing belief in own ability to complete a given task/face a challenge without depending upon external assistance 	Game, Discussion, Lecture	4 hrs
MODULE IV - Personal Skills			
10	Problem Solving & Creativity <ul style="list-style-type: none"> Need for developing problem solving skills Process involved in problem solving Importance of Creativity in Entrepreneurship 	Lecture, PPT, Video, Games	2hrs
11	Effective Communication <ul style="list-style-type: none"> Importance of communication skills in running an enterprise Elements of effective communication Barriers of effective communication & the ways to overcome it 	Lecture, PPT, Exercise	2 hrs

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12	Time Management <ul style="list-style-type: none"> • Time Management – time as a resource • Key factors of managing the time effectively • Prioritizing the work 	Lecture, PPT, Discussion	2 hrs
MODULE V - Business Management			



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13	Banking - Deposits & Advances, Lending Schemes / Government Sponsored Schemes <ul style="list-style-type: none"> • Various Deposit Schemes and other services of banks • General Advances -Security Norms & margin requirement • Term Loan & Working Capital finance • MSME Credit • Mudra Loan • PMEGP Scheme • CGTMSE Scheme 	Lecture, PPT, Discussion	4 hrs
14	Marketing Management/Packaging/branding <ul style="list-style-type: none"> • Indian rural market an overview • Elements of successful marketing • Market segmentation • 4 Ps of marketing • Marketing mix • Product mix • Unique Selling Proposition • Need for understanding consumer behavior and preferences • Importance of customer service • Marketing strategies for exploring opportunities in rural market • Online marketing 	Lecture, PPT, Discussion	4 hrs
15	Costing & Pricing, Fixed cost & Variable Cost, Breakeven point etc. <ul style="list-style-type: none"> • Components of direct and indirect, fixed and variable cost • Importance of Costing in profitability • Concepts of pricing and factors affecting pricing decisions • Commercial feasibility of an enterprise • Break Even analysis 	Lecture, Discussion, PPT and Exercise	2 hrs
16	Inventory Management <ul style="list-style-type: none"> • Stocking Pattern • Demand Forecasting, • Warehouse Flow, • Inventory Turns/Stock Rotation, • Cycle Counting And • Process Auditing. 	Lecture, Discussion, PPT and Exercise	2 hrs
17	Working Capital and its Management <ul style="list-style-type: none"> • What is Working Capital • Effect of Credit policies on working capital • Key points to note while managing working capital • Cycles of Working Capital 	Discussion, Lecture, PPT, Exercise	2 hrs
18	Book Keeping & accountancy – cash book, sales & purchases, book keeping methodology <ul style="list-style-type: none"> • Various types of records to be maintained in small enterprises - Cash Book, General Ledger etc. 	Lecture, PPT, Discussion	4 hrs

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	<ul style="list-style-type: none"> Accounting methodology Various heads of accounts and how to appropriate expenditure there in Financial Statements 	Case Study	
19	Insurance <ul style="list-style-type: none"> Importance of securing assets through insurance Types of insurance cover available General Insurance (fire, theft, burglary etc) Insurance Schemes of the Government How to claim insurance 	Lecture, PPT, Discussion	2 hrs
20	Business Laws – Taxation & related laws: <ul style="list-style-type: none"> Legal aspects of weights and measures IT, VAT Sales Tax, state and central Govt. Rules and regulations in business Compliance for various statutory requirements VAT, CST, Income Tax etc. Compliance for various statutory requirements (VAT, CST, Income Tax etc.) 	Lecture, PPT, Discussion, Exercise	2 hrs
21	Inter personal relationship, Labor Management <ul style="list-style-type: none"> Importance of maintaining good inter personal relationship with related people in business Need for leadership in the enterprise development Various styles of Leadership Characteristics of a good leader 	Lecture, PPT, Discussion	2 hrs
22	IT Factor in managing an enterprise - impending need. <ul style="list-style-type: none"> Importance of Computer literacy & basic knowledge of computers E filing of various tax returns Online marketing 	Lecture, PPT, Exercise	4 hrs
MODULE VI - Business Opportunity Identification Guidance			
23	Business Opportunity Guidance – Description of methodology, case study – group exercise, Selection of product / service <ul style="list-style-type: none"> What is a business idea / Tools for generating business idea Screening of business idea – Macro screening & Micro screening Selection of business idea SWOT Analysis 	Group Discussion, Lecture, PPT	4 hrs
MODULE VII - Market Survey			



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27	Market Survey – methodology, sources, nature of information to be collected <ul style="list-style-type: none"> • Need for market survey • Methodology to collect and use the information generated • How to develop an effective survey plan for the selected activity • Dos & donts for conducting market survey 	Lecture, Group Discussion, PPT	4 hrs
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	<ul style="list-style-type: none"> • Questionnaire for market survey • Market survey report format 		
28	Market survey – Collection of information, field work. Candidates will go to the market and collect information of identified/potential activity to assess the demand /supply position, market trends, marketing practices, competition, current state of technology etc.	Practical work	8 hrs
29	Market Survey – Report Writing, Presentation of market survey report, discussion on presentation Candidate will prepare Market survey report and present the report in the class followed by discussion to be moderated by the resource Person.	Group Discussion, Lecture, PPT	4 hrs
MODULE III - Business Plan Preparation			
30	Business Plan Preparation? <ul style="list-style-type: none"> • Plan format • How to ascertain initial viability of a business proposal • Enlisting technical, financial, marketing and commercial aspects of business • Profitability 	Lecture, PPT, Exercise, Discussion	4 hrs
MODULE –IX Launching Formalities			
27	Field Visit to units established & successfully run by first generation entrepreneurs Candidates are taken for exposure visits to Enterprises established and successfully managed by RSETI trained Entrepreneurs where in they will be able to: <ul style="list-style-type: none"> • Know various steps involved in establishing a Micro Enterprise • Understand how a Micro Enterprise is managed • To identify the Entrepreneurial competencies & Entrepreneurial behavior • To analyze the external factors influencing the success or failure of the enterprise. • To analyze the internal factors affecting success or failure of the enterprise/entrepreneur. • To identify the areas/issues which can be addressed by RSETI, in a similar case, to facilitate success of the entrepreneur 	Field Visit, Interaction	6 hrs
28	Interaction with successful entrepreneurs <ul style="list-style-type: none"> • Identify factors responsible for the development of the entrepreneur • Assess the Entrepreneurial Competencies of the Entrepreneur • Impact of EDP training inputs • Understand how the entrepreneur reacts to a challenging situation 	Interaction followed by discussion	2 hrs

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29	Resource mobilization, supporting organizations. <ul style="list-style-type: none"> • Support systems available at various District/State/national level • State/Central Government Schemes for giving impetus for entrepreneurship development 	Lecture, PPT, Discussion	2 hrs
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30	Launching formalities <ul style="list-style-type: none"> • Steps in launching of an enterprise, common crisis in business • Pitfall and their controls • Licensing & Registration: Formalities for obtaining Trade License from Panchayath/Municipal agencies • Formalities for obtaining PAN Card, TAN, Service Tax & VAT Registration. 	Lecture, PPT and Discussion	2 hrs
MODULE X Business Strategy & Growth			
31	Enterprise growth, expansion & diversification <ul style="list-style-type: none"> • Critical factors contributing to the sustenance of an enterprise • Need for growth in the enterprise • Various avenues for growth of an enterprise • Product addition, product deletion and product substitution • Forward & backward linkages 	Lecture, PPT, Exercise	2 hrs
32	Assessment & Evaluation Test	Exercise	2 hrs



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