



CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

Criteria 1

Curricular Aspects

Metric 1.3.2	Number of value-added courses for imparting transferable and life skills offered during last five years
1.3.2.1	How many new value-added courses are added within the last five years.

Supporting Documents

1	Brochure or any other document relating to value added courses (Year : 2017-18)
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Criteria 1.3.2- Number of value-added courses for imparting transferable and life skills

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Faculty of Technology & Engineering

REGISTRATION FORM

Six Days Certificate Course on

STAAD.Pro

and

ETABS



11th May 2018 to 17th May 2018

Name:

ID No.: Level: UG ☐ PG ☐

Institute:

Address:

E-mail:

Mobile:

Please pay your fees by cash, or cheque or DD in favour of "Chandubhai S. Patel Institute of Technology" payable at Anand.

DD/Cheque No.:

Dated: Rs.:

Drawn on: (Bank)

Signature of Applicant:

Note: Photocopy of this form can be used for Registration.

CONVENER

Dr. V. R. Panchal

Professor & Head,

Department of Civil Engineering

Chandubhai S. Patel Institute of Technology (CSPIT)

Changa – 388 421

E-mail: vijaypanchal.cv@charusat.ac.in

COORDINATORS

Ms. Dipali Patel

Mobile: 99249 99774

E-mail: dipalipatel.cv@charusat.ac.in

Mr. Mohammad H. Jinyawala

Mobile: 99985 86905

E-mail: mohammadjinyawala.cv@charusat.ac.in

IMPORTANT DATES AND VENUE

Course Duration : 11/05/18 to 17/05/18

Last Date of Registration : 5th May, 2018

Confirmation of Participation : 8th May, 2018

Venue: Department of Civil Engineering, CHARUSAT Campus, Changa- 388 421

Charotar University of Science & Technology

CHARUSAT Campus, Changa,

Dist. ANAND - 388421, Gujarat, India

PH. # 02697 – 247500, 248133, Fax # 02697 – 247100

Website : <http://www.charusat.ac.in>

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Six Days Certificate Course on

STAAD.Pro

and

ETABS



Organized by:-

**MANUBHAI SHIVABHAI PATEL DEPARTMENT OF
CIVIL ENGINEERING**

**CHANDUBHAI S. PATEL INSTITUTE OF
TECHNOLOGY (CSPIT)**



CHARUSAT
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

Accredited Grade "A" by NAAC, Government of India

PREAMBLE

- Civil Engineering is an extensive field where number of companies working in different areas such as planning, designing, construction, execution, management etc.
- Companies require project specific skills such as design consultancy require different software skills, for site execution skills to operate different instruments are necessary.
- After completion of UG Course, students may go for higher education or job.
- The training offered by the department will helpful to the participants for getting job in good company as well as in higher studies.

ABOUT THE DEPARTMENT

- Civil Engineering is a broad field of engineering that deals with the planning, construction, and maintenance of built environment and other infrastructure facilities and are closely related to earth, water and environment.
- The Department of Civil Engineering at CSPIT, CHARUSAT was established in year 2008 to impart quality education & conduct research in Civil Engineering to cater the rising needs and demands of the society.
- The Department has constantly been equipping itself with technological advancements of national priority and flexibly adapting to changing scenario in the fields of Civil Engineering.
- The department is also equipped with licensed software's like STAAD Pro. S6, Midas Civil, Bentley Road max, STRUDS 12.0, ESRGSR V4, GEO5, Primevera P6 & Bentley Combined.

OBJECTIVES OF THE WORKSHOP

- To make students aware about the advance technology have been used in civil engineering field
- To fill the gap between the industrial demand and the academic supply

MAJOR AREAS TO BE COVERED

STAAD.Pro & ETABS

- Modeling of structures
- Primary loads with horizontal forces
- Analysis of structures (2D & 3D)
- Design of RCC Frame
- Design of Roof Truss
- Steel Detailing

TRAINERS

- Ms. Dipali Patel (Asst. Prof., CHARUSAT)
- Mr. Mohammad H. Jinya (Asst. Prof., CHARUSAT)

ELIGIBILITY CRITERIA

The PG, UG and Diploma Civil Engineering students can join the course.

25 seats are available per course

Desirous participants should register at the earliest.

REGISTRATION FEES

CATEGORY	FEES
PG, UG & Diploma Students	Rs. 3000 per course

Charges towards tea, snacks, and lunch during the program, shall borne by participants.

ABOUT THE UNIVERSITY

Charotar University of Science & Technology (CHARUSAT) is established under the Gujarat Act No. 8 of 2009, Government of Gujarat. University Grants Commission has empowered CHARUSAT to award Degrees under Section 22 of UGC Act 1956. University recently accredited with "A" by NAAC, Bangalore. CHARUSAT aspires to advance learning and knowledge by teaching and research relevant to the society. A remarkable range of programmes offered at CHARUSAT are paired with an extraordinary breadth of extracurricular activities and opportunities for research, independent study and community service. Through its offering in professional programmes CHARUSAT educates and prepares students to realize their potential to become responsible citizens in a diverse and increasingly interdependent global world.



**CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
(CHARUSAT),
CHANGA – 388 421**

Chandubhai S. Patel Institute of Technology

M. S. Patel Department of Civil Engineering

Name of Event/Course :	Certificate course on STAAD Pro. and ETABS
Date and Time of Event :	11 th May 2018 to 17 st May 2018
Event coordinator :	Dipali Patel & Mohammad H. Jinyawala
Resource person details (if any):	Dipali Patel & Mohammad H. Jinyawala

Objective of the course:

- To make students aware about the advance technology have been used in civil engineering field
- To fill the gap between the industrial demand and the academic supply

Major areas to be covered:

Topics	Hours
Modeling of structures	06
Primary loads with horizontal forces	06
Analysis of structures (2D & 3D)	06
Design of RCC Frame & Detailing	12
Design of Roof Truss	06
Total	36

Course Outcome:

After successful completion of course:

- Students will be able to model the space frame / real building using STAAD Pro. and ETABS software
- Students will be able to design the structures for primary and secondary loads

CHARUSAT

Charotar University of Science and Technology is established under the Gujarat Act No. 8 of 2009, Government of Gujarat. University Grants Commission has empowered CHARUSAT to award Degrees under Section 22 of UGC Act 1956. University recently accredited with "A" by NAAC, Bangalore. The University is identified with cutting edge research, robust academic programmes, quality teaching learning process and over-all personality development interventions of its students. CHARUSAT campus provides refreshing environment and stimulates intellectual growth and creativity.

M.S.Patel department of civil engineering

Civil Engineering is a broad field of engineering that deals with the planning, construction, and maintenance of built environment and other infrastructure facilities and are closely related to earth, water and environment. The Department of Civil Engineering at CSPIT, CHARUSAT was established in year 2008 to impart quality education & conduct research in Civil Engineering to cater the rising needs and demands of the society. The Department has constantly been equipping itself with technological advancements of national priority and flexibly adapting to changing scenario in the fields of Civil Engineering. The Department offers B.Tech in Civil Engineering (120 Seats), M.Tech – Structural Engineering (18 Seats) and PhD programmes in various discipline of Civil Engineering. The department is also equipped with licensed software's like STAAD Pro S6,

Midas Civil, Bentley Road max, STRUDS 12.0, ESRGSR V4, GEO5, Primevera P6 & Bentley Combined.

Department of Mechanical Engineering

The CHAMOS Matrusanstha Department of Mechanical Engineering offers undergraduate programme in Bachelor of Technology in Mechanical Engineering, postgraduate programme of Master of Technology (M. Tech. CAD/CAM) and Ph.D programs in Mechanical Engineering. The department is equipped with sophisticated laboratory equipments in various areas like Surface Engineering, Tribology, Reverse Engineering, Unconventional Machining, Control & Automation, Machine Vision etc. The department is also equipped with licensed software's like LABVIEW 2009, Hyper works 11.0, Autodesk, ANSYS, MINITAB, XOR, COMSOL and ABAQUS.

Objectives of The Program

- To apply the Finite Element Method for solving basic problems related to spring analysis, stress analysis, strain, Fluid flow etc.
- To explore how to use APDL, ANSYS workbench and Abaqus tools to solve Engineering problems.
- Appropriate application of Finite Element Technique to simulate the object as per its application of usage.
- To understand pre-failure behavior of the object developed using simulation softwares.

Certificate Course on

“Finite Element Simulation” with hands on practice using software (Abaqus/CAE & ANSYS)



12th to 17th March 2018

Programme Coordinators:

Mr. Nirpex Patel

Dr. Dattatraya Subhedar

Mr. Dipal Patel

Organised by:

M. S. Patel Department of Civil Engineering &
Department of Mechanical Engineering, CSPIT,
CHARUSAT

Address for Correspondence:

M. S. Patel Department of Civil Engineering,
CSPIT, CHARUSAT Campus, Off Nadiad- Petlad
Highway 139, Changa, Gujarat 388421

Outline of Contents

- Basics of FEM
- APDL Tool
- ABAQUS Tool
- ANSYS Workbench
- Hands on practice
- CDP
- Assembly & Job Creation
- Material Properties (Non-linear)
- Multiple Functions
- 1-D, 2-D & 3-D Problems
- Meshing Effectiveness
- Symmetrical Problems
- All Types of Elements
- Quasi-static Solutions
- Interpretation of Results

COURSE REGISTRATION FEES

• CHARUSAT Students	Rs. 2000
• External Students	Rs. 2000
• CHARUSAT Faculty	Rs. 2000
• External Faculty	Rs. 2500
• Industry Person	Rs. 3000

1. Registration fees includes breakfast and course materials with registration kit.
2. Working lunch will be provided to all participants.
3. All other expenses are to be borne by the participants.
4. Certificates will be issued to all participants.
5. Registration charges are non-refundable.

6. Participants are required to make their own arrangements for lodging, boarding and travelling.
7. However, on request, the arrangement for accommodation can be made on chargeable basis.

How to Apply

The applicants are required to send completely filled in application form (photocopy may also be used) along with the registration fees so as to reach the coordinator on or before 9 March, 2018.

For Whom

Interested UG/PG students and researchers, in the field of Structural engineering, Computer Aided Structural Analysis & Design, Applied Mechanics as a prerequisite Course, can fill up the attached application form and return it to the Coordinators.

For further details

Contact

Mr. Nirpex Patel

Cell No - 8511128313

Email: nirpexpatel.cv@charusat.ac.in

Dr. Dattatraya Subhedar

Cell No - 9712624320

Email: dattatraya.me@charusat.ac.in

For Online Registration - www.cspitcivil.com

Registration Form

Six Days Certificate Course on “Finite Element Simulation” with hands on practice using software (Abaqus/CAE & ANSYS)

1. Name Mr./Ms/Prof./Dr.
2. Age years
3. Edu. Qualification (Highest).....
4. Designation
5. Organization
6. Internal/External Student.....
7. If Internal Student Specify Roll No
.....
8. Address
.....
.....
.....
.....
Phone..... Fax.....
Email.....
9. Experience in relevant area (if applicable)
Academic:.....
Industry:
10. Date :
11. Place :

Signature of Participant

Schedule - "Finite Element Simulation"						
	Monday - 12/03/2018	Tuesday - 13/03/2018	Wednesday - 14/03/2018	Thursday - 15/03/2018	Friday - 16/03/2018	Saturday - 17/03/2018
9:10 am to 11:10 am	Introduction to FEA Bar Element Mr. Nirpex Patel	Hands on ANSYS APDL Spring & Bar Element Mr. Dipal Patel	Introduction to Beam Element Dr. Dattatraya Subhedar	Hands on Abaqus/CAE Rectangular Element Mr. Nirpex Patel	Introduction to Truss Element Dr. Dattatraya Subhedar	Hands on Abaqus/CAE RC Frame - Experiment & Software Comparision Mr. Nirpex Patel
11:10 am to 12:10 pm	Lunch					
12:10 pm to 2:10 pm	FEA Basic Spring Element Dr. Dattatraya Subhedar	Introduction to CST Element Mr. Nirpex Patel	Hands on ANSYS Workbench Beam Element Dr. Dattatraya Subhedar	Experiment & Hands on ANSYS - Drag Analysis Dr. Dattatraya Subhedar	Hands on ANSYS APDL Truss Element Mr. Dipal Patel	Hands on Abaqus/CAE Earthquake Application Mr. Nirpex Patel
11:10 am to 12:10 pm	Refreshment					
2:20 pm to 4:20 pm	Hands on ANSYS APDL Spring Element Mr. Dipal Patel	Hands on Abaqus/CAE CST Element Mr. Nirpex Patel	Introduction to Rectangular Element Mr. Nirpex Patel	Experiment & Hands on Abaqus/CAE-Brinell Hardness Mr. Nirpex Patel	CDP Modelling & Hands on Abaqus/CAE Flexural Element Mr. Nirpex Patel	Hands on Abaqus/CAE Beam-Column Connections Mr. Nirpex Patel

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CHANGA – 388 421**

Chandubhai S. Patel Institute of Technology

M. S. Patel Department of Civil Engineering

Name of Event/Course :	Certificate course on “Finite Element Simulation”
Date and Time of Event :	12 th March 2018 to 17 st March 2018
Event coordinator :	Nirpex Patel, Dr. Dattatraya Subhedar & Mr. Dipal Patel
Resource person details (if any):	Nirpex Patel, Dr. Dattatraya Subhedar & Mr. Dipal Patel

Objective of the course:

- To apply the Finite Element Method for solving basic problems related to spring analysis, stress analysis, strain, Fluid flow etc.
- To explore how to use APDL, ANSYS workbench and Abaqus tools to solve Engineering problems.
- Appropriate application of Finite Element Technique to simulate the object as per its application of usage.
- To understand pre-failure behavior of the object developed using simulation softwares.

Major areas to be covered:

- Basics of FEM
- APDL Tool
- ABAQUS Tool
- ANSYS Workbench
- Hands on practice
- CDP
- Assembly & Job Creation
- Material Properties (Non-linear)

- Multiple Functions
- 1-D, 2-D & 3-D Problems
- Meshing Effectiveness
- Symmetrical Problems
- All Types of Elements
- Quasi-static Solutions
- Interpretation of Results

Course Outcome:

After successful completion of course:

- Students are able to solve the problems with the help of finite element tools
- Students are able to generate different meshing techniques
- Students are able to simulate the experimental work and also able to design various elements.

Aptitude sessions

Course Objective:

This course aims to make students able to critically evaluate various real-life situations by resorting to an analysis of key issues and factors. They should be smart enough to read between the lines and understand various language structures. This Aptitude Training helps them to demonstrate various principles involved in solving mathematical problems and thereby reducing the time taken for performing job functions.

Learning Outcomes :

On successful completion of the course the students will be able to:

- Understand the basic concepts of quantitative ability.
- Understand the basic concepts of logical reasoning skills.
- Acquire satisfactory competency in use of verbal reasoning.
- Solve campus placements aptitude papers covering Quantitative Ability, Logical Reasoning and Verbal Ability.
- Compete in various competitive exams like CAT, CMAT, GATE, GRE, GATE, UPSC, GPSC etc.

Course Structure:

Sr.No.	Topic	Duration
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Syllabus for Quantitative Aptitude

1 Competency 1: Simple equations, Ratio, Proportion, Variation, Percentages

Simple equations

Simple Equation

4 hrs

- Definition of Linear Equations
- Formation of simple equations
- Problems on Ages, Fractions and Digits
- Indeterminate system of equations
- Special cases in indeterminate system of equation

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CHAMOS Matrusanstha Department of Mechanical Engineering
M.S. Patel Department of Civil Engineering

Ratio and proportion	3 hrs
<ul style="list-style-type: none">• Definition of Ratio• Properties of Ratios• Comparison of Ratios• Problems on Ratios• Compound Ratio• Problems on Proportion, Mean proportional and Continued Proportion	
Variation	3 hrs
<ul style="list-style-type: none">• Direct variation• Inverse variation• Joint variation• Problems on Variations	
2 Competency 2: Percentages, Profit and loss, Partnership, Simple interest and Compound interest, Quadratic equations, progressions	
Percentages	4 hrs
<ul style="list-style-type: none">• Introduction• Converting a percentage into decimals• Converting a Decimal into a percentage• Percentage equivalent of fractions• Problems on percentages	
Profit And Loss	4 hrs
<ul style="list-style-type: none">• Problems on Profit and Loss percentage• Relation between Cost Price and Selling price• Discount and Marked Price• Two different articles sold at same Cost Price• Two different articles sold at same Selling Price• Gain% / Loss% on Selling Price	
Partnership	4 hrs
<ul style="list-style-type: none">• Introduction• Relation between capitals, Period of investments and Shares	
Simple Interest	3 hrs
<ul style="list-style-type: none">• Definitions	

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**Chandubhai S. Patel Institute of Technology
CHAMOS Matrusanstha Department of Mechanical Engineering
M.S. Patel Department of Civil Engineering**

- Problems on interest and amount
- Problems when rate of interest and time period are numerically equal

Compound Interest 3 hrs

- Definition and formula for amount in compound interest
- Difference between simple interest and compound interest for 2 years on the same principle and time period.

Quadratic equations 4 hrs

- General form of Quadratic equations
- Finding the roots of Quadratic equations
- Nature of the roots
- Relation between the roots
- Maximum and minimum value of Quadratic Expression

Syllabus for Reasoning

3 Competency 3

Deductions 4 hrs

- Finding the conclusions using Venn diagram method
- Finding the conclusions using syllogism method

Connectives 4 hrs

- Definition of a simple statement
- Definition of compound statement
- Finding the Implications for compound statements
- Finding the Negations for compound statements

4 Competency 4

Analytical Reasoning puzzles 3 hrs

- Problems on Linear arrangement
- Problems on Circular arrangement
- Problems on Double line-up
- Problems on Selections
- Problems on Comparisons

5 Competency 5

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Chandubhai S. Patel Institute of Technology
CHAMOS Matrusanstha Department of Mechanical Engineering
M.S. Patel Department of Civil Engineering**

Clocks 1 hr

- Finding the angle when the time is given
- Finding the time when the angle is known
- Relation between Angle, Minutes and Hours
- Exceptional cases in clocks

Calendars 3 hrs

- Definition of a Leap Year
- Finding the number of Odd days
- Framing the year code for centuries
- Finding the day of any random calendar date

Blood Relations

- Defining the various relations among the members of a family 3 hrs
- Solving Blood Relation puzzles 3 hrs
- Solving the problems on Blood Relations using symbols and notations 3 hrs

Total Hours

56 Hrs

Course Details:

Name of Resource Person: Mr. Manan Shah/ Mr. Harshil Patel, Horizon Career Solutions.

Duration: 56 hrs.

Duration of Course: February 2018- February 2019.

Coordinator:

Mr. Rugnesh Patel (ME)

Mr. Harmish Bhatt (ME)

Mr. Devang Patel (Civil)


Head of Department

M.S Patel Department of Civil Engineering

Chandubhai S. Patel Institute of Technology Charusat- Changa 388421

Phone: (+91) 2697 245081 Email: Sce.Civil@Charusat.ac.in

AUTOCAD 2017 TRAINING

In Association with Krishan CAD Center



Department of civil engineering in association with Krishna CAD Center is organizing evening training program in the department as per the following details. Interested students may register yourself with the department training co-ordinator.

Course Details :

Diploma in AutoCAD 2016 (Autodesk Product.)

- 2D Drafting Basic And Advance
- Productivity Tools Advance

Timing and Place:

4.30 to 6.30 PM

Room no 501(CL-ME Building)

Course Duration

7th September 2017 to 11th October 2017

Certification :

AutoCAD 2016 Course Completion Certificate From Autodesk

AutoCAD 2016 Grading Certificate

About the Krishna Cad Center:

Krishna CAD Center was established in 10th April,2008, with the goal of provide world class education at economical rate.

Krishna CAD Center is one of the AutoDesk authorised training center network in the world.

**For More Information:
Mr. Prakash Dabhi**

**CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
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CHANGA – 388 421**

Chandubhai S. Patel Institute of Technology

M. S. Patel Department of Civil Engineering

Name of Event/Course :	Certificate course on AutoCAD
Date and Time of Event :	7th September 2017 to 11th October 2017
Event coordinator :	Prakash Dabhi
Resource person details (if any):	Krishna CAD Center, Anand

Objective of the course:

- To impart computer aided drawing skill in students

Major areas to be covered:

Topics	Hours
Taking the AUTOCAD Tour	06
Create Basic Drawing	16
Manipulating Objects	08
Altering Objects	04
Drawing Organization and Inquiry Command	06
Annotating Drawings	04
Total	44

Course Outcome:

After successful completion of course:

- Students will be able use Computer Aided Drawing to prepare building plans using AUTOCAD software.

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Faculty of Technology & Engineering
Chandubhai S. Patel Institute of Technology

Red Hat System Administration

A. Objective of the Course:

The main objectives of the course are

- Understand and use essential tools for handling files, directories, command-line environments, and documentation
- Create simple shell scripts
- Operate running systems, including booting into different run levels, identifying processes, starting and stopping virtual machines, and controlling services
- Configure local storage using partitions and logical volumes
- Create and configure file systems and file system attributes, such as permissions, encryption, access control lists, and network file systems
- Deploy, configure, and maintain systems, including software installation, update, and core services
- Manage users and groups
- Manage security, including basic firewall and SELinux configuration
- Perform basic container management
- It is important for student's professional development.

B. Outline of the Course:

Sr. No.	Title of the Unit	Minimum Number of Hours
1	Managing files from the command line	04
2	Getting help in Red Hat Enterprise Linux	05
3	Creating, Viewing and Edition Text Files	04
4	Managing Local Linux Users and Group	04
5	Monitoring and Managing Linux Process	04
6	Configuring and Securing OpenSSH service	04
7	Analyzing storage log and managing Linux Networking	06
8	Scheduling Future Linux Tasks	03
9	Controlling Access to Files with Access Control Lists	03
10	Managing SELinux Security	03

Total hours: 40

Page 1 of 2

C. Detail Syllabus

1	Managing files from the command line	04 Hours
	The linux file hierarchy and practice, locating file and directories, managing files through command line, path name expansion	
2	Getting help in Red Hat Enterprise Linux	05 Hours
	Man,pinfo command and practice, viewing and controlling package, creating and viewing SoS report	
3	Creating, Viewing and Edition Text Files	04 Hours
4	Managing Local Linux Users and Group	04 Hours
5	Monitoring and Managing Linux Process	04 Hours
	Processes, controlling job, background and foreground process, monitoring and managing process	
6	Configuring and Securing OpenSSH service	04 Hours
	Accessing the remote command line with SSH, SSH key based authentication, SSH service , SSH key based authentication	
7	Analyzing storage log and managing Linux Networking	06 Hours
	System log architecture, managing and controlling syslog files, System journal	
8	Scheduling Future Linux Tasks	03 Hours
	Scheduling one-time tasks with at, recurring and scheduling job with cron, managing temporary files	
9	Controlling Access to Files with Access Control Lists	03 Hours
	POSIX access control list, interpret ACLs, securing files with ACLs, grant and limit access	
10	Managing SELinux Security	03 Hours
	Managing and monitoring SELinux, SELinux modes, troubleshooting SELinux	

D. Students Learning Outcomes:

- Enables you to compete in real-world tasks using all these technologies. These certifications enable the candidates with the skills of implementing and configuring the technologies in question.
- Red Hat certification offers administration skills, developer knowledge of specialized technologies that lead your path to success.
- The Red Hat Certified Engineer (RHCE) certification program creates certified skilled IT professionals, it is also one of the leading certification programs for Linux skills.

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
Faculty of Technology & Engineering
Chandubhai S. Patel Institute of Technology

CCNA Routing and Switching: Introduction to Networks

A. Objective of the Course:

The main objectives of the course are

- Work with routers, switches and wireless devices to configure and troubleshoot VLANs, Wireless LANs and Inter-VLAN routing.
- Develop critical thinking and problem-solving skills using real equipment and Cisco Packet Tracer.
- Configure and troubleshoot redundancy on a switched network using STP and Ether Channel.
- Explain how to support available and reliable networks using dynamic addressing and first-hop redundancy protocols.
- Create and configure file systems and file system attributes, such as permissions, encryption, access control lists, and network file systems
- Deploy, configure, and maintain systems, including software installation, update, and core services
- Manage users and groups
- Manage security, including basic firewall and SELinux configuration
- Perform basic container management
- It is important for student's professional development.

B. Outline of the Course:

Sr. No.	Title of the Unit	Minimum Number of Hours
1	Explore the Network	04
2	Configure a Network Operating System	05
3	Network Protocols and Communications	04
4	Network Access	04
5	Ethernet	04
6	Network Layer	04
7	IP Addressing	03
8	Subnetting IP Networks	03
9	Transport Layer	03

10	Application Layer	03
11	Build a Small Network	03

Total hours: 40

C. Detail Syllabus

1	Explore the Network	04 Hours
	Globally connected, LANs, WANs and the Internet, The Network as a platform, the changing network environment	
2	Configure a Network Operating System	05 Hours
	Introduction, IOS Bootcamp, Basic Device Configuration, Address Schemes	
3	Network Protocols and Communications	04 Hours
	Rules of Communication, Network Protocols and Standards, Data transfer in the network	
4	Network Access	04 Hours
	Physical layer protocols, Network Media, Data Link Layer Protocols, Media Access Control.	
5	Ethernet	04 Hours
	Ethernet Protocol, LAN Switches, Address Resolution Protocol	
6	Network Layer	04 Hours
	Network Layer Protocols, Routing, Routers, Configure a Cisco Router.	
7	IP Addressing	06 Hours
	IPv4 Network Addresses, IPv6 Network Addresses, Connectivity Verification.	
8	Subnetting IP Networks	03 Hours
	Subnetting an IPv4 Network, Addressing Schemes, Design Considerations for IPv6.	
9	Transport Layer	03 Hours
	Transport Layer Protocols, TCP and UDP.	
10	Application Layer	03 Hours
	Application Layer Protocols, Well-Known Application Layer Protocols and Services.	
11	Build a Small Network	03 Hours
	Network Design, Network Security, Basic Network Performance, Network Troubleshooting	

D. Students Learning Outcomes:

- Students will be able to build simple LANs
- Perform basic configurations for routers and switches, and
- Implement IP addressing schemes.

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF TECHNOLOGY AND ENGINEERING

CHANDUBHAI S. PATEL INSTITUTE OF TECHNOLOGY

- ❖ Career Development and Placement cell introduce the course on “**Quantitative Aptitude and Logical Reasoning**” as a value added course. It is non-credit course. The objective of the course is to enhance the logical and soft skills of the students.
- ❖ Date and Time : 8th July, 2017 To 30th September, 2017 (Every Saturday – Except third Saturday and declare holiday)
- ❖ About the course :

1. General Aptitude

- 1.1 Percentage
- 1.2 Profit Loss Discount
- 1.3 Time Speed Distance
- 1.4 Time & Work
- 1.5 Ratio Proportion
- 1.6 Allegation & Mixture
- 1.7 Permutations & Contribution
- 1.8 Probability
- 1.9 Data Interpretation

2. Logical Skills

- 2.1 Blood Relation
- 2.2 Number & Alpha Series
- 2.3 Coding – Decoding CSPIT, CHARUSAT

3. Soft Skill

- 3.1 Resume Building
- 3.2 Interview Skill, GD Skill
- 3.3 Communication

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
Faculty of Technology & Engineering
Chandubhai S. Patel Institute of Technology

Quantitative Aptitude and Logical Reasoning

A. Objective of the Course:

The main objectives of the course are

- The objective of the course is to enhance the candidate's aptitude. It also helps the students to find their weakness and strength.
- The students will be able to understand the importance of communication skills and this course will help them in achieving the expertise in communication skills.
- It is important for student's professional development.

B. Outline of the Course:

Sr. No.	Title of the Unit	Minimum Number of Hours
1	General Aptitude	20
2	Logical Skills	7
3	Soft Skills	5

Total hours: 32

C. Detail Syllabus

1	General Aptitude	20 Hours
1.1	Percentage	
1.2	Profit Loss Discount	
1.3	Time Speed Distance	
1.4	Time & Work	
1.5	Ratio Proportion	
1.6	Allegation & Mixtures	
1.7	Permutations & Combination	

1.8	Probability	
1.9	Data Interpretation	
2	Logical Skills	7 Hours
2.1	Blood Relations	
2.2	Number & Alpha Series	
2.3	Coding-Decoding CSPIT, CHARUSAT	
3	Soft Skills	5 Hours
3.1	Resume Building	
3.2	Interview skill, GD Skill	
3.3	Communication	

D. Instructional Method and Pedagogy:

- At the start of course, the course delivery pattern, prerequisite of the subject will be discussed.
- Lectures will be conducted with the aid of multi-media projector, black board, OHP and or Microsoft Teams.
- Attendance is compulsory.
- Assignments based on course content will be given to the students at the end of each unit/topic and will be evaluated at regular interval.

E. Students Learning Outcomes:

- The Students must at the end of the course be able to: Understand the concept communication skill and soft skill.
- Students can solve the complex problem of Quantitative aptitude and logical reasoning.

F. Recommended Study Material:

Reference Books:

1. Quantitative Aptitude by Dr. R S Aggarwal.

APTITUDE BUILDING AND SOFT SKILL DEVELOPMENT

**JANUARY- MARCH
2018**



**Aptitude Building session By
Mr. Himanshu Thakkar
Director - Expert Educare Pvt Ltd.**

Registration Link:

<https://forms.gle/uDZtM33rMZKkFT6a6>



**Soft Skill Session By
Dr. Kamal Chakravartty
Head, HRDC, CHARUSAT**

Organizer:

**Career Development and Placement Cell (CDPC),
Charotar University of Science and
Technology (CHARUSAT), Changa**

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

DEVANG PATEL INSTITUTE OF ADVANCE TECHNOLOGY AND RESEARCH

Aptitude Building and Soft Skill Development (2017-18)

A. Objective of the Course

The main objective of Course are:

- The objective of the course is to enhance the candidates aptitude. It also helps the students to find their weakness and strength.
- The students will be able to understand the importance of communication skills and this course will help them to achieve the expertise in communication skills.
- It is important for the students' professional development.

B. Outline of the course:

Sr. No	Title of the Unit	No. of Hours
1	Aptitude Building	30
2	Skill Mapping Session Schedule	16

C. Detailed Syllabus

Aptitude Building		
Sr. No	Topic Name	No of Hours Required
1	Ratio and proportion & partnership	2
2	Percentage & Profit and loss	2
3	Progression	2
4	Time and work	2

5	Time and distance	2
6	Permutation and combination	2
7	Set theory	2
8	Fundamentals and applications of area and volume	2
9	Reasoning on Venn Diagram	2
10	Analytical Reasoning	2
11	Visual Reasoning	2
12	Reasoning on situation handling, coding - decoding, direction senses	2
13	Reasoning on numbers and alphabets	2
14	Sample practice questions and explanation about approach with real examples asked in placement test of major corporates / recruiters	2
15	Dos and Don'ts in Interview and discussion on frequently asked questions in interview	2
Skill Mapping Session Schedule		
16	Communication Skill /Presentation Skill	4
17	Teamwork Skill	2
18	Problem Solving Skill	2
19	Leadership Skill	2
20	Skill To work under pressure	2
21	Enterprise and Entrepreneurial Skill	2
22	Analytical Skill	2
Total Hours		46

D. Instructional Method and Pedagogy

- At the start of course, the course delivery pattern , pre-requisite of the subject will be discussed.
- Lectures will be conducted with the aid of multi- media projector , black board , OHP and Microsoft Teams
- Attendance is Compulsory
- Assignments based on course content will be given to the students at the end of each topic

E. Students Learning Outcomes.

- The students must at the end of course be able to Understand the concept communication skills and soft skills
- Students can solve the complex problem of Quantitative aptitude and Logical Reasoning.

F. Recommended Study Material

Reference Books

1. Quantitative Aptitude by R.S. Aggrawal.

Faculty of Pharmacy

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

Ramanbhai Patel College of Pharmacy

Packaging Material and Technology II

Hours: 30

Objectives of the Course

To make students familiar with the manufacturing and application of packages manufactured from glass and metals. The course is also set to provide preliminary information about need, principle and general methodologies adopted to carry out packaging compatibility studies.

Student Learning Outcomes/Objectives

At the end of the course, the student would be able to understand the application aspects of glass and metals in packaging. They should be expected to realize the selection criteria for adhesives and rubber for various applications. The students should also be able to understand product – package compatibility and methodology to evolve those parameters.

Outline of the Course

No.	Unit
1	Testing of Packing Materials
2	Testing of Packed containers
3	Compatibility studies on Packing

Detailed Syllabus

Sr. No.	Units	References
1	Compatibility studies on Packing Introduction to stability approaches for determination of shelf life studies for product in different types of packs, Impact of seals and closures on stability of product, Brief of compatibility studies including Analytical techniques in compatibility studies through a typical example.	1, 2
2	Glass and Metals as Packaging Materials Types of materials, general methods of manufacturing, their physico chemical properties, characteristics, quality control tests and applications i. Glass ii. Metal: Tin, Aluminum, Stainless steel iii. Rubbers and Elastomers: Properties, Types, Agents used for its manufacturing. iv. Adhesives: theory and principles of adhesion, factors affecting bond strength, different types of adhesives, adhesive tapes Manufacturing considerations, brief of various methods for manufacturing packages from following types and applications: <i>Glass containers</i> <i>Metal containers</i>	1, 2, 3, 4, 5
3	<i>Printing of Packages</i> Introduction to Various Methods of Printing and Applications	1, 2, 3, 4 3, 6

Recommended study materials

- 1 Pharmaceutial Packaging Technology, Edited by D.A.Dean, E.R.Evans, I.H.Hall, Taylor and Fransis.
- 2 Encyclopedia Of Packaging Technology, Edited By Kit L. Yam, 3rd Edition, A John Wiley & Sons, Inc., Publication.
- 3 Handbook of Packaging Technology, by Eiri Board (Engineers India Research Institute).
- 4 Global Legislation for Food Packaging Materials, edited by Rinus Rijk and Rob Veraart, Wiley.

- 5 Packaging Closures and Sealing Systems, Edited by Nigel Theobald and Beinda Winder, Blackwell Publishing, CRC Press.

- 6 Fundamentals of Packaging Technology, Saroka Walter, Institute of Packaging Professionals

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

Ramanbhai Patel College of Pharmacy

Packaging Material and Technology I

Hours: 30

Objectives of the Course

The course is designed to make students familiar with cellulosic and plastic packaging material for packaging of various types of goods. It is also expected to impart the knowledge about technology involved in manufacturing those packaging material as well prototype packages. The subject emphasizes the fundamental requirements of ideal packaging material & characteristics of packaging materials available in the market.

Student Learning Outcomes/Objectives

At the end of the course, the student will be able to understand the fundamental concepts of packaging which further will be helpful in understanding other advanced aspects of packaging applications in various fields.

Outline of the Course:

Sr No.	Unit
1	Introduction
2	Packaging Materials
3	Packaging Technology

Detailed Syllabus

Sr. No	Units	References
1	Introduction Definition, introduction to packaging, role of packaging, components of packaging, Overview of the Packaging Development of Packaging and various aspects of it, Evaluation of packages and Physicochemical characteristics	3, 4, 7
2	Cellulosic and Plastic Packaging Materials Types of materials, general methods of manufacturing, their physico chemical properties, characteristics, quality control tests and applications i. Plastics: high-density polyethylene, low-density polyethylene, linear low-density polyethylene, Polypropylene, Polystyrene, PVC, nylon, plastic woven sacks and Polycarbonate, Biodegradable plastics, Considerations of Polyethylene in Drug Packaging. ii. Cellulose Materials: Manufacturing of paper and boards, specialty paper, corrugated boards, different types of cartons, sacks, and composite containers.	1, 2, 3, 4, 5,6,7
3	Manufacturing considerations and brief of various methods for manufacturing packages from following types:	1, 2, 3, 4, 5,6,7
	<i>i. Plastic containers</i> <i>ii. Closures and Caps</i> <i>iii. Paper and paperboard</i>	

Recommended Study material

1. Encyclopedia of Pharmaceutical Technology Vol.1-3, Swarbric, J and Bolyln, J. C., Marcel Dekker, Inc., New York.
2. United States Pharmacopoeia-27(NF-22), 2004, United State of Pharmacoppeal convention, INC, 12601 Twinbrook Parkway, Rockville, MD 20852.
3. Pharmaceutical Packaging Technology, Dean, D. A. Evans, E. R. and Hall, j. H., Taylor and Francis, London.
4. Packaging of Pharmaceutical & Healthcare products, H. Lockhart, F. A. Paine, Champman and Hall, London.
5. Fundamentals of Packaging Technology, Saroka Walter, Institute of Packaging Professionals

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
Ramanbhai Patel College of Pharmacy
Packaging of Food Products

Hours:30

Objectives of the Course

The course is considers food article as a prototype FMCG products. The course is structured to disseminate the findings with respect to the fundamentals of food preservation and role of Packaging Technology applied to Food Materials. The course also aims to provide in-depth information on designing and selection of packages for different types of food products while keeping in mind the regulations for the same.

Student Learning Outcomes/Objectives

At the end of the course, the student would be able to understand the fundamental concepts of food preservation and role of package material for the same. It is also expected that the student would posses sufficient knowledge about the novel trends for the packaging of food material.

Outline of the Course

No.	Unit
1	Food Deterioration , Food Preservation and Determination of Shelf Life
4	Food in different Packaging
5	Packaging of Dairy Products and Current Legislations related to Food Packaging in India

Detailed Syllabus

Sr.No	Units	References
1	Food Deterioration and Methods of Preservation	1, 2, 4
	Reasons of food deterioration, Food preservation methods (high and low temperatures, drying and water activity control, chemical preservation, fermentation and other techniques)	
	Packaged Product Quality and Shelf Life	1, 2
	Introduction, Chemical/biochemical processes, Microbiological processes, Physical and physico-chemical processes, Migration from packaging to foods, indices of failure.	
2	Food in different Packaging	1, 4, 6, 10
	i. <i>Metal Packaging</i> : Processing of food and drinks in metal packages, Shelf life of canned foods. ii. <i>Glass containers</i> : Attributes of food packaged in glass containers, Thermal processing of glass packaged foods, Glass pack design and specification. iii. <i>Plastics Packaging</i> : Types and use of plastics in food packaging, Food contact and barrier properties iv. <i>Paper and Paper board packaging</i> : Introduction, functional properties or paper and paperboard	
3	Introduction to Active Packaging	1, 9
	Packaging of Dairy products	2, 5
	Classification of dairy products, requirements of packing and packages for different types of products.	
	Legislation	3
	Introduction to Prevention of food adulteration act, Food Purchase Order.	

Recommended study materials:

- 1 Food and Beverage Packaging Technology, Second Edition, Edited by Richard Coles, Mark Kirwan, A John Wiley & Sons, Ltd., Publication.
- 2 Food Packaging and Shelf Life, A Practical Guide, edited by Gordon L. Robertson, CRC Press, Taylor and Francis Group.
- 3 Global Legislation for Food Packaging Materials, edited by Rinus Rijk and Rob Veraart, Wiley.
- 4 Plastic Packaging Materials for Food, Edited by O.G.Piringer and A.L.Baner, Wiley.
- 5 Hand Book Of Milk Processing Dairy Products And Packaging Technology, by Eiri Board (Engineers India Research Institute).
- 6 Handbook of Packaging Technology, by Eiri Board (Engineers India Research Institute).
- 7 Thermal Processing of Packed Food, Donald Holdsworth, Ricardo Simpson, Springer.
- 8 Understanding Consumers of Food Products, Edited by Lynn Frewer and Hans Van Trijp, CRC Press, Woodhead Publishing Limited, England.
- 9 Smart Packaging Technologies for fast moving consumer goods, Editor Joseph Kerry and Paul Butler, Wiley.
- 10 Hand Book of Food Packaging Technology, by Eiri Board (Engineers India Research Institute).
- 11 Packaging Closures and Sealing Systems, Edited by Nigel Theobald and Beinda Winder, Blackwell Publishing, CRC Press.

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
Ramanbhai Patel College of Pharmacy
Packaging of Pharmaceuticals

Hours: 30

Objectives of the Course

The course is structured to familiarize the students with different types of packaging materials used for various types of pharmaceuticals and cosmetic products. The subject is also aimed to provide the students an insight in current regulatory processes with respect to Pharmaceutical product & packaging thereof.

Student Learning Outcomes/Objectives

At the end of the course, the student will be able to understand the packaging of different pharmaceutical and cosmetic products & regulations concerning the same.

Outline of the Course

Sr No.	Unit
1	Packaging Solid dosage forms
2	Sterilization and Sterile Products and Packaging Aerosol Packaging
3	Packaging of Liquid, SemiSolid Dosage Form and Medicinal Devices

Transaction of the course would be through various pedagogy tools.

Detailed Syllabus

Sr.No	Units	References
1	Introduction to Pharmaceutical Packaging	2,3, 8, 10
	Packaging Solid dosage forms	3, 5, 6,9
2	Sterilization and Sterile Products Packaging	5, 8
	Aerosol Packaging	6, 7
3	Packaging of Liquid and Semisolid Dosage Forms	1, 3, 4, 5
	Types of containers, filling and packaging technology.	
	Medical devices packaging	8
	Legislation	11
	Introduction to following Acts and the area of functioning: ISO standards, Weight and measures (Packaged Commodities) Act, Indian Copyright Act.	

Recommended Study material

1. Encyclopedia of Pharmaceutical Technology Vol.1-3, Swarbric, J and Bolyln, J. C., Marcel Dekker, Inc., New York.
2. United States Pharmacopoeia-27(NF-22), 2004, United State of Pharmacopoeal convention, INC, 12601 Twinbrook Parkway, Rockville, MD 20852.
3. Pharmaceutical Packaging Technology, Dean, D. A. Evans, E. R. and Hall, j. H., Taylor and Francis, London.
4. Packaging of Pharmaceutical & Healthcare products, H. Lockhart, F. A. Paine, Champman and Hall, London.
5. Packaging of Pharmaceuticals, C.F. Ross, Newnes-Butterworth.
6. The Theory and Practice of Industrial pharmacy, Lachmann, L., Lieberman, H.A. & Kanig, J.I., Lea and Fibiger, CBS Publishers and Distributors, New Delhi.

7. Modern Pharmaceutics, Banker, G.S. & Rhodes, C.T., Marcel Dekker Inc. New York and Basel.
8. Pharmaceutical Packaging Handbook, Edward J. Bauer, Informa Healthcare.
9. Smart Packaging Technologies for fast moving consumer goods, Editor Joseph Kerry and Paul Butler, Wiley
10. Handbook of Packaging Technology, by Eiri Board (Engineers India Research Institute).
11. Pharmaceutical Jurisprudence, N.K.Jain, Vallabh Prakashan

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
Ramanbhai Patel College of Pharmacy
FORMULATION DESIGN AND EVALUATION- HAIR, DENTAL AND BABY CARE
PRODUCTS

Hours: 30

Objectives of the Course

This course is designed to provide in depth knowledge regarding the designing, formulation, and manufacturing, quality control, packaging and labeling of various hair care and dental products.

This course also addresses the formulation aspects related to Baby care products.

Student Learning Outcomes/ objectives

At the end of the course, the student will be able to understand the formulation and development of various hair care and dental care products. The students will also understand the differences in formulation of products for adults and babies.

Outline of the Course

No.	Unit
1	Hair care products
2	Dental care products
3	Baby care products

Detailed Syllabus

Sr. No.	Units
1	<p>Hair care products</p> <p>Anatomy and physiology of hair, classification of various hair care products. Formulation, evaluation, packaging and labeling of various hair care products like shampoo, conditioner, hair tonics, hair wave sets, lacquer, rinses, hair grooming preparation, hair bleaches and colorants, depillatories and depilatories preparations.</p>
2	<p>Dental care products</p> <p>Anatomy and physiology of teeth, classification of various teeth care products. Formulation, evaluation, packaging and labeling of various teeth care products like tooth paste, tooth gel, tooth powder, mouth washes and teeth whitening agents.</p>
3	<p>Baby care products</p> <p>Introduction, difference in adult and baby formulations, classification of various baby care products. Formulation, evaluation, packaging and labeling of various baby care products.</p>

Reference Books

1. Cosmetics Formulation Manufacturing & Quality Control, P.P. Sharma, 4th Ed., Vandana Publications.
2. Harry's Cosmetology, Radolph Harry, 8th edition, Chemical Publishing Company.
3. Perfumes, Soaps, Detergents and Cosmetics, S.C. Bhatia, 1st edition, CBS publishers.
4. Poucher's Perfumes, Cosmetics and Soaps, H. Butler, 10th edition, Kluwer Academic Publishers.
5. Handbook of Cosmetic Science and Technology, Andre Barel, Marc Paye, Howard I. Maibach, CRC Press.
6. Cosmetic technology, Nanda S, Nanda A, Khar RK., Birla Publications Pvt. Ltd.
7. Cosmetics: Science and Technology, Balsam S.M. and Sagarin Edward, 2nd Ed, Wiley Interscience.

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
Ramanbhai Patel College of Pharmacy
FORMULATION DESIGN AND EVALUATION- SKIN AND NAIL CARE PRODUCTS

Hours: 30

Objectives of the Course

This course aims to provide comprehensive knowledge regarding the designing, formulation, and manufacturing, quality control, packaging and labeling of various skin care products. This course also addresses the formulation challenges including their remedies.

Student Learning Outcomes/Objectives

At the end of the course, the student will be able to understand the fundamental concepts of formulation and product development of various skin care and nail care products.

Outline of the Course:

Sr No.	Unit
1	Skin care products -I
2	Skin care products -II
3	Nail Care Products

Detailed Syllabus

Sr. No	Units
1	<p>Skin care products -I</p> <p>Anatomy and physiology of skin, classification of various skin care products. Formulation, evaluation, packaging and labeling of various skin care products like skin creams and lotions, suntan and anti sunburn, skin bleaching, skin tonics, anti aging cream.</p>
2	<p>Skin care products -II</p> <p>Formulation, evaluation, packaging and labeling of various skin care products like face powder, body powders, lipstick, lip rouge, lip glosses, eye mascara, eye shadow, eyebrow cosmetics, anti perspirants and deodorants and bath preparations.</p>
3	<p>Nail Care Products</p> <p>Anatomy and physiology of nail, classification of various nail care products. Formulation, evaluation, packaging and labeling of various nail care products like cuticle cream, oil, nail bleaches, nail stain removers, nail lacquers and removers.</p>

Reference Books

1. Cosmetics Formulation Manufacturing & Quality Control, P.P.Sharma, 4th Ed., Vandana Publications.
2. Harry's Cosmeticology, Radolph Harry, 8th edition, Chemical Publishing Company.
3. Perfumes, Soaps, Detergents and Cosmetics, S.C. Bhatia, 1st edition, CBS publishers.
4. Poucher's Perfumes, Cosmetics and Soaps, H. Butler, 10th edition, Kluwer Academic Publishers.
5. Handbook of Cosmetic Science and Technology, Andre Barel, Marc Paye, Howard I. Maibach, CRC Press.
6. Cosmetic technology, Nanda S, Nanda A, Khar RK., Birla Publications Pvt. Ltd.
7. Cosmetics: Science and Technology, Balsam S.M. and Sagarin Edward, 2nd Ed, Wiley Interscience.

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
Ramanbhai Patel College of Pharmacy
REGULATORY ASPECTS IN COSMETICS INDUSTRY

Hours:30

Objectives of the Course

The course is prepared with the aim to familiarize the students with the principles of regulatory requirements in context of cosmetic industry.

Student Learning Outcomes/ objectives

At the end of the course, the student would be able to understand the fundamental concepts and essential component to maintain the quality of cosmetic products and meet the regulatory guidelines.

Outline of the Course

No.	Unit
1	Regulation of cosmetics in India, Provisions applicable to cosmetics in Drug & Cosmetic Act 1940
2	An introductory study of acts/ laws of that affect cosmetic product design, manufacture and distribution in India((with latest amendments)
3	Cosmetic advertising & labeling claims, Global regulatory issues in cosmetic industry

Detailed Syllabus

Sr.No	Units
1	Regulation of cosmetics in India, Provisions applicable to cosmetics in Drug & Cosmetic Act 1940 and Rules 1945
2	An introductory study of acts/ laws of that affect cosmetic product design, manufacture and distribution in India (with latest amendments) <ul style="list-style-type: none">• Environmental protection act• Factory act• Consumer protection act• Patent act with Patent Rules
3	Cosmetic advertising & labeling claims, Global regulatory issues in cosmetic industry

Reference Books

1. Cosmetics Formulation Manufacturing & Quality Control, P.P. Sharma, 4th Ed., Vandana Publications
2. Cosmetic Regulation in a Competitive Environment, Norman F. Estrin, James M. Akerson, Marcel Dekker
3. Consumer Testing and Evaluation of Personal Care Products, Howard R. Moskowitz, Marcel Dekker Incorporated
4. Global Regulatory Issues for the Cosmetics Industry, C.E. Betton, Elsevier Science.
5. The Cosmetic Industry: Scientific and Regulatory Foundations, Norman F. Estrin, Marcel Dekker Incorporated.
6. Drugs and Cosmetics act 1940 and Rules 1945
7. Environmental Protection act
8. Factory Act
9. Patent act 2005

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
Ramanbhai Patel College of Pharmacy
ADVANCED COSMETIC TECHNIQUES

Hours: 30

Objectives of the Course

This course aims to provide in depth knowledge regarding the designing, formulation, and manufacturing, quality control, packaging and labeling of novel cosmetic products like herbal cosmetics, cosmeceuticals, and nutricosmetics.

Student Learning Outcomes/Objectives At the end of the course, the student would be able to understand the formulation and development of newer approaches in cosmetic technology.

Outline of the Course

Sr No.	Unit
1	Novel cosmetic delivery systems
2	Cosmeceuticals, Nutricosmetics and Herbal Cosmetics
3	Introduction of Laser Technology, Aerosol technology & Cosmetic Contact Lenses

Detailed Syllabus

Sr.No	Units
1	Novel cosmetic delivery systems Approaches of formulation, quality control, packaging and labeling of various novel cosmetic delivery system like Vesicular system, Particulate system, Colloidal system, Iontophoresis, Cosmetic patches and Microneedles
2	Cosmeceuticals, Nutricosmetics and Herbal Cosmetics Introduction, Formulation aspects and Applications of various Cosmeceuticals, Nutricosmetics and Herbal cosmetics
3	Introduction of Laser Technology, Aerosol technology & Cosmetic Contact Lenses

Reference Books

1. Botanicals: A Phytocosmetic Desk Reference
2. Cosmetic nanotechnology: polymers and colloids in cosmetics, Sarah E. Morgan, Kathleen O. Havelka, Robert Y. Lochhead, American Chemical Society.
3. Novel Cosmetic Delivery Systems, Shlomo Magdassi, Elka Touitou, Marcel Dekker
4. Enhancement in Drug Delivery, Elka Touitou, Brian W. Barry, CRC Press.
5. Delivery System Handbook for Personal Care and Cosmetic Products, MeyerRosen, Elsevier Science.
6. Cosmeceuticals and Active Cosmetics: Drugs vs. Cosmetics (Cosmetic Science and Technology) Peter Elsner, Howard I. Maibach, 2nd edition, CRS Press.
7. Controlled and Novel Drug Delivery Systems by N.K.Jain, CBS Publishers & Distributors.
8. Targeted And Controlled Drug Delivery: Novel Carrier Systems by Vyas S P, Khar R K, CBS Publishers & Distributors
9. The Theory and Practice of Industrial Pharmacy, Lachman and Lieberman, 3rd Edition, Lea &Febiger Publishers.

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

Ramanbhai Patel College of Pharmacy

Principles of Pharmacovigilance

Hours: 30

Course outcome:

- Students would be able to discuss the theory and background of pharmacovigilance, as well as identify major terminology in this arena.
- Students would be able to explain methods used to identify safety signals and statistical effects
- Students would be able to cite requirements which are necessary to develop pharmacovigilance programme in an organization.

Outline of Syllabus

Sr No	Units
1.	Introduction to Adverse Drug Reactions and Pharmacovigilance
2.	Pharmacovigilance Methods
3.	Setup of Pharmacovigilance Programme

Detailed Syllabus

Sr No.	Units
1.	<p>Introduction to Adverse Drug Reactions and Pharmacovigilance</p> <p>Definitions and classification of ADRs</p> <ul style="list-style-type: none">• Detection and reporting• Causality assessment• Severity and seriousness assessment• Predictability and preventability assessment• Management of adverse drug reactions <p>Introduction to pharmacovigilance</p> <ul style="list-style-type: none">• History and development of pharmacovigilance• Importance of safety monitoring / Why pharmacovigilance <p>National and international scenario</p> <ul style="list-style-type: none">• Pharmacovigilance in India• Pharmacovigilance global perspective• WHO international drug monitoring programme <p>Basic terminologies used in pharmacovigilance</p> <ul style="list-style-type: none">• Terminologies of adverse medication related events• Regulatory terminologies• Drug dictionaries and coding in Pharmacovigilance
2.	<p>Pharmacovigilance Methods</p> <p>Different Pharmacoepidemiological methods</p> <ul style="list-style-type: none">• Passive surveillance – Spontaneous reports and case series• Active surveillance – Sentinel sites, drug event monitoring and registries• Comparative observational studies – Cross sectional study, case control study and cohort study

	<ul style="list-style-type: none"> • Targeted clinical investigations <p>Adverse drug reaction reporting</p> <ul style="list-style-type: none"> • Introduction to reporting systems • Spontaneous reporting system • Reporting to regulatory authorities • Guidelines for reporting ADRs in biomedical literature <p>Signal detection, Risk assessment and management</p> <ul style="list-style-type: none"> • Identification of new adverse drug reactions • Signal detection in pre and post marketing period • Prioritization and risk assessment • Risk management <p>Drug and Disease Classification</p>
3.	Setup of Pharmacovigilance Programme
	<ul style="list-style-type: none"> • Hospital and Industrial perspective of Pharmacovigilance setup • SOPs-Types, Designing, Maintenance and Training • Roles and responsibilities of CROs, Market Authorisation Holders

References

1. Textbook of Pharmacovigilance: S K Gupta, Jaypee Brothers, Medical Publishers.
2. Practical Drug Safety from A to Z by Barton Cobert, Pierre Biron, Jones and Bartlett Publishers.
3. Mann's Pharmacovigilance: Elizabeth B. Andrews, Nicholas, Wiley Publishers.
4. Stephens' Detection of New Adverse Drug Reactions: John Talbot, Patrick Walle, Wiley Publishers.
5. An Introduction to Pharmacovigilance: Patrick Waller, Wiley Publishers.
6. Cobert's Manual of Drug Safety and Pharmacovigilance: Barton Cobert, Jones & Bartlett Publishers.
7. Textbook of Pharmacoepidemiology edited by Brian L. Strom, Stephen E Kimmel, Sean Hennessy, Wiley Publishers.
8. A Textbook of Clinical Pharmacy Practice -Essential Concepts and Skills: G. Parthasarathi, Karin Nyfort Hansen, Milap C. Nahat.
9. National Formulary of India
10. A Text Book of Medicine by Yashpal Munjal
11. Text book of Pharmacovigilance: concept and practice by GP Mohanta and PK Manna

Faculty of Computer Science and Applications

**Smt. Chandaben Mohanbhai Patel Institute of
Computer Applications**
(A Constituent Institute of CHARUSAT)



organizes

**A Training Program
on**

Student Development Program
10th Jul, 2017 to 28th Oct, 2017



**Charotar University of
Science and Technology**
Changa - 388421
Dist.: Anand, Gujarat

Overview of Program and its content

We have organized a “Student Development Program” for MCA regular Semester 5, MCA Lateral semester – 3 and MSc. IT semester -3 students. Members of T&P are going to deliver sessions for improving their basics of object oriented, database technologies and aptitude skills from 10th Jul, 2017 to 28th Oct, 2017. Overview of the Content Covered

Numerical Aptitude: Numbers & Algebra |, Percentage, Average, Speed and Distance, Ratio and Proportion , Permutation and Combination , Object Oriented concepts and database fundamentals

Targeted Audience: MCA L Semester III,

M.Sc. (IT) Semester III,

MCA Semester – V

Resource Persons

Dr. Jaimin N Undavia

Dr. Chirag Patel

Mr. Nilay Ganatra

Ms. Shreya Mahida

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
Faculty of Computer Science & Applications
Smt. Chandaben Mohanbhai Patel Institute of Computer Applications
Student Development Program

A. Objective of the Course:

The main objectives of the course are

- The objective of the course is to enhance the candidate's aptitude. It also helps the students to find their weakness and strength.
- The students will be able to understand the importance of communication skills and this course will help them in achieving the expertise in communication skills.
- It is important for student's professional development.

B. Outline of the Course:

Sr. No.	Title of the Unit	Minimum Number of Hours
1	General Aptitude	22
2	Domain Fundamental	6
3	Soft Skills	4

Total hours: 32

C. Detail Syllabus

1	General Aptitude	22 Hours
1.1	Percentage	
1.2	Profit Loss Discount	
1.3	Time Speed Distance	
1.4	Time & Work	
1.5	Ratio Proportion	
1.6	Allegation & Mixtures	
1.7	Permutations & Combination	
1.8	Probability	

1.9	Data Interpretation	
2	Domain Fundamental	6 Hours
2.1	Object Oriented Concepts	
2.2	Database Fundamentals	
3	Soft Skills	4 Hours
3.1	Resume Building	
3.2	Interview skill, GD Skill	
3.3	Communication	

D. Instructional Method and Pedagogy:

- At the start of course, the course delivery pattern, prerequisite of the subject will be discussed.
- Lectures will be conducted with the aid of multi-media projector, black board, OHP and or Microsoft Teams.
- Attendance is compulsory.
- Assignments based on course content will be given to the students at the end of each unit/topic and will be evaluated at regular interval.

E. Students Learning Outcomes:

- The Students must at the end of the course be able to: Understand the concept of communication skill and soft skill.
- Students can solve the complex problem of Quantitative aptitude and logical reasoning.
- Students will be able to understand the domain fundamental course in depth.

F. Recommended Study Material:

Reference Books:

1. Quantitative Aptitude by Dr. R S Aggarwal.
2. Database Fundamentals by Navathe
3. Object Oriented Programming using C++ by Balaguruswami

Faculty of Management Studies



CHARUSAT
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

30 Hours Bridge Course for fresher MBA | PGDM Students on

COMMUNICATION SKILLS-I

Take your Managerial Communication to the Next Level!

August 03-10, 2017 | 30 Hours | 9:10 AM – 4:20 PM

- **Objectives:** To hone basic linguistic and communication skills; learn styles of communication and gain insights into how to deal with people with different communication styles; help learners use the language effectively for various functions

Course Contents

An Introduction to Communication

- Communication: Definition, Process, Barriers; Introduction to C's of Communication; Types of Communication in the Professional World

Introduction to Listening Skills

- Listening: Need and Significance; Types of Listening; Techniques to improve Listening Skills

Introduction to Reading Skills

- Introduction to the importance of Reading Skills; Reading different types of texts; Reading, Interpreting and Analyzing; Reading and Interpreting Reports and Case Studies

Introduction to Writing Skills

- Basics of good formal Writing; Good Writing Skills: Paraphrasing and Summarising; Writing for Professional purposes : Report, Emails

Presentation Skills

- Basics of Public Speaking in a formal context; Understanding the art of Good Speaking: Use of Rhetoric; Developing Effective Presentation Skills: From audience analysis to preparing effective PowerPoint presentations

Faculty Coordinator: Dr. Bhaskar Pandya (9824269101) HSS Department, I²IM



INDUKAKA IPCOWALA INSTITUTE OF MANAGEMENT (I²IM)
FACULTY OF MANAGEMENT STUDIES (FMS)
DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES (HSS)

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF MANAGEMENT STUDIES
DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES
MBA Programme
A Bridge Course on Communication Skills – I

Scheme:

Semester	Course Name	Contact Hours	Marks
1	Communication Skills-1	30	100

Course Objectives:

- To hone basic linguistic and communication skills (of students) required in a business organization, namely: Listening, Speaking, Reading and Writing
- To help learners develop familiarity with varied styles of communication and gain insights into how to deal with people with different communication styles
- To help learners use the language effectively for various functions

Course Components:

Module No.	Title/Topic	Contact Sessions
1	An Introduction to Communication <ul style="list-style-type: none">• Communication: Definition, Process, Barriers• Introduction to C's of Communication• Types of Communication in the Professional World	04
2	Introduction to Listening Skills <ul style="list-style-type: none">• Listening: Need and Significance• Types of Listening• Techniques to improve Listening Skills	05
3	Introduction to Reading Skills <ul style="list-style-type: none">• Introduction to the importance of Reading Skills• Reading different types of texts• Reading, Interpreting and Analyzing• Reading and Interpreting Reports and Case Studies	07
4	Introduction to Writing Skills <ul style="list-style-type: none">• Basics of good formal Writing• Good Writing Skills: Paraphrasing and Summarising• Writing for Professional purposes : Report, Emails	06

5	Presentation Skills <ul style="list-style-type: none"> • Basics of Public Speaking in a formal context • Understanding the art of Good Speaking: Use of Rhetoric • Developing Effective Presentation Skills: From audience analysis to preparing effective PowerPoint presentations • Managing Questions and Answers from the audience 	08
Total		30

Instruction Methods and Pedagogy

The course is based on pragmatic learning. Classroom Teaching will be facilitated by Reading Material, Classroom Discussions, Task-based learning, projects, assignments and various interpersonal activities like case-studies, critical reading, group-work/pair-work, and presentations.

Evaluation:

Students' performance in the course will be evaluated on a continuous basis through the following components:

Sl. No.	Component	Number	Marks per incidence	Total Marks
1	Pre-Test	1	30	30
2	Assignments (Oral and Written)	4	10	40
3	Post-Test	1	30	30
Total				100

Learning Outcomes:

At the end of the course, the students should have polished their grammar and developed the ability to communicate effectively in business situations, they should be able to communicate message accurately, handle situation that require thoughtful communication, to use appropriate words and tones and so on.

Reference Books:

- Sanjay Kumar and PushpLata (First Edition, 2011), *Communication Skills*, Oxford University Press, New Delhi
- Krishna Mohan and Meena Banerji (2010), *Developing Communication Skills*, Macmillan Publications India Ltd., New Delhi
- M V Rodriques (2013), *Effective Business Communication*, Concept Publishing Company (P) Ltd., New Delhi

- Mohan and Meenakshi Raman (2006), *Effective English Communication Krishna*, McGraw-Hill Publishing Company Limited, New Delhi
- Geoffrey Leech & Jan Swartvik (1994), *A Communicative Grammar of English*, Longman Publications, New York
- Jones Leo (1979), *Functions of English*, Cambridge University Press, UK

Reference Reading:

- <http://www.communicationskills.co.in/index.html>
- <http://www.hodu.com/default.htm>
- <http://www.bbc.co.uk/worldservice/learningenglish>
- <http://www.englishlearner.com/tests/test.html>
- <http://www.englishclub.com/vocabulary/idioms-body.htm>
- <http://dictionary.cambridge.org>



CHARUSAT
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

**A Bridge
Course On
English Language and
Communication @
1st Semester
BBA (July 3-9,
2017)**

<p>This course aims at enhancing English Language and Communication of new enrolled students at the institute. Special care will be taken to LSRW Skills of Beginner Learners of English Language. This course will help you gain confidence in using English Language effectively.</p>	<p>The course will cover following topics:</p> <ul style="list-style-type: none">• Parts of Speech• Tenses and Moods• Active-Passive• Direct Indirect• Interrogatives• Introduction to Functional Communication• Communication for Persona, Academic and Social Use• Practice of Functional Communication
Timing	9:10 AM to 4:20 PM
Duration	30 Hours

For any query, Contact: Mr. Kaushik Trivedi (9904987756) HSS Department, I²IM



**INDUKAKA IPCOWALA INSTITUTE OF MANAGEMENT (I²IM)
FACULTY OF MANAGEMENT STUDIES (FMS)
DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES (HSS)**

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF MANAGEMENT STUDIES
DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES
BBA Programme

A Bridge Course on English Language and Communication

Teaching Scheme:

Semester	Course Name	Contact Hours	Marks
1	English Language and Communication	30	100

Course Objectives:

- To develop familiarity with English language and communication
- To learn the basic use of language at personal, academic and professional fronts

Course Components:

Module No.	Title/Topic	Contact Sessions
1	English Language <ul style="list-style-type: none">• Parts of Speech• Tenses and Moods• Active-Passive• Direct Indirect• Interrogatives	10
2	Functional Communication <ul style="list-style-type: none">• Introduction to Functional Communication• Communication for Persona, Academic and Social Use• Practice of Functional Communication	20
Total		30

Instruction Methods and Pedagogy

Teaching will be facilitated by reading material, discussion, task-based learning, projects, assignments and various interpersonal activities like case studies, critical reading, group work, independent and collaborative research, presentations, etc.

Evaluation:

Students' performance in the course will be evaluated on a continuous basis through the following components:

Sl. No.	Component	Number	Marks per incidence	Total Marks
1	Pre-Test	1	30	30
2	Assignments (Oral and Written)	4	10	40
3	Post-Test	1	30	30
Total				100

Learning Outcomes:

At the end of the course, the students should have developed familiarity and orientation towards English language and basic patterns of communication.

Reference Books:

- Sanjay Kumar and PushpLata (First Edition, 2011), *Communication Skills*, Oxford University Press, New Delhi
- Krishna Mohan and Meena Banerji (2010), *Developing Communication Skills*, Macmillan Publications India Ltd., New Delhi
- M V Rodriques (2013), *Effective Business Communication*, Concept Publishing Company (P) Ltd., New Delhi
- Mohan and Meenakshi Raman (2006), *Effective English Communication Krishna*, Mcgraw-Hill Publishing Company Limited, New Delhi
- Geoffrey Leech & Jan Swartvik (1994), *A Communicative Grammar of English*, Longman Publications, New York
- Jones Leo (1979), *Functions of English*, Cambridge University Press, UK

Reference Reading:

- <http://www.communicationskills.co.in/index.html>
- <http://www.hodu.com/default.htm>
- <http://www.bbc.co.uk/worldservice/learningenglish>
- <http://www.englishlearner.com/tests/test.html>
- <http://www.englishclub.com/vocabulary/idioms-body.htm>
- <http://dictionary.cambridge.org>



CHARUSAT
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

Indukaka Ipcowala Institute of Management

A Bridge Course for the 3rd Semester BBA Students

Academic English and Communication Skills: Speaking and Writing

June 27 - July 3, 2017 | 30 Hours | 9:10 AM – 4:20 PM

A course aims to hone basic linguistic and communication skills (of students) required in a business organization, namely Speaking and Writing, and help learners develop familiarity with Academic English

Content:

- Module-1: An Introduction to Academic English
- Module-2: Basics of Communication and Language Skills
- Module-3: Introduction to Reading Skills
- Module-4: Introduction to Writing and Academic Writing Styles
- Module-5: Basics of effective Speaking

Faculty Coordinator: Mr. Robert Parmar (9925466788) HSS Department, I²IM



INDUKAKA IPCOWALA INSTITUTE OF MANAGEMENT (I²IM)
FACULTY OF MANAGEMENT STUDIES (FMS)
DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES (HSS)

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF MANAGEMENT STUDIES
DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES
BBA Programme

A Bridge Course on Academic English and Communication Skills: Speaking and Writing

Scheme:

Semester	Course Name	Contact Hours	Marks
3	Academic English and Communication Skills: Speaking and Writing	30	100

Course Objectives:

- To hone basic linguistic and communication skills namely: Listening, Speaking, Reading and Writing
- To help learners develop familiarity with Academic English
- To help learners use the language fluently in formal contexts

Course Components:

Module No.	Title/Topic	Contact Sessions
1	An Introduction to Academic English <ul style="list-style-type: none">• Academic English : Need and Characteristics• Role and function of Academic English today• Characteristics of Academic Writing Styles	04
2	Basics of Communication and Language Skills <ul style="list-style-type: none">• Communication and Language• Function and Use of Language in a formal Context• Basic Language Skills: Listening, Speaking, Reading, Writing	07
3	Introduction to Reading Skills <ul style="list-style-type: none">• Basics of Reading Skills• Developing Reading Techniques• Practicing Reading Comprehension	05
4	Introduction to Writing and Academic Writing Styles <ul style="list-style-type: none">• Mechanics of 'Academic Writing Style'	06

	<ul style="list-style-type: none"> • Mechanics of Writing : Cohesion and Unity • Developing Topic Sentences and Paragraphs 	
5	Basics of effective Speaking <ul style="list-style-type: none"> • Effective Speaking: Strategies • Tips and Traits of an effective Speaker • Pronunciation, Intonation and Pause • Speaking in Context : Role plays, Extempore, Debate 	08
Total		30

Instruction Methods and Pedagogy

The course is based on pragmatic learning. Classroom Teaching will be facilitated by Reading Material, Classroom Discussions, Task-based learning, projects, assignments and various interpersonal activities like case-studies, critical reading, group-work/pair-work, and presentations.

Evaluation:

Students' performance in the course will be evaluated on a continuous basis through the following components:

Sl. No.	Component	Number	Marks per incidence	Total Marks
1	Pre-Test	1	30	30
2	Assignments (Oral and Written)	4	10	40
3	Post-Test	1	30	30
Total				100

Learning Outcomes:

At the end of the course, the students should have developed understanding and proficiency in language skills, they should be able to communicate message accurately and speak and present effectively; they should be able to write error free and lucid paragraphs with relative ease and less supervision.

Reference Books:

- Sanjay Kumar, P. L. (2015). Communication Skills. Oxford University Press India. (for Module I, III and V)
- Meenakshi Raman, P. S. (2006). Business Communication. Meenakshi Raman, Prakash Singh. (for module I and IV)

- J.P Parikh, AnshuSurve, Swarnabharati, AsmaBahrainwala (2011). Business Communication: Basic Concepts and Skills.
- R.K. Bansal, J.B. Harrison (2000). Spoken English.
- ParulPopat&KaushalKotadia. (2015).Communication Skills. Pearson Publication



CHARUSAT
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

Indukaka Ipcowala Institute of Management (I²IM)

A Bridge Course for the 5th Semester BBA Students

Academic Writing, Research & Communication Skills

Sharpen, Learn and Relearn

June 27- July 3, 2017 | 30 Hours | 9:10 AM – 4:20 PM

Take your Language skills to the next level. Prepare yourself to take on the academic and professional world through terrific Language Skills!!

Content:

- Module-1: Introduction to Academic Writing
- Module-2: Formal Academic Language
- Module-3: Writing for Research
- Module-4: Developing Academic Writing Skills
- Module-5: Presentation skills

Faculty Coordinator: Mr. Vijay Makwana (9998380041) HSS Department, I²IM



INDUKAKA IPCOWALA INSTITUTE OF MANAGEMENT (I²IM)
FACULTY OF MANAGEMENT STUDIES (FMS)
DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES (HSS)

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF MANAGEMENT STUDIES
DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES
BBA Programme (5th Sem)

A Bridge Course on Academic Writing, Research & Communication Skills

Teaching Scheme:

Semester	Course Name	Contact Hours	Marks
5	Academic Writing, Research & Communication Skills	30	100

Course Objectives:

- To hone and develop critical thinking and advanced writing skills for research
- To help learners develop familiarity with academic vocabulary
- To help learners use the language effectively in a formal environment.

Course Components:

Module No.	Title/Topic	Contact Sessions
1	An Introduction to Academic Writing <ul style="list-style-type: none">• Basics of Academic Writing : Need and Significance• Developing critical Thinking for academic writing and research	04
2	Formal Language for Academic purposes <ul style="list-style-type: none">• Basic Language functions: Greeting and Introductions• Interpretation and sharing of opinions• Academic Vocabulary	05
3	Writing for Research <ul style="list-style-type: none">• Characteristics of Research Writing• Formats of documents needed for Writing for Research	07
4	Introduction to Writing Skills <ul style="list-style-type: none">• Good Writing Skills: Paraphrasing and Summarizing• Writing for Professional purposes : Report, Emails, Abstract• Learn to quote and cite: Introduction to style manuals	08
5	Presentation Skills <ul style="list-style-type: none">• Presenting in a formal context	06

	<ul style="list-style-type: none"> • Preparation and Delivery in groups • Managing Q & A 	
Total		30

Instruction Methods and Pedagogy

The course is based on pragmatic learning. Classroom Teaching will be facilitated by Reading Material, Classroom Discussions, Task-based learning, projects, assignments and various interpersonal activities like case-studies, critical reading, group-work/pair-work, and presentations.

Evaluation:

Students' performance in the course will be evaluated on a continuous basis through the following components:

Sl. No.	Component	Number	Marks per incidence	Total Marks
1	Pre-Test	1	30	30
2	Assignments (Oral and Written)	4	10	40
3	Post-Test	1	30	30
Total				100

Learning Outcomes:

At the end of the course, the students should have polished their basic writing skills and developed the ability to communicate formally in business and academic situations, they should be able to communicate message accurately, handle situation that require thoughtful communication, to use appropriate words and tones and so on. They should be able to work on small academic projects within minimal language based guidance.

Reference Books:

Academic Writing for International Students, Routledge

Academic Writing: A Guide for Management Students and Researchers. Monipally, M.M. & Pawar, B.S. Sage. 2010. New Delhi

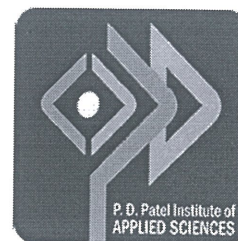
Effective Academic Writing Level - 1,2,3,4 (Second Edition) By: Alice Savage, Patricia Mayer, Masoud Shafiei, Rhonda Liss, & Jason Davis; *Publisher:* Oxford

Writing Your Thesis (2nd Edition) by Paul Oliver, Sage

Faculty of Sciences



CHARUSAT
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY



**Department of Biological Sciences
PD Patel Institute of Applied Sciences
Charotar University of Science and Technology**

SCIENTIFIC SEMINARS 2017-18

Department of Biological Sciences, PDPIAS, CHARUSAT has introduced a course on Scientific Seminars for improving academic speaking skill of the students in the form of presentation of Seminars.

It is a Value added course (with more than 30 contact hours per year) whose objective is to improve the oratory skills of the students with enhancement of their confidence in public speaking. The course is non-credited and has been introduced to last year (semester VI) of Bachelor of Science (Biology) students.

Date and Time : Every second and fourth Saturday of the semester (Except third Saturday and declared holiday).

Scientific Seminars 2017-18

CREDITS: 0

B.Sc. semester VI (BT/BC/MI)

HOURS: Min 30h

Department of Biological Sciences, PDPIAS, CHARUSAT has introduced a course on Scientific Seminars for improving academic speaking skill of the students in the form of presentation of Seminars.

It is a Value added course (with more than 30 contact hours per year) whose objective is to improve the oratory skills of the students with enhancement of their confidence in public speaking. The course is non-credited and has been introduced to last year (semester VI) of Bachelor of Science (Biology) students.

Date and Time : Every second and fourth Saturday of the semester (Except third Saturday and declared holiday).

COURSE DESCRIPTION:

1. Distribution of students among the teaching faculties as mentors

Students allotment to teachers for overall guidance and mentorship of improvement of students oratory skills

2. Selection and discussion of the topic selected by student with the respective mentors.

Students have to interact with their respective mentors about the topics selected and guidance for analysis of data and literature available for the selected topic to be presented.

3. Preparation of the presentation of the topic by the student in guidance of the mentor

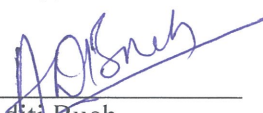
Students prepare the presentation under the mentor guideship for comfortable delivery of academic seminars

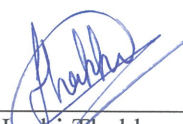
4. Presentation of the topic by the student in front of the faculties and students

Students prepare and demonstrate their final seminar in front of the staff and student assembly in the department.

COURSE OUTCOME:

- Seminars help students by increasing their English fluency, confidence of speaking and improvement of conversational skills.
- The student will be able to read, understand, discuss and present complex subjects in the field of Biology.


Dr. Aarti Buch
(Course Incharge)


Dr. Janki Thakkar
(HOD, Biological Sciences)

HEAD
DEPT. OF BIOLOGICAL SCIENCES
P. D. PATEL INSTITUTE OF APPLIED SCIENCES
CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
CHARUSAT CAMPUS, CHANGA-388421
DI. ANAND (GUJARAT)

