

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 : 2015-16)
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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

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: 4th July, 2015 To 26th September, 2015 (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.

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
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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.

Faculty of Pharmacy

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

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	Skin care products -I 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.
2	Skin care products -II 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.
3	Nail Care Products 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.

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.

Faculty of Management Studies

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

**ENGLISH LANGUAGE AND COMMUNICATION ORIENTATION COURSE
 (BRIDGE COURSE)**

I. Teaching Scheme

Teaching Scheme	Contact Hours	Total
Hours	30	30

II. Course Objectives

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

III. Course Outline

Module No.	Title/Topic	Classroom Contact Sessions
1	English Language <ul style="list-style-type: none"> • <i>Parts of Speech</i> • <i>Tenses AND Moods</i> • <i>Active-PASSive</i> • <i>Direct Indirect</i> • <i>Interrogatives</i> 	1 5
2	Functional Communication <ul style="list-style-type: none"> • <i>Introduction to Functional Communication</i> • <i>Communication for Personal, Academic AND Social Use</i> • <i>Practice of Functional Communication</i> 	1 5

IV. 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.
- Classroom Contact Sessions ... About 30 hours
- Pre-Test ... About 60 minutes
- Post-Course Test & Feedback ... About 60 minutes
- Assignments and Practice ... About 04 hours

V. Evaluation

The students' performance in the course will be evaluated at pre course level and post course level:

Sl. No.	Component	Number	Marks per incidence	Total Marks
1	Pre-Test	01	30	30
2	Post-Course Test	01	30	30
Total				60

VI. Learning Outcomes

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

VII. Learning Material

Learning material will be referred by the teacher.



CHARUSAT
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

**30 Hours Advance Level Bridge Course
on
COMMUNICATION SKILLS
at
Indukaka Ipcowala Institute of
Management
for the students of
3rd Semester BBA
Programme**

Sharpen your Business Communication Skills

June 29- July 3, 2015 | 30 Hours | 9:10 AM – 4:20 PM

Course Co-Ordinator: Gaurav Thakarar, Assistant Professor, HSS, IIIM, CHARUSAT
Mob.: 9662762841



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

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

A BRIDGE COURSE ON COMMUNICATION SKILLS

I Teaching Scheme

Teaching Scheme	Contact Hours	Total
Hours	30	30

II Course Objectives

- To help learners use the LSRW effectively for various functions
- To learn the basic use of language at personal, academic and professional fronts

III Course Outline

Module No.	Title/Topic	Classroom Contact Sessions
1	Formal Conversational Skills <ul style="list-style-type: none"> • An Introduction to Conversations for various purposes • Importance of acquiring Conversational Skills • Models, Techniques and Types of Conversations 	1 0
2	Listening and Speaking <ul style="list-style-type: none"> • LS in 21st Century • Practicing Listening and Speaking • Tips to effective Listening and Speaking 	1 0
2	Reading and Writing <ul style="list-style-type: none"> • RW in 21st Century • Practicing Listening and Speaking • Tips to effective Reading and Writing 	1 0

VIII. 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.
 - Classroom Contact Sessions ... About 30 hours
 - Pre-Test ... About 60 minutes
 - Post-Course Test & Feedback ... About 60 minutes
 - Assignments and Practice ... About 04 hours

IV. Evaluation

The students' performance in the course will be evaluated at pre course level and post course level:

Sl. No.	Component	Number	Marks per incidence	Total Marks
1	Pre-Test	01	30	30
2	Post-Course Test	01	30	30
Total				60

V. 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

VI. Learning Material

Learning material will be referred by the teacher.