

GANDHI MEMORIAL NATIONAL COLLEGE

AMBALA CANTT.

(Affiliated to Kurukshetra University, Kurukshetra)

Add-on/Certificate Courses





Add-On/Certificate Courses

Keeping in view the market demand for skilled graduates in various fields, Gandhi Memorial National College, Ambala Cantt. introduces several Add-on/Certificate Courses for providing the students participative as well as skill-based education for increasing their employability prospects and preparing them to face the cutthroat competition in the outside world. Based on the analysis of students' feedback, IQAC of the college after detailed discussion with the Principal and the Departments various Heads of proposes Addon/Certificate courses which are introduced in the college every year for the benefit of the students. The curriculum of these courses is designed in such a way that it provides the students detailed knowledge and skills required to perform real-world job responsibilities and further helps them perform confidently and efficiently at workplace.

2020-21

Sr. No.	Name of the Certificate Course	Course Code	Year of Offering
1.	Certificate Course in Solar Renewable Energy	SRECC-01	2021
2.	Certificate Course on Emotional Intelligence: A Key to Success	EICC-01	2021
3.	Certificate Course on Artificial Intelligence and Machine Learning	AIMLCC-01	2021
4.	Certificate Course on Vermicomposting of Bio- VBCC-01 waste		2021
5.	Certificate Course on Water Conservation	e Course on Water Conservation WCCC-01	
6.	Certificate Course on Vedic Sanskriti: Gita Ka Gyan	VSGGCC-01	2021
7.	Certificate Course in Physics: Introduction to Space Science		
8.	Certificate Course on Human Rights	HRCC-01	2021
9.	Certificate Course on Principle and Thoughts of Mahatma Gandhi	PTMGCC-01	2021
10.	Certificate Course in Vedic Mathematics	VMCC-01	2021
11.	Certificate Course on English Communicative Skills	ECSCC-01	2021
12.	Certificate Course in Yoga and Mental Health YMHCC-01		2021
13.	Certificate Course on Selling Skills in Retail	tificate Course on Selling Skills in Retail SSRCC-01	
14.	Certificate Course in Video Production and Graphic Design	VPGDCC-01	2021
15.	Certificate Course in Tally.ERP9	TECC-01	2021
16	Certificate Course in Business Skill Development	BSDCC-01	2021
17	Diploma Course in Business Skill Development	BSDDC-01	2021
18	Advanced Diploma Course in Business Skill Development	BSDADC-01	2021
19	Certificate Course in Pharmaceutical Chemistry	PCCC-01	2021
20	Diploma Course in Pharmaceutical Chemistry	PCDC-01	2021
21	Advanced Diploma Course in Pharmaceutical Chemistry	PCADC-01	2021

COURSE CONTENTS

Vedic Mathematics

Section I:

Introduction, historical and cultural aspects, vertically and crosswise sutra, algebraic products, addition and subtraction using the vinculum, multiplying with group of figures, decimal numbers, agrumental division, reciprocals, squaring and square roots, combined arithmetic operations, sum of squares, combined addition and division

Evaluation of determinants, reducing the order of determinant, evaluation of determinant by row operations, evaluation of determinant by column operations, the solution of simultaneous linear equations, elimination of one and two variables.

Section II:

Inversion of matrices, minors and co-factors, method to calculate inverse of matrices, curve fitting, exact curve fitting, regression, least squares quadratic regression of y on x, regression line of third degree, evaluation of logarithms ad exponentials

Transformations of equations, Change of roots of equations, to obtain an equation with roots opposite in sign from given equation, equation with reciprocal roots, multiple roots, equation with increased roots by some value, equation with reduced roots.

Section III:

Evaluation of sine and cosine functions for any angle, inverse sine, inverse cosine, inverse tangent function, hyperbolic functions, polynomial equations, equation with roots between 1 and -1, sine and cosine expansion series

Introduction to transcendental equations, solution of transcendental equations, cube roots, solution of cubic equations, solution of higher order equations.

Section IV:

Introduction to functions, functions of polynomials, division of two polynomial functions, reciprocal of function, square root of function, cube root and fifth root, powers of function, natural logarithms and exponentials of polynomial, cosine and sine of polynomial, Function with two variables, square and square roots of bipolynomials, division, powers of P(x,y), natural logarithms and exponentials of P(x,y), sine and cosine of bipolynomial.

Introduction to differential equations, linear and non linear differential equations, degree and order of differential equations, solutions of linear and non linear differential equations, integro-differential equations, solution of integro-differential equations, Introduction to partial differential equations, solution of partial equations.

Reference Books :

- 1. A.P Nicholas, K.R. Williams and J. Pickles; Vertically and Crosswise applications of the Vedic Mathematics Sutra, Inspiration Books Publication, 1984.
- 2. Swami Bharati krsna Tirthaji; Vedic Mathematics.

Certificate Course on Vermicomposting of Bio-waste

Syllabus

Duration: 30 Hrs

Unit: I

Introduction

About Vermicomposting, Biotic & Abiotic, Requirement of Plants, Organic Compost vs Chemical Fertilizers

Unit: II

Types of Vermicomposting Methods

Heap Method, Pit Method, Composting Bags Method, Open bed Method, Shape & Size of Pit

Unit: III

Miscellaneous

Vermiwash, Cocoons, Earthworms, Nutrient enriched vermicomposting

Reference books:

 Bhatt J.V. & S.R. Khambata (1959) "Role of Earthworms in Agriculture" Indian Council of Agricultural Research, New Delhi
 Dash, M.C., P.K. Sanapati, P.C. Mishra (1980) "Verms and Vermicomposting"

2. Dash, M.C., B.K.Senapati, P.C. Mishra (1980) "Verms and Vermicomposting" Proceedings of the National Seminar on Organic Waste Utilization and Vermicomposting Dec. 5-8, 1984, (Part B), School of Life Sciences, Sambalpur University, Jyoti Vihar, Orissa.

3. Edwards, C.A. and J.R. Lofty (1977) "Biology of Earthworms" Chapman and Hall Ltd., London.

4. Lee, K.E. (1985) "Earthworms: Their ecology and Relationship with Soils and Land Use" Academic Press, Sydney.

DEPARTMENT OF CHEMISTRY <u>CERTIFICATE COURSE</u> WATER CONSERVATION Session 2021-2022

Course Syllabus

Course Duration: 30 hours

Unit 1: Air and Water Chemistry

Chemistry of acid rain, Ozone chemistry and ozone layer depletion, role of CFCs in ozone depletion. Physicochemical properties of water; alkalinity and acidity of water, hardness of water, solubility of gases in water, metal complex formation and chelation; heavy metals in water.

Unit 2: Properties of Water

Physical: temperature, colour, odour, total dissolved solids and total suspended solids; hydrological cycle; precipitation, runoff, infiltration, evaporation; Chemical: major inorganic and organic constituents, dissolved gases, DO, COD, BOD.

Unit 3: Rain Water Harvesting and Conservation

Techniques for ground water recharge; river structure and patterns; watershed and drainage basins; importance of watershed and watershed management; rain water harvesting in urban settings; Conservation Techniques.

Unit 4: Water Budgeting:

Introduction to surface and ground water; surface and ground water pollution; water table; vertical distribution of water; formation and properties of aquifers;

Reference Books:

- **1.** Mays, L.W. 2006. Water Resources Sustainability. The McGraw-Hill Publications.
- 2. Forinash, K. 2010. Foundation of Environmental Physics. Island Press.
- 3. Pani, B. 2007. Textbook of Environmental Chemistry. IK international Publishing House.

Certificate Course

VIDEO PRODUCTION & GRAPHICS DESIGN

SESSION-2021-22

SYLLABUS

PRACTICAL BASED

Duration -30 hours

UNIT-1

GRAPHICS DESIGN

1. GRAPHICS DESIGN & SOFTWARE'S BASIC TOOLS.

2. THUMBNAIL MAKING

3. POSTER (FILM) MAKING

4. PICTURES EDITING

Unit-2

VIDEO SHOOT (MOBILE & CAMERA).

1. CAMERA TECHNIQUE. (Camera angle & Camera shots)

2. CAMERA SETTING. (ISO, SUTTURE SPEED, APURTURE)

3. SHOOT.

4. BASIC VIDEO EDITING. (SEQUENCE MAKING, VIDEO CUTTING, EFFECTS, PROJECT MAKING, SAVE & EXPORT,)

UNIT-3

SOCIAL MEDIA PROMOTION

1. SOCIAL MEDIA PLATFORMS.

2. FACEBOOK & FACEBOOK PAGE CREATION

3. YOUTUBE CREATE & VIDEO UPLOAIDING WITH SETTING.

4. INSTAGRAM PROMOTION & TAG.

UNIT-4

PROJECT FILE (PRACTICAL)

1.MOBILE FILM MAKING.

2. POSTER MAKING.

3. FILM PROMOTION BY SOCIAL MEDIA

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विषय क्रमांक	कोर्स का नाम	पाठ्यक्रम की	अधिकतम अंक	परीक्षा की	निर्देश का
(Course	(Course name)	अवधि	(Maximum	अवधि	माध्यम
code)		(Duration of	marks)	(Duration of	(Medium of
		the course)		exam)	instruction)
	वैदिक संस्कृति-	30 घंटे	कुल अंक :	3 घंटे	हिन्दी
	गीता का ज्ञान		100		
			(40+30+30)		
			योग्यता अंक :		
			40		

पाठ्यक्रम निम्न सत्रों का गठन करेगा जैसा कि नीचे दिखाया गया है :-

- ∻ <u>यूनिट₋1</u>
- वैदिक संस्कृति परिचय
- आर्यों का मूल निवास स्थान
- वैदिक काल का विभाजन

∻ <u>यूनिट-2</u>

- ऋग्वैदिककालीन साहित्य
- ऋग्वैदिक काल एवं उत्तर वैदिक काल से संबंधित महत्वपूर्ण तथ्य
- वेदों में नारी का महत्व

∻ <u>यूनिट−</u>3

- भगवद्गीता के अनुसार शिक्षा
- कर्म योग की परिभाषा
- गीता में कर्म योग
- गीता में ज्ञान मार्ग
- ∻ <u>यूनिट−4</u>
- गीता में निहित नेतृत्व के गुण
- गीता का प्रतिपाद्य एवं आधुनिक संदर्भ
- परिभ्रमण- धर्मक्षेत्र कुरुक्षेत्र परिभ्रमण

• <u>संदर्भ पुस्तके :-</u>

- वैदिक संस्कृति का इतिहास, डॉ. कीथ
- श्रीमद्भगवद्गीता, गीता प्रेस गोरखपुर
- श्रीमद्भगवद्गीता, विनोबा भावे
- 🔹 गीता रहस्य, लोकमान्य तिलक

Certificate Course in 'Selling Skills in Retail'

Syllabus Duration : 30 hours

MODULE -1 Introduction to retailing, concepts in retailing, organised and

unorganised retail. Growth of Retail sector in India

MODULE -2 Basics of sale, Importance of selling. Qualities of an effective sales person. Concept of selling. Art of prospecting, art of conversion, basic etiquettes and mannerism.

MODULE -3 Role of product knowledge in the selling. Knowledge of market trends and competition. Art of objection handling. Role of ethics in selling.

MODULE -4 Billings counter management, display management, collection of

customer information, inventory management.

MODULE-5 ON THE JOB TRAINING

Suggested Readings:

- 1. Kati, Sumit. Retail Selling Skills, Himalaya Publishing House Pvt. Ltd.
- 2. Pradhan, Swapna. Retailing Management, Tata McGraw-Hill Publishing company Ltd.
- 3. Gilbert, David. Retail MarketingManagement, Pearson Education.
- 4. Sheikh, Arif.Fatima, Kaneez. Retail Management, Himalaya Publishing House Pvt. Ltd.

CERTIFICATE COURSE

ARTIFICIAL INTELLEGENCE & MACHINE LEARNING

Course Syllabus

Course Duration: 30 hours

UNIT I

Artificial Intelligence: - Introduction to Artificial Intelligence, Understanding of the historical evolution of Artificial Intelligence, Components of AI, Identification of the characteristics of an intelligent system/agent, Turing Test and Advanced Turing test

Unit-II:

Artificial Intelligence Domains: - Data Science, Computer Vision, NLP

Expert System: Components of Expert System: Knowledge Base, Inference Engine, User Interface, Features of Expert System, Expert System Life Cycle, Categories of Expert System, Rule Based vs. Model Based Expert Systems, Advantages/Limitations of Expert System, Developing an Expert System:Identification, Conceptualization, Formalization, Implementation, Testing, Using an Expert System, Application Areas of Expert System.

<u>Unit-III</u>

Machine Learning: - About Machine learning, Applications of ML, Real World Examples of Machine Learning

Natural Language Processing: Introduction, Need, Goal, Fundamental Problems in Natural Language Understanding, How People overcome Natural Language Problems

Types of Machine learning: - Supervised learning (parametric/non-parametricalgorithms, support vector machines, kernels, neural networks).

Unsupervised learning (clustering, dimensionality reduction, recommender systems, deep learning).

Reinforcement learning

<u>Unit-IV</u>

Best practices in machine learning, innovation process in Machine learning and AI).

References:-

1. Russell, S. y Norvig, P.: "Artificial Intelligence, a modern approach", Ed. Prentice Hall, 1995

- 2. Nilsson, N.J.: "Artificial Intelligence, a new synthesis", Ed. Morgan Kaufmann Publishers, 1998
- Christopher Bishop, "Pattern Recognition and Machine Learning, illustrated Edition, Springer, 2006"

CERTIFICATE COURSE IN TALLY.ERP Duration:30 hours

<u>Syllabus</u>

Module 1

Duration: 10 Hrs

Chapter I Fundamental of Accounting

Chapter II Maintaining Chart of Accounts in Tally.ERP 9 Chapter

III Maintaining Stock Keeping Units (SKU) Chapter IV Recording

Day-to-Day Transitions in Tally.ERP 9

Module 2

Duration: 10 Hrs

Chapter V Accounts Receivable and Payable Management

Chapter VI MIS Reports

Chapter VI Recording Vouchers with TDS

Module 3

Duration: 10 Hrs

Chapter VIII Recording Vouchers with TDS (Tax Deducted at Source)Goods and Services Tax (GST) – Introduction

Shortcut Keys Practice

Certificate Course in Solar Renewable Energy Duration:30 hours

<u>UNIT -I</u>

Introduction, Definition of Power and energy, difference between power and energy, the role of energy in development, Limitation of renewable energy sources their usefulness seasonal nature, requirement, need for the use of new energy sources.

UNIT-2

Conventional energy sources Hydro Electric, Thermal, Nuclear, Non-Conventional Energy sources Biomass, geo-thermal, solar, wind energy, ocean energy, wave energy, advantages and disadvantages, challenges.

<u>UNIT 3</u>

Commercial energy sources, fosial-fuels coal, oil, natural gas, hydroelectric power, nuclear, Non- commercial energy sources, wood, animal wastes, agricultural waste, cost of raw materials, transport problems, issues

<u>UNIT 4</u>

Solar system: Energy from the sun, solar window, atmospheric effects, diffused radiations, Air mass, effect of Air Mass, seasonal effects, environmental effects on standard test conditions.

Reference

- Renewable energy; power for a sustainable future; oxford; Stephen peake; oxforduniversity press- 2017
- Renewable energy systems; Devid M, Buchla, Thomas E kissell, Thomas, L Floyd;Pearson India Education Services Pvt. Ltd. 2017
- Fundamentals of Renewable Energy Systems Paperback D.Mukherjee, New AgeInternational Publisher; First edition (2011)

CERTIFICATE COURSE ON BUSINESS SKILL DEVELOPMENT THEORY-40MM PRACTICAL-60MM

Unit-I

COMMUNICATIVE GRAMMAR

A. Lexis: -

Idioms & Phrases, one word substitute, Spotting errors, Para jumbles, confused words, comprehensives.

B. Communication: -

Introduction to verbal and nonverbal communication

Principles of effective communication-Effective listening

UNIT-II

WRITTEN COMMUNICATION

A. Writing skills, Dialogue writing, Interpreting Pictures.

B. Technical writing

Business Letters

E-mail Writing.

PRACTICAL PAPER

Developing Speaking & Listening Skills Through

- 1. Role Play Activities
- 2. Practicing Short Dialogues
- 3. Group Discussions
- 4. Debates
- 5. Speeches/Extempore
- 6. Listening to News Bulletin
- 7. Viewing & Reviewing TV Programmes.

MM-60

SYLLABUS

Diploma Course in Business Skill Development

Syllabus is divided into two parts

Theory: 40 marks

Practical: 40 Marks

Theory

M.M-40

A. Business Communication -- Its Forms, Practices

B. Self-Development & Communication

C. Effective Presentation Skills - Verbal & Non - Verbal

Practical

M.M-60

Developing speaking & listening skills through

1) Group Discussion

2) Debate

3) Extempore

4) PPT Presentation

5) Interview

6) Management Games

SYLLABUS

Advanced Diploma in Business Skill Development

Syllabus is divided into two parts

Theory: 40 marks

Practical: 40 Marks

Theory

M.M-40

Note: Four questions of ten marks each. All questions shall be compulsory

A. Writing Skills: Paragraph Writing, Report Writing, Letter Writing, E-Mail Writing

B. Listening Skills: Emphasis will be placed on Effective Listening Skills.

C. Interview Skills: Emphasis shall be laid on facing the interview

Practical

M.M-60

Developing speaking & listening skills through

1. Role Playing Activities

2. Group Discussions

3. Debates

4. Speeches / Extempore

5. Interview

6. Interpreting news reports

Certificate Course on Introduction to Space Science

Duration: 30 hours

Unit 1:- Introduction to Planetary and Interplanetary Space:

Solar System, Kepler's Laws, Earth-Moon System, Exploration of Solar System by Telescopes, Rockets and Satellites.

Unit 2:- Structure of Earth's Atmosphere:

Lower, Middle and Upper Troposphere (0-10 km), Stratosphere (10-50km), Ionosphere (50-1000 km), Protonosphere (10,000 to 60,000 km towards sun), Interplanetary space (Beyond 60,000 km towards the sun).

Unit 3 : - Asteroids, Meteors, Comets and Galaxies: Asteroids: Discovery and designation, Origin, Nature and Orbits of Asteroids. Meteors : Meteor showers and sporadic meteors. Comets: Periodic comets, Earth as a Magnetic Comet

Unit 4: - Fundamental Particles and basic forces:

Protons, Electrons, Neutrons, Neutrinos, Mesons, leptons, and quarks. The concept of Basic forces viz., strong, weak, electromagnetic and gravitational forces.

Reference Books:

1. Ionospheric Radio Propagation by Kenneth Davis. National Bureau of Standards Monograph 80 (1965), US Government Printing office, Washington D.C.

2. Physics of the Upper Atmosphere edited by J, A. Ratcliffe, Cavendish Laboratory, University of Cambridge. Academic Press New York and London (1960)

3. Source book on the Space Sciences - Samuel Glasstone, Princeton, New Jersey.

5. The Upper Atmosphere - S K Mitra

CERTIFICATE COURSE ON ENGLISH COMMUNICATIVE SKILLS

SYLLABUS

Duration: 30 hours

Unit I –**Basic Grammar, Vocabulary and Word Formation** - Parts of Speech and their function in spoken and written language, Tense, Articles, Learning vocabulary with the help of root words, Formation of new words by adding Prefixes and Suffixes.

Unit II – **Speaking Skills** – Practicing English Conversations - Introducing Yourself, Introducing Another Person, Meeting a Person First Time, Asking for a Way and Giving Directions, Giving a Message on Phone, Apologizing, Making a Request, At the Bookshop, Accepting an Invitation, Declining an Invitation, Appreciating Something, Ordering a Meal at the Hotel, Attending an Interview for a Job.

Unit III –**Essentials of Spoken English** – Idiomatic Expressions, Words Often Mispronounced, Examples of Problem Words with their Incorrect and Correct Usage.

Unit IV – **Writing Skills** – Writing Applications, Notices, E – mails, CV writing.

Course Objectives:

- To develop the basic reading and writing skills of learners.
- To help learners develop their listening skills, which will, enable them to listen to lectures and comprehend them by asking questions

• To help learners develop their speaking skills and speak fluently in real context.

• To help learners in building vocabulary of a general kind by developing their Reading skills.

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

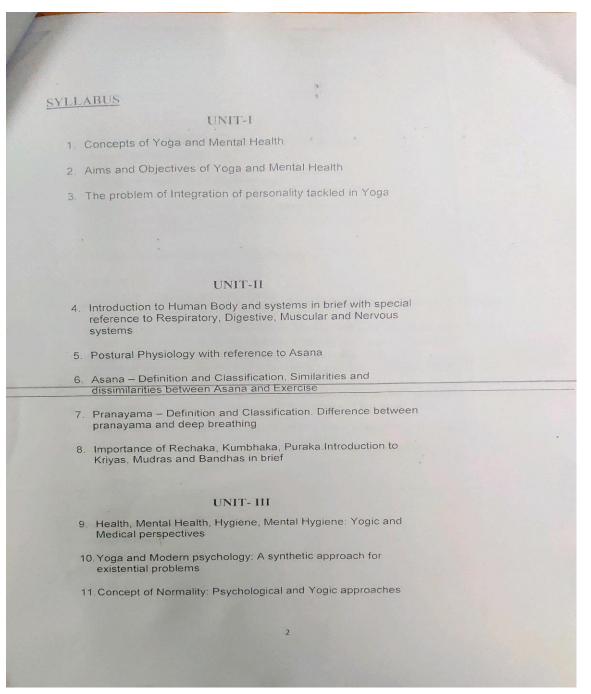
- develop their reading, writing, listening and speaking skills
- improve their speaking ability in English both in terms of fluency and comprehensibility
- give oral presentations and receive feedback about their performance
- improve their reading fluency skills through extensive reading
- enlarge their vocabulary by keeping a vocabulary journal
- strengthen their ability to write different types of applications, CV, emails, notices, etc.

Suggested Readings

Collins, Beverley, and Inger M. Mees. *Practical Phonetics and Phonology: A Resource Book for Students*. Routledge, 2013.

Gangal, J. K. A Practical Course in Spoken English. PHI Learning Pvt. Ltd., 2012. Lewis, Norman. Word Power Made Easy. W.R.Goyal Publishers and Distributors. Delhi, 2007. Nesfield, John Collinson. Manual of English Grammar and Composition. Macmillan, 1912. Sinha, Anjani K. Empowering Communication Skills. Shipra Publications, Delhi, 2016. Varshney, K.L. Linguistics and Phonetics. Student Store, Bareilly, 2004-2005.

Certificate Course on Yoga and Mental Health Duration: 30 hours



UNIT-IV

12. Emotional Disorders: Causes, effects and remedies in Patanjala Yoga Sutra

13. Conflict, Frustration: Yogic Remedies

- 14. Personal and interpersonal Adjustments through Yoga.Yamas, Niyamas, Asanas and Pranayamas – their contribution to Physical and Mental Health
- 15. Prayer its significance in Yogic Practices.

REFERENCES:

The Yoga Sutra of Patanjali, M.R.Yardi, Bhandarkar Oriental Research Institute, Pune, 1979

Outlines of Indian Philosophy, Hiriyanna, Motilal Banarsidass Publisher, 2014 Indian Philosophy, Dr S. Radhakrishanan, Oxford University Press 1923 Hatha Yoga Pradipika, Yogi Swatmarama, Yogavidya.com, 2002 Yoga Sutras of Patanjali, Sadhana Pada with Exposition of Vyasa, Motilal

Banarsidass, 2002 Introduction to Indian Philosophy, Dutta & Chatterji, Rupa & Co, 2015 Light of Yoga (on Yama – Niyama), B.K.S. Iyenger, Thorsons, 2006

The Yoga system of Patanjali, James, Hougton, wood, Forgotten Books, 2018

3

Science of Yoga, I.K.Taimni, Theosophical Publishing House, 2007

END COURSE ASSESSMENT:

- (i) Practical Test
- (ii) Written Test

Course Coordinator:

Dr. Seema Kansal Department of Economics G.M.N. College Ambala Cantt

CERTIFICATE COURSE IN PHARMACEUTICAL CHEMISTRY BASED ON AYURVEDA

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		tte Course in Pharmaceuti Based on Ayurveda A/B.Sc./B.Com) Examination	
	1 ⁵⁶ year Pharmaceutical C	hemistry based on Ayurved	a Certificate Course
	Total Theory 100	Practical Marks 100	Total Marks 200
	Subject: Certificate Cour (Theory)	se in Pharmaceutical Chemis	try hased on Ayurveda
	Certificate Course		
	प्रथम इकाई 1 आयुर्वेद के	मूलभूत आधार	
	2 औषधीय र	सायन शास्त्र संक्षिप्त परि	गय
	द्वितीय इकाई द्रव्य गुण	विज्ञान	
	Books Prescribed: 1, 1, 2, 3, 4,	Original Texts चरकसंहति। रसार्णवः रसकल्पः रसकपायवैद्यकम्	
	2. Resource Books: 1. 2. 3. 4.	यजुर्वेद अथर्ववेद अर्कप्रकाश योगशुद्धनिधिः	
	Secondary Sources:		
	2. History of Che	n of Chemistry and Chemicz mistry in Ancient and Medie ory of Science of India and Technology in the Eigh	wal
1	(Practical)	urse in Pharmaceutical Cher Preparation of Ayurvedic a	
1 HIT		Preparation of Perfumery 1	
Particular	3. Pharmaceutical	Preparation of Cosmetics	pased ion-Avurveda.

DIPLOMA COURSE IN PHARMACEUTICAL CHEMISTRY BASED ON AYURVEDA

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State State State		A sector care and resident to the sector sector and
Diploma	Course in Pharmaceutical Chemis	
	(Add on Course for B.A/B.Se. Examination Scheme for year	2019-20
Total Theory	Prnetical Marks 100	Total Marks 200
200 X and Di	ploma Course in Pharmaceutical Ch	mistry based on Ayurveda
रथम इकाई भेष	ज्य शास्त्र के आधार भूत सिद्धांत	
	रीरिक संरचनाआयुर्वेद एव आध	3
तृतीय इकाई द्रव्य	गुण विज्ञान विस्तृत परिचय	
Books Prescril	hed: 1. Original Texts 1. रसरत्नाकर 2. रसेन्द्रचूडामणि 3. रसनदात्र मालिका 4. रसकाषाय वैद्यकम्	
Books Preseril Resource Boo	 रसरत्नाकर रसेन्द्रयूडामणिः रसनक्षत्र मालिका रसकाषाय यद्यकम् 	
Resource Boo Secondary So 1. A con 2. Indiar 3. Sansk	 रसरत्नाकर रसेन्द्रयूडामणिः रसेन्द्रयूडामणिः रसनक्षत्र मालिका रसकाषाय येद्यकम् रसकाषाय येद्यकम् रसकाषिता चरकसंहिता कौटित्य अर्थशास्त्र अर्थवंवेद 	enth century.
Resource Boo Secondary So 1. A con 2. Indiar 3. Sansk 4- Science	1. रसरत्नाकर 2. रसेनद्रयूडामणिः 3. रसनव्हत्र मालिका 4. रसकाषाय वैद्यकम् ks:	
Resource Boo Secondary So 1. A con 2. Indiar 3. Sansk 4- Science Subject: Diplo	 रसरत्नाकर रसेन्द्रयूडामणि: रसनव्हत्र मालिका रसनव्हत्र मालिका रसकाषाय वैद्यकम् रसकराषिता चरकर्सहिता चरकर्सहिता कौटिल्य अर्थशास्त्र अर्थवंवेद urce: cise History of Science of India science & Technology in the Eighter rit & Science ce in Sanskrit	istry based on Ayurveda Prac

ADVANCED DIPLOMA COURSE IN PHARMACEUTICAL CHEMISTRY BASED ON AYURVEDA

	ia in Pharmaceutical Ch 3 rd Year Add on Course for B.A/B Examination Scheme for y	Se/B.Con	1)	2
Total Theory 100	Practical Marks 100	1	Total Marks 200	
प्रथम इकाई औषधीय	रसायन शास्त्र (अकार्बनिक	⁵) परिचय		
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CERTIFICATE COURSE IN HUMAN RIGHTS Duration: 30 hours

SYLLABUS

UNIT-I

1. Understanding Human Rights

2. Human Rights: Meaning and Development of International Concerns

3. Civil and Political Rights

- Universal Declaration of Human Rights
 Economic, Social and Cultural Rights

UNIT-II

- 6. Specific Human Rights Food, Shelter and Health
- 7. Right to Development
- 8. Major Human Rights Conventions
- 9. Right to Self-Determination
- 10. Food, Shelter and Health Rights

UNIT-III

- 11. Human Rights of Groups
- 12. Rights of Minorities
- 13. Rights of Migrants
- 14. Child's Right
- 15. Women's Rights
- 16. Rights of Refugees

UNIT-IV

17. The U.N. Machinery: Charter
18. National Instructions and Laws
19. Treaty Bodies Regional Arrangements
20. Non-Governmental Organizations
21. Human Rights: Challenges of Globalization
22. Human Rights Concerns and emerging trends

REFERENCES:

Alston, Philip, ed. Non-State Actors and Human Rights. Oxford University Press, USA, 2005.

Alston, Philip, and James Crawford, eds. The Future of UN Human Rights Treaty Monitoring. Cambridge University Press, 2000.

Alston, Philip, and Frederic Megret, eds. The United Nations and Human Rights: A Critical Appraisal. Second Edition. Oxford University Press, 2014.

Annan, Kofi. The Circle of Empowerment: Twenty-five Years of the UN Committee on the Elimination of Discrimination Against Women. Edited by Hanna Schopp-Schilling and Cees Flinterman. The Feminist Press at CUNY, 2007.

Bassiouni, M. Cherif, and William A. Schabas, eds. New Challenges for the UN Human Rights Machinery: What Future for the UN Treaty Body System and the Human Rights Council Procedures? Intersentia, 2011.

Bayefsky, Anne F. The UN Human Rights Treaty System in the 21st Century. Kluwer Law International, 2000.

Bayefsky, Anne Fruma. *How to Complain to the UN Human Rights Treaty System*. Martinus Nijhoff Publishers, 2003.







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