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ARTS, SCIENCE AND COMMERCE COLLEGE, RAHATA





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SELF STUDY REPORT-CYCLE 3rd 2018-2023

Criterion: IIIResearch, Innovations and Extension

Key Indicator: 3.3

Research Publication and Awards

Metric: 3.3.2 (QnM)

Number of books and chapters in edited volumes/books published and papers published in national/international conference proceedings per teacher during last five years

Submitted to







Arts, Science and Commerce College, Rahata

Tal- Rahata, Dist-Ahmednagar, Pin - 423107 (MS) (University of Pune Affiliated ID No. PU/AN/ASC/052/1997) NAAC RE-ACCREDITED "B++" GRADE COLLEGE



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DECLARATION

We the undersigned, hereby declare that all information, reports, true copies of the supporting documents, and numerical data submitted by our institution for the purpose of NAAC accreditation have been thoroughly verified by the Internal Quality Assurance Cell (IQAC). We affirm that these submissions are accurate and correct as per our records.

This declaration pertains specifically to the accreditation process for the third cycle of the institution, covering the period from 2018-19 to 2022-23.

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Thank you.

Sincerely,

Dr. Vikram P. Bhalekar IQA Coordinator Internal Quality Assurance Cell Arts, Science and Commerce College, Rahata

Date-30/07/2024

Place- Rahata

Prof.(Dr.) Somnath S. Gholap
Prof. (Science and Commerce College

Arts, Science and Commerce College Rahata, Tel-Rahata, Dist-Ahmednagar

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/international conference proceedings per teacher during year 2020-21

Sl. No	Name of the teacher	Title of the book/ch apters publishe d	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / Internat ional	Calen dar Year of public ation	ISBN numbe r of the procee ding	Affiliat ing Institu te at the time of public ation	Name of the publishe r	Link of the sour ce webs ite
1	Dr.S.R.Potdar	Atomic and Molecula r physics for TYBSc	Chapter 1- Atomic Structure			National	2021	ISBN 978-93- 24457- 44-1	Arts Science and Comme rce College Rahata.	Success Publicatio n	LINK
2	Dr.S.R.Potdar	Atomic and Molecula r physics for MSc 1	Chapter 1- Atoms			National	2021	ISBN 978- 932445 7-46-2	Arts Science and Comme rce College Rahata.	Success Publicatio n	LINK
3	Dr.S.R.Potdar	E book on- Progressi on in Science, Technolo	Chapter- 3 Angular Momentum			National	2021	ISBN 978-81- 948061 -2-7	Arts Science and Comme rce College	Prarup Publicatio n	LINK

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4	Dr.V.P.Bhaleka r	Quantum Mechanic s	Chapter-3 Angular Momentum		National	2021	ISBN 978- 932445 7-46-2	Arts Science and Comme rce College Rahata.	Success Publicatio n	LINK
5	Dr. S. K. Pulate	Cost and works Accounti ng-II			National	2021	ISBN 978-93- 89400- 00-0	Arts Science and Comme rce College Rahata.	Prashant Publicatio n	LINK
6	Dr. D. T. Satpute	Bibliome trics and Webome trics			National	2021	ISBN 978-93- 90618- 11-8	Arts Science and Comme rce College Rahata.	Harshwar dhan Publicatio n	LINK
7	Dr. D. T. Satpute	Library Network s			National	2020	ISBN 978-93- 90618- 12-5	Arts Science and Comme rce	Harshwar dhan Publicatio n	LINK

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8	Dr. J. R. Dighe	आधुनिक भारताच्या जडणघड णीत समाजसु धारकांचे योगदान	कौटिल्याचे अर्थशास्त्र		National	2021	ISBN 978-93- 91097- 09-7	Arts Science and Comme rce College Rahata.	Daydhan Publicatio n	LINK
9	Dr. Shaik A S	हिंदी साहित्य और भाषा एक विवेचन	नाच कविता मै व्यक्त जीवन विषयक चिंतन		National	2021	ISBN 978-93- 89908- 43-5	Arts Science and Comme rce College Rahata.	ABS Publicatio n	LINK
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11	Dr. D. T. Satpute		ICT and its impact on Libraryand information	Research methodlogy in Library Science, Social	Internati onal	2021	ISBN 978-81- 951586	Arts Science and Comme	Aruna Publicatio n	NA

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Physics

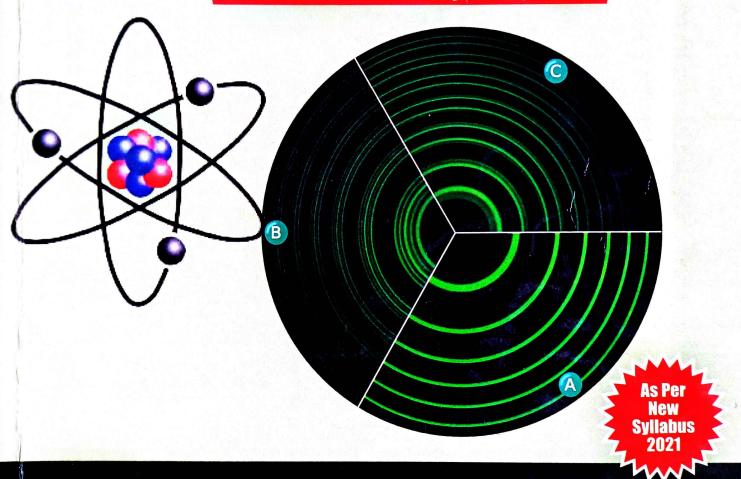
Atomic and Molecular Physics

T. Y. B. Sc. (Sem. - V) (PHY - 354)

- ◆ Dr. R. B. Bhise ◆ Prof. S. K. Thorat ◆ Dr. S. V. Dhanwate
- ♦ Dr. R. U. Mene

- ♦ Dr. R. A. Pawar ♦ Dr. S. R. Potdar
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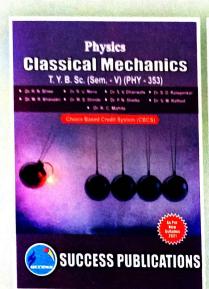
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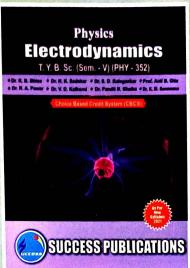
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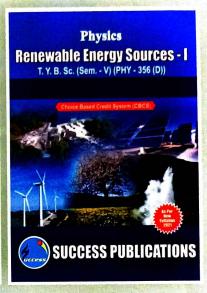
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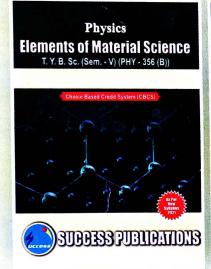
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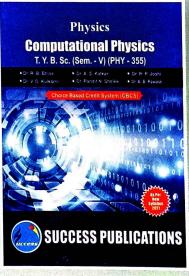
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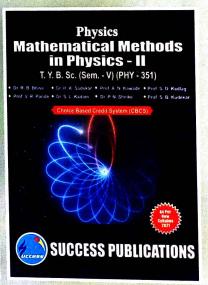












Physics Atoms and Molecules M. Sc. (Sem. - II) (PHCT - 122) (Paper-II)

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Dr. R. U. Mono

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Atoms and Molecules (PHCT-122)

M. Sc. (Sem. - II) (Paper-II)

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M. Sc. (Sem. - II) (Paper – II) Atoms and Molecules (PHCT – 122)

a) Revision of Atomic models, Revision of Hydrogen atom, Revision of quantum numbers, exclusion principle, electron configuration, Hund's rule b) origin of spectral lines, selection rules, One electron spectra, Coupling schemes, two electron spectra, fine structure and hyperfine structure, The Hartree Theory, Results of Hartree theory, X-ray line c) Atoms in Electromagnetic field: Zeeman effect- Normal and Anomalous, Paschen- Back effect, Stark effect (weak field) Molecules: Bonding mechanism in molecules, Molecular orbital methods, Valence band method, Molecular Spectra – Rotational and vibrational spectra for diatomic molecules, Electronics spectra of diatomic molecules, vibration course structure, vibrational analysis of band system, Frank – Condon principle, Dissociation energy and dissociation products, rotational fine structure of electronic vibration transitions, electronic angular momentum in diatomic	No.	Topic Topic	Credit
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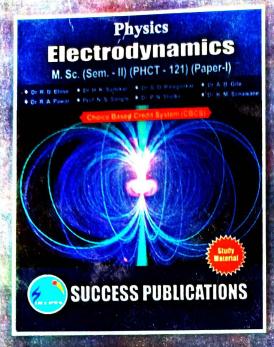
Spectroscopic Techniques :	
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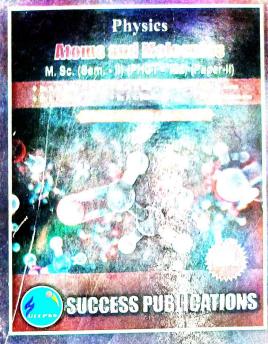
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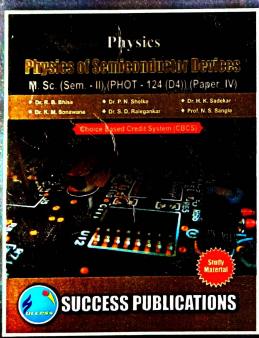
M.Sc. (Sem.–II) (Paper – II) PHCT-122 : Atoms and Molecules

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Modeling, Simulation and Validation of Greenhouse Microclimate

Satyajit Ramesh Potdar

Department of Physics, Arts, Science and Commerce College, Rahata, Dist-Ahmednagar, Maharashtra, India.

ABSTRACT - In present research work the greenhouse microclimate Mathematical model based on thermodynamics principle is simulated and validated with Matlab-Simulink. The model is simulated under various conditions and results are validated by using standard data provided by ASAE standards 2003.

Keywords - Greenhouse Modeling, Simulink Model, ASAE standards 2003, Greenhouse Microclimate.

INTRODUCTION:

The greenhouse is used to create favorable environment for crops to reach optimum growth and maximum yield. The greenhouse also provides protection from heavy rain, extreme heat and cold conditions to the crop. The structure of greenhouse depends upon location, crop to be grown and external climate conditions. The greenhouse climate is result of all these conditions and in addition to the control actions taken. Thus greenhouse climate is function of various interdependent factors. The relation between these factors and climate parameters is complex; hence greenhouse climate control is a tedious task.

The relation between Greenhouse climate parameters and other factors is determined by using various mathematical equations which are called mathematical models. These mathematical models represent variation in greenhouse climate with variation in various other factors. The Greenhouse climate parameters are internal temperature, humidity, light intensity, CO₂ gas concentration, wind speed, soil temperature, soil moisture, etc. The factors on which greenhouse climate depends are external air temperature, humidity, solar irradiance, covering material properties, medium properties, soil properties, cropping pattern, etc. Thus for prediction and for proper control of Greenhouse climate, it is necessary to develop mathematical model of Greenhouse. Such models are based on thermodynamical principals and called energy-mass balance equations. The more we understand physics and heat dynamics of Greenhouse, better control we can achieve. There are various Greenhouse models available for control and understanding of Greenhouse environment.

Bennis N. and et. al.[1]developed a benchmark model of Greenhouse which describes internal temperature and humidity, by considering external radiation, temperature, humidity and wind speed. The model is validated experimentally and used for controlling of temperature and humidity.

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Dr. Pravin R. Talekar, Young Researcher Association, Kolhapur.

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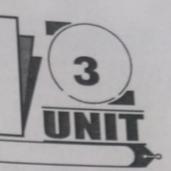
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Angular Momentum



- Eigen values and Eigen functions of L2 and L2 operators 3.1
- Ladder operators L, and L 3.2
- Pauli theory of spins (Pauli's matrices) 3.3
- Matrix representation of J in |jm> basis 3.4
- Addition of angular momenta 3.5
- Computation of Clebsch-Gordon coefficients in simple cases (J₁=1/2, 3.6 $J_2 = 1/2$

Introduction:

Angular momentum is very important and useful measurement in quantum mechanics. It is particularly useful in the description of molecular rotations, motion of electrons in atoms and the motion of nucleons in nuclei. This module covers the general formalism of angular momentum, properties of the angular momentum operator, Eigen values and Eigen states of operators, ladder operator, Pauli's theory of spin, addition of angular momentum and computation of Clebsch-Gordon coefficient.

In classical mechanics, the angular momentum of a particle (with respect to the origin) is given by the formula

$$\vec{L} = \vec{r} \times \vec{p} \tag{3.1}$$

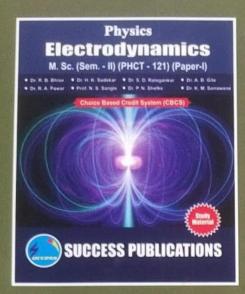
Where, \vec{r} and \vec{p} represent the position and linear momentum of the particle. In quantum mechanics, angular momentum operators Lx, Ly and Lz in Cartesian coordinate system (x, y, z) can be expressed as,

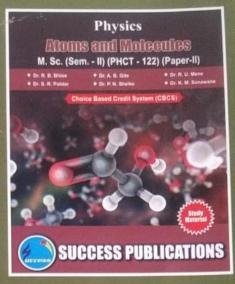
$$L_x = yp_z - zp_y$$
, $L_y = zp_x - xp_z$, and $L_z = xp_y - yp_x$

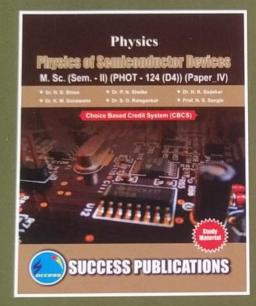
Here, momentum \vec{p} is represented in operator as -iħ ∇ , where $\nabla = \hat{\imath} \frac{\partial}{\partial x} + \hat{\jmath} \frac{\partial}{\partial y} + \hat{k} \frac{\partial}{\partial z}$

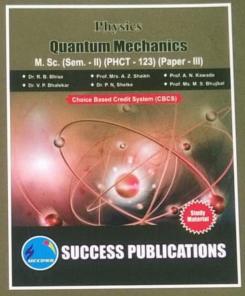
The corresponding angular momentum operators are obtained as

The corresponding angular momentum spectrum
$$L_{x} = \frac{\hbar}{i} \left(y \frac{\partial}{\partial z} - z \frac{\partial}{\partial y} \right); L_{y} = \frac{\hbar}{i} \left(z \frac{\partial}{\partial x} - x \frac{\partial}{\partial z} \right); L_{z} = \frac{\hbar}{i} \left(x \frac{\partial}{\partial y} - y \frac{\partial}{\partial x} \right)$$
or
$$L_{x} = -i\hbar \left(y \frac{\partial}{\partial z} - z \frac{\partial}{\partial y} \right); L_{y} = -i\hbar \left(z \frac{\partial}{\partial x} - x \frac{\partial}{\partial z} \right); L_{z} = -i\hbar \left(x \frac{\partial}{\partial y} - y \frac{\partial}{\partial x} \right)$$
(3.2)









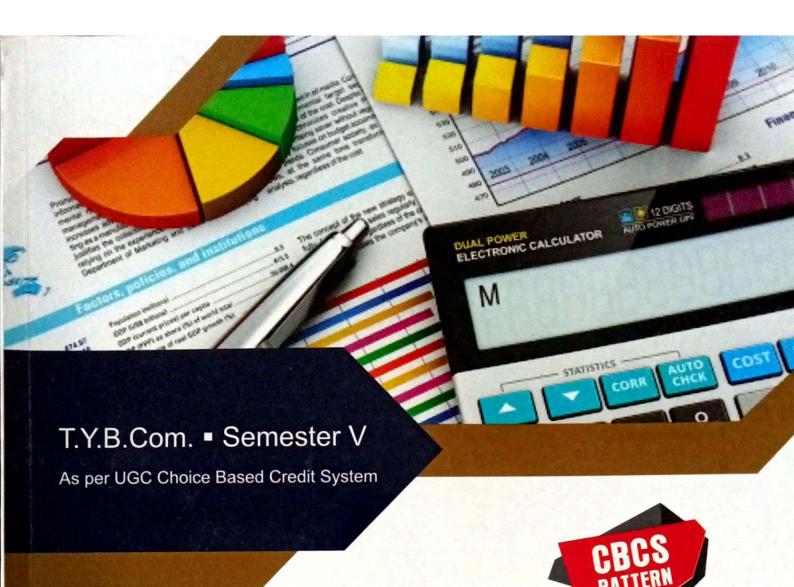
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Syllabus for T.Y.B.Com. Degree course (CBCS) w.e.f. June 2021

Semester - V, Cost and Works Accounting (Special Paper-II)

(Overhead and Accounting for Overheads)

1. Overheads

- 1.1 Meaning and Definition of Overheads
- 1.2 Classification of Overheads
- 1.3 Introduction to Cost Accounting Standard, Cost Accounting Standard Board
- 1.4 Introduction to CAS -3, CAS-11, CAS-15
- 1.5 Cost Accounting Standard -3 Production and operational Overheads

2. Accounting of Overheads (Part - II)

- 2.1 Collection and Allocation of overheads.
- 2.2 Apportionment and Reapportionment of overheads
- 2.3 Primary and Secondary Distribution of Overheads
- 2.4 Simple problem of Primary distribution of Overhead and Secondary distribution of overheads (Repeated & Simultaneous Equation method only)

3. Accounting of Overheads (Part- II)

- 3.1 Absorption Meaning, Rate and Methods of Overhead Absorption
- 3.2 Under and Over Absorption of overheads- Meaning, Reasons and Accounting treatment
- 3.3 Simple problems on the accounting treatment of under and over absorption of overheads

4. Activity Based Costing

- 4.1 Introduction and definition
- 4.2 Purpose and benefits of Activity based Costing
- 4.3 Cost Drivers
- 4.4 Problems on Activity based costing (Simple Problems only)

Distribution of Marks:

Theory - 50%

Problems - 50%

Areas of Practical Problem

- Primary and Secondary distribution of overheads including Repeated and Simultaneous method
- Machine hour rate
- Activity based costing (Simple problems only)

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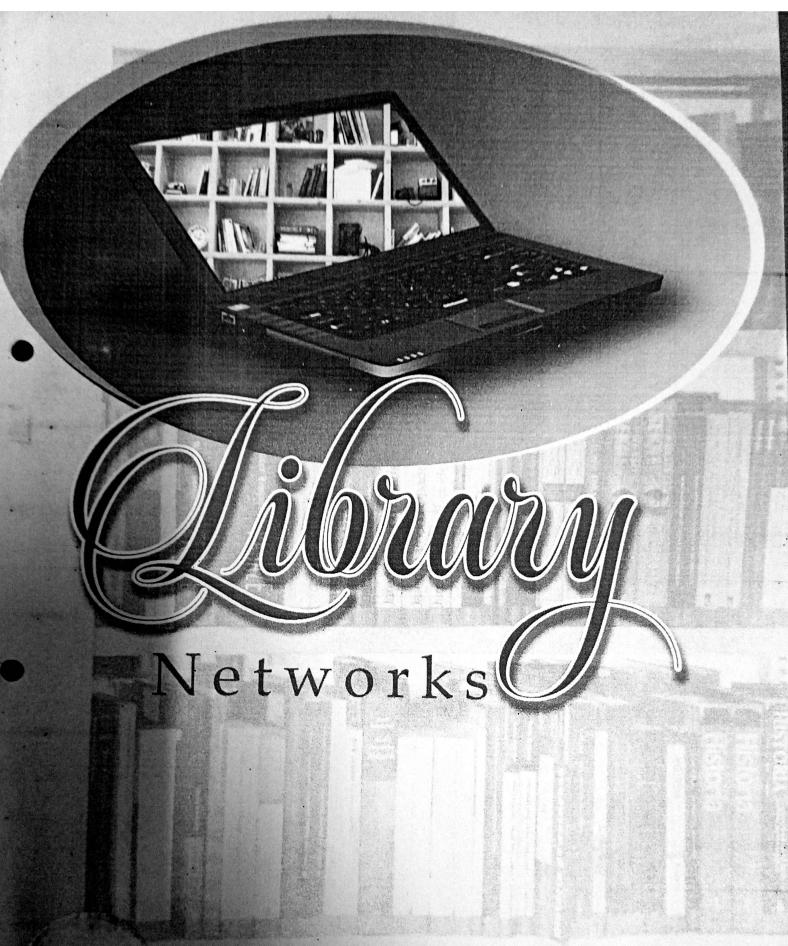
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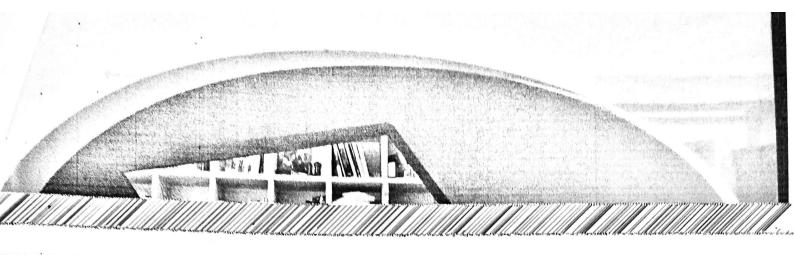
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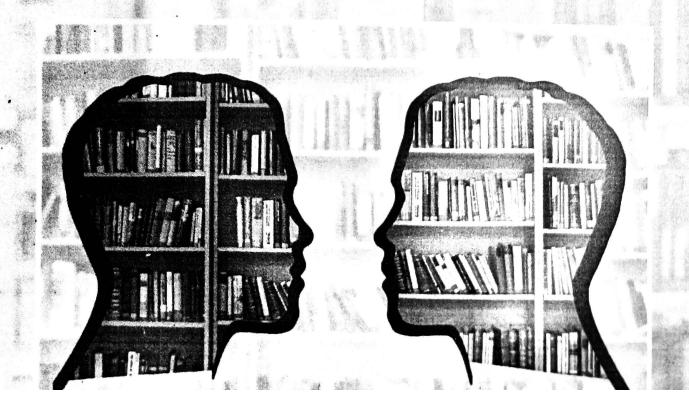




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विशाखादत्त याने ''मुद्राराक्षस'' या संस्कृत नाटकात नंदवंशाचा नाश करून आणि चंद्रगुप्त मौर्य याने मौर्यसाम्राज्याची स्थापना केली असे वर्णन केले आहे.

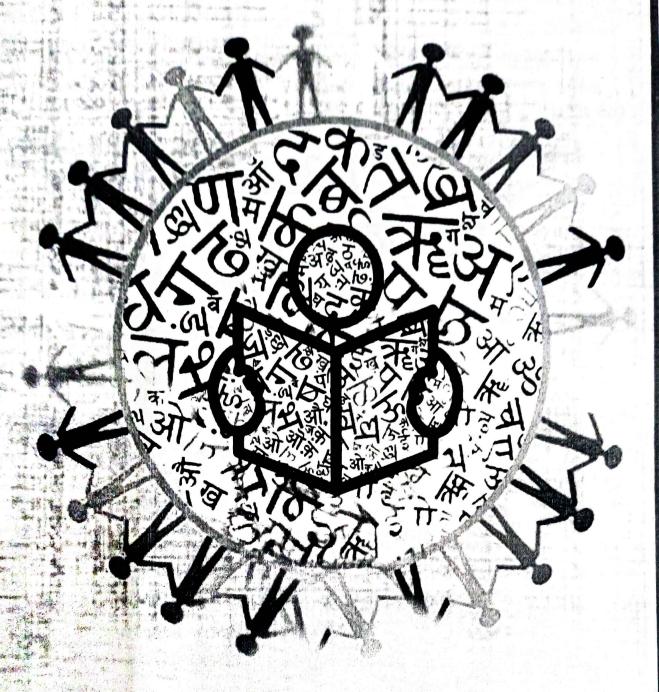
एका दंतकथेनुसार पुष्पपूर या नगरात मगध सम्राट धनानंदाने कौटिल्याला श्राद्धाच्या वेळी दरबारात बोलवून त्याला हाकलावून लावले व त्याचा अपमान केला. आणि चाणक्याने नंदकुळाचा नाश करण्याची प्रतिज्ञा केली. चंद्रगुप्त आणि चाणक्य यांनी एकत्र येवून नंदाच्या मगध राज्यावर हल्ला करून विजय मिळवला व मौर्य साम्राज्याची स्थापना केली.

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'इ.स.न.पूर्व ४था शतकात तकक्षिला येथे एका ब्राम्हण कुटुंबात कौटिल्य उर्फ आर्य चाणक्याचा जन्म झाला. कौटिल्य याचे मूळनाव विष्णुगुप्त होते. चंद्रगुप्ताचा प्रधान मंत्री कौटिल्य उर्फ आर्य चाणक्य याने मौर्यकाळात अर्थशास्र हा महत्वपूर्ण ग्रंथ लिहिला. चाणक्याचा अर्थशास्रावरील हा ग्रंथ ''कौटिलीय अर्थशास्र'' या नावाने प्रसिध्द आहे."

चाणक्याने आपल्या ''कौटिलीय अर्थशास्र'' या ग्रंथात राजाची कर्तव्य सांगितली आहेत. तसेच प्रशासन व्यवस्था कशी असावी याचे विस्तृत वर्णन केले आहे. कौटिलीय अर्थशास्त्राची संहिता:

कौटिलीय अर्थशासा हा ग्रंथ एकूण पंधरा भागात विभागलेला आसून हे पंधराभाग एकशेऐशी उपभागात विभागलेले आहेत. आपल्या ग्रंथात कौटिल्याने सहा हजार श्लोकांच्या सहाय्याने प्राचीन आचार्यांच्या अर्थशास्र विषयक ग्रंथाचा अभ्यास करून



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हिंदी साहित्य और भाषा एक विवेचन

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त्याग और समर्पण की अनूठी मिसाल 'एकलव्य से संवाद'

अनुज लुगुन किवता के क्षेत्र में एक नया आदिवासी नाम है। 10 जनवरी, 1986 को जन्मे अनुज लुगुन मुंडा समुदाय से आते हैं। उन्होंने 2007 में रांची विश्वविद्यालय से स्नातक करने के बाद एम. ए. किया। उनकी रचनाएँ आदिवासी जीवन पर आधारित हैं। उनके काव्य में आदिवासी जीवन के दर्शन होते हैं। वर्तमान में वे दक्षिण बिहार केंद्रीय विश्वविद्यालय में हिंदी अध्यापक हैं। उनको जल, जंगल और जमीन का किव माना जाता है। उन्होंने लघुकथाएँ, उपन्यास, निबंध और किवताएँ लिखी। लेकिन उनकी पहचान किवताओं से बनी हैं। उन्होंने अपनी किवताओं में प्रेम, स्वतंत्रता, आदिवासी जीवन और क्रांति को विषय बनाया हैं। प्रसिद्ध साहित्यकार महादेव टोप्पो ने अनुज लुगुन के बारे में कहा कि उनकी किवताओं में आदिवासी मुद्दों को, आदिवासी जीवन की विडंबनाओं और त्रासदियों और उनके दुख तकलीफों से हिंदी पाठकों को सशक्त ढंग से परिचित कराया हैं। उनके कारण युवा हिंदी पाठकों की रुचि आदिवासी साहित्य में बढी हैं।

एक युवा किव के रूप में अनुज लुगुन के किव-कर्म और जीवन-कर्म में कभी कोई फाँक नहीं रही। उनके बीच हमेशा एक सहज साधर्म्य भाव ही रहा। उनकी किवताएँ ऐसे तमाम स्खलनों का चाहे वे राजनैतिक हो या सामाजिक, आर्थिक हो या साहित्यिक एक प्रतिपक्ष रखती हैं। अनुज लुगुन की किवताएँ प्रतिपक्ष की किवताएँ हैं और जो प्रतिपक्ष का किव होगा वह किसी न किसी का पक्षधर भी होगा। वे सत्ता के कई रुपों (राजनीति से लेकर पितृसत्ता तक) की सूक्ष्म समीक्षा करते हैं। समय के साथ उनकी किवताओं में यह बोध और भी अधिक तीखा और मर्मभेदी होता गया हैं। उनकी साहित्य सेवा के लिये वह अनेक पुरस्कारों से सम्मानित है, जिनमें मुक्तिबोध राष्ट्रीय काव्य सम्मान (2009), भारत भूषण अग्रवाल सम्मान (2011), युवा साहित्य अकादमी पुरस्कार (2019) आदि उल्लेखनीय हैं।

एकलव्य की कथा सुनकर किव हमेशा उधेडबुन में रहे हैं कि द्रोणाचार्य को अँगूठा दान करने के बाद उसकी तीरंदाजी कहाँ गई? क्या वह उसी तरह का तीरंदाज बना रहा या उसने तीरंदाजी ही छोड दी? उसकी परंपरा का विकास आगे होता है या नहीं? इसके आगे की कथा का जिक्र किव ने कहीं नहीं सुना। लेकिन अब जब किव कुछ समझने लगे हैं तो महसूस करते हैं कि रगों में संचरित कला किसी दुर्घटना के बाद

20 / हिंदी साहित्य और भाषा : एक विवेचन

यशोगान हुआ। उनकी पहचान केवल उनका वह समुदाय है, जो आज भी धनुष कौशल के साथ आत्मरक्षा करता है। जिसमें स्त्रियाँ भी हैं।

एकलब्य तुम्हारा जिक्र महज महाभारत में अर्जुन और द्रोणाचार्य के प्रसंग तक सिमट कर रह गया। फिर अचानक तुम्हारे पदिचन्ह गायब हो गये... अर्थात् तुम्हारा अस्तित्व गुम हो गया है। शायद यही तो चाहा था द्रोण ने। जो लिखा भी गया कुछ तो उसके शब्द तुम्हारा प्रस्तुतिकरण उचित ढंग से नहीं कर पाए। तुम्हारे त्याग और समर्पण के शोषण की पीडा सल रही है। अत: हे एकलव्य! अब जब भी इस संसार में आओ तो तुम द्रोण को अपना गुरू न बनाना। (यहाँ द्रोण जैसे गुरू के प्रति अश्रद्धा का भाव है, आगे एक अर्थ और निकलता है कि इंसानी फितरत दगाबाजी की है) अत: उन पर भरोसा मत करना। हमारे जंगली मित्र शेर, बाघ, हिरन तथा पेड आदि हैं। जंगली जीव अच्छे हैं। ये हमारे उत्तम गुरू हैं।

आधार ग्रंथ :-

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डॉ. शेख ऐनूर. एस. अध्यक्ष, हिंदी विभाग, कला, वाणिज्य व विज्ञान महाविद्यालय, राहता, जिला - अहमदनगर

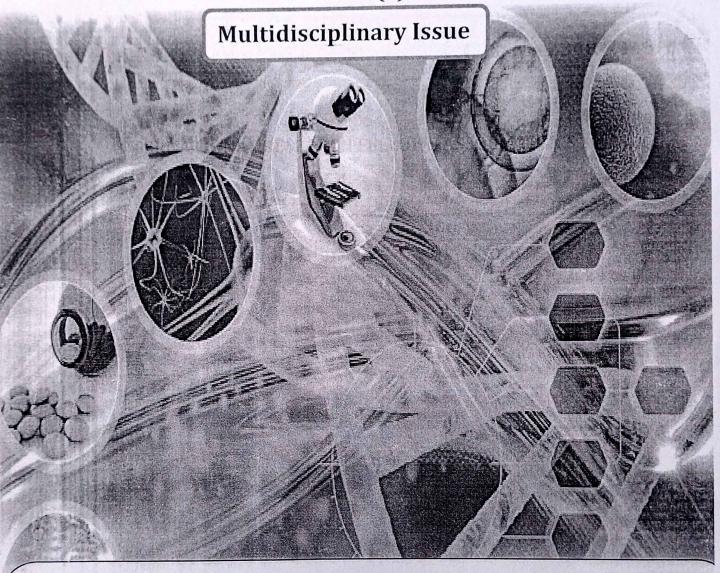
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संचार माध्यमों की भाषा हिंदी

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प्रस्तावना:

वर्तमान युग जनसंचार और तकनीकी युग है और इस जनसंचार के जितने भी साधन उपलब्ध है उन सभी में अपनी भाषा हिंदी को ही अपनाया है। अत: हिंदी जन-जन की भाषा है। इसे जन-जन की भाषा बनाने में संचार माध्यमों का स्थान महत्वपूर्ण है। संचार एक ऐसी शक्ति है, जो पुरे विश्व को एक क्लिक पर जोडने की क्षमता रखती है। उसने संपूर्ण दुनिया को छोटी बनाकर मुठ्ठी में बंद कर दिया है।

संचार की प्रक्रिया की मनुष्य जन्म के साथ ही आरंभ होती है। संचार एक अत्यंत व्यापक अवधारण है। प्राचीनकाल से आज तक मानव संचार के कारण जूडा है। विभिन्न क्षेत्र में सूचनाएँ प्रेषित करने का कार्य भी संचार के माध्यम से पुरा होता है। इस से बेहतर यह काम संचार के विभिन्न माध्यमों द्वारा किया जाता है।

जनसंचार का अर्थ:

जिन माध्यमों के द्वारा किसी सूचना विचार या मनोरंजन सामग्रियों को लोगों या समाज तक ले जाया जाता है, उन्हें जनसंचार माध्यम कहा जाता है। भारत देश में जनसंचार माध्यमों का जाल सारी दिशाओं मे फैला हुआ है। दुनिया के किसी भी कोने में घटित घटना को कुछ ही पल में लोगों के सामने पहुँचाने का काम जनसंचार माध्यम कर रहे है। संचार से तात्पर्य है - व्यक्ति के भाव, विचारों को दूसरों तक संप्रेषित करना। यह संप्रेषण जिन माध्यमों से होता है उन्हें जनसंचार माध्यम कहा जाता है।

जनसंचार माध्यम में संचार शब्द की उत्पत्ति संस्कृत के 'चर'धातु से हुई हैं, जिसका अर्थ है चलना। आज का युग सूचना, संचार तथा विचार का युग है। जिस प्रकार साहित्य समाज का दर्पण है। संचार मनुष्य के जीवन की प्रथम आवश्यकता है। संचार शब्द की उत्पत्ति लैटिन शब्द के कम्युनिको से हुई है। जिसका अर्थ है, किसी वस्तु या विषय का सबके लिए साझेदारी। दूसरे शब्दों में संचार का अर्थ है, किसी बात को आगे बढाना, चलना या फैलाना। ज्ञान की बातों, भावनाओं, विचारों एवं सूचनाओं के आपस में आगत-निर्गत की प्रक्रिया को संचार कहते है।

जनसंचार का महत्त्व:

जनसंचार एक सहज प्रवृत्ति है। आधुनिक जनजीवन, सांस्कृतिक, आर्थिक, सामाजिक व्यवस्था का तानाबाना जनसंचार या मीडिया के द्वारा व्यवस्थित रुप में प्रस्तुत करना संभव हुआ है। इसलिए जनसंचार के माध्यम जनता, समाज, राष्ट्र के सहज रक्षक हैं, तथा समाज राष्ट्र की उन्नति के साधन है। जनसंचार में असभ्य को सभ्य, संकीर्ण को उदार तथा नर को नारायण करने की अद्भुत शक्ति है, इससे मानव की गरिमा का साक्षात्कार होता है। शिक्षा के प्रसार, जन-जागरण तथा संचार माध्यमों की उपलब्धता ने मानव को सक्षम बना दिया है। समाज के विकास में जनसंचार का बहुत बडा योगदान है। संचार माध्यम मानव जीवन का महत्त्वपूर्ण अंग बन गया है।

आज सूचना प्रौद्योगिकी युग में भाषा की अपनी अहम भूमिका है। आधुनिक जनसंचार माध्यमों, पत्र पत्रिका, आकाशवाणी, दूरदर्शन, सिनेमा, संगणक, इंटरनेट आदि के जरिये गीत गजल, कविता, भाषण, प्रवचन, Maharana Pratapsinh Shikshan Sanstha, Mumbai's

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Research Methodology in Library Science, Social Sciences and Commerce

Conference Date- 27 May 2021

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ICT and Its Impact on Library and Information Professionals

By
Dr. D. T. Satpute
Librarian
erce College, Rahata

Arts Science & Commerce College, Rahata Tal-Rahata Dist-Ahmednagar PIN-423107

Abstract Information

Information is regarded as an important resource for all human activities. The right information from the right source, to the right user at right time is everybody's right. Information is the product of human brain in action. The simple meaning of information is knowledge, intelligence, facts or data, which can be used, transferred or communicated. Information is the result of experience, observation, interaction and reading. Thus, the information created should be made available to the users. Therefore, there is a need to provide the information to required users at appropriate time. The information requirements of users depend on social, economic, political, scientific, technological and psychological changes appearing in the society from time to time. Therefore the information professionals are required to develop skills in organizing and arranging the information, and provide the same to the needy users.

Information: Meaning & Definition

The simple meaning of information, in a restricted sense, is sensible statement, opinion, fact, concept of idea or an association of statements, opinions or ideas. Information is meaningful data used for decision making.

Information means - knowledge communicated or received concerning a particular fact or **circumstance**; it can also be considered as knowledge gained through study, communication, **research**, **instruction**, etc.

Nature of Information

- Information can be regarded as a near synonym of fact.
- It has a transforming or reinforcing effect on what is known, or believed to be known, by a human being.
- Information is used as an aid to decision-making.
- Information is the freedom of choice one has in selecting a message.
- Information is a necessary piece of something when we are faced with a choice;
 the amount required depends upon the complexity of decision to be made.
- Information is raw material from which knowledge is derived.
- Information is exchanged with outer world, not merely received.

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पर्यावरणाचेमानवी शरीराव आणि मानवी जीवनावरहोणारे परिणाम प्रा. मते अनिल बापुराव¹ डॉ. कदम संजय भास्कर²

¹इतिहास विभाग, कला, विज्ञान व वाणिज्य महविद्यालय, राहाता, ता राहाता. जि. अहमदनगर, महाराष्ट्र ²मराठी विभाग, कला, विज्ञान व वाणिज्य महविद्यालय, राहाता, ता राहाता. जि. अहमदनगर, महाराष्ट्र प्रस्तावना -

मानवहा भूततलावावरील सर्वश्रेष्ठ आणि बुध्दीमान प्राणी म्हणून ओळखला जातो. हाच मानव अप्रगत किंवा रानटी अवस्थेत असतांना निसर्गातील वनस्पती, कंदमूळे, फळे, व प्राण्याची शिकार करुन आपली उपजिवीका त्या काळात मानवाने भागविल्याचे दिसून आले आहे. म्हणजे मानवाची जेव्हा उत्पत्ती झाली तेव्हा पासूनच मानवाचा पर्यावरणाशी संबंध झालेला आहे. म्हणजे मानवाने फार पूर्वीपासून निसर्गाचा उपयोग करून घेतला होता. म्हणूनच सन १८८२ मध्ये फ्रिडरिश राटत्सेल यांच्या ॲन्थ्रोपोजिऑग्राफी ग्रंथात म्हटले आहे की "मानवी समानाच्या इतिहासावर भौगोलिक पर्यावरणाच्या प्रभावाचे दिगदर्शन केले होते. यातूनच खऱ्या अर्थाने मानव केंद्रस्थानी मानला गेला. त्यामुळेच मानव व नैसर्गिक पर्यावरण यांचयात कार्यात्मक संबंध (Functional Relationship) निर्माण झाले. म्हणजे मानवाचा पर्यावरणाशी चांगल्या प्रकारे संबंध निर्माण झाला. त्याचा परिणाम मानवी जीवनावरती व शरिरावरती होऊ लागला. पर्यावरणाचे महत्व मानवी जीवनात वाढल्याने मानवाने फार मोठ्या प्रमाणात विकास केला त्यामुळेच अनेक गोष्टींचा शोध लागल्यामूळे विज्ञान व तंत्रज्ञानाच्या बळावरती पर्यावरणातील अनेक घटकांचा फायदा मानवाला कशा प्रकारे होतो. त्यातूनच मानवावरती व शरिरावरती पर्यावरणशास्त्राचे काय परिणाम होतात त्या दृष्टीकोणातूनच आपण अभ्यास करणार आहोत. पर्यावरण व मानव यांचा फार जवळचा संबंध आहे. डॅनियल चिरास म्हणतात की, "पर्यावरणातील जैविक (सजीव) व अजैविक (निर्जीव) घटकातील परस्पर क्रियांचा अभ्यास करणारे शास्त्र म्हणजे पर्यावरणशास्त्र होय" "Environment refers to the sum total of condition which surrounded man at a given point in space and time" म्हणजे पर्यावरणाचा व मानवाचा फार जवळचा संबंध आहे. त्यामूळेच पर्यावरणाचे परिणाम मानवी जीवनावर व शरिरावर होतात.

- * ध्येय व उद्दिष्टये :-
- १) पर्यावरणाचा मानवी जीवनावरती कसे परिणाम होतात ते स्पष्ट करणे.
- २) पर्यावरणाचा मानवी शरिरावरती कसे परिणाम होतात ते स्पष्ट करणे.
- ३) पर्यावरणामुळे मानवावरती व शरिरावरती कोण कोणते बदल होतात ते स्पष्ट करणे
- * गृहितके :-
- १) पर्यावरणामूळेच मानवी जीवनावरती बदल झाले.
- २) पर्यावरणामूळे मानवी शरिरावरती ही बदल होतात.
- ३) पर्यावरण या घटकामूळे मानवी जीवनात आणि शरिरावरती निश्चित बदल होतात.
- * विश्लेषण :-

पर्यावरणाला आजच्या युगात अनन्यसाधारण महत्व प्राप्त झाले आहे त्यामूळे मानवाने फार पुर्वीपासुन पर्यावरणाची जपवणुक केली होती. त्याचे फायदे मानवी जीवनावरती, शरिरावरती, हवामानावरती झाल्याचे दिसुन येते. म्हणुनच नैसर्गिक पर्यावरणाला महत्व प्राप्त झाले आहे. खऱ्या अर्थाने पर्यावरणाचे दोन प्रकार पडतात. एक म्हणजे नैसर्गिक पर्यावरण (Natural Environment) आणि दुसरे म्हणजे मानव निर्मित किंवा सांस्कृतिक पर्यावरण (Manmade or Cultural Environment) म्हणजे पर्यावरणाचा निसर्ग आणि मानव

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पर्यावरणाचे मानवी शरीराव आणि मानवी जीवनावर होणारे परिणाम प्रा. मते अनिल बापुराव¹ ड<mark>ॉ. कदम संजय भास्कर²</mark>

¹इतिहास विभाग, कला, विज्ञान व वाणिज्य महिवद्यालय, राहाता, ता राहाता. जि. अहमदनगर, महाराष्ट्र ²मराठी विभाग, कला, विज्ञान व वाणिज्य महिवद्यालय, राहाता, ता राहाता. जि. अहमदनगर, महाराष्ट्र प्रस्तावना -

मानवहा भूततलावावरील सर्वश्रेष्ठ आणि बुध्दीमान प्राणी म्हणून ओळखला जातो. हाच मानव अप्रगत किंवा रानटी अवस्थेत असतांना निसर्गातील वनस्पती, कंदमूळे, फळे, व प्राण्याची शिकार करुन आपली उपजिवीका त्या काळात मानवाने भागविल्याचे दिसून आले आहे. म्हणजे मानवाची जेव्हा उत्पत्ती झाली तेव्हा पासूनच मानवाचा पर्यावरणाशी संबंध झालेला आहे. म्हणजे मानवाने फार पूर्वीपासून निसर्गाचा उपयोग करून घेतला होता. म्हणूनच सन १८८२ मध्ये फ्रिडरिश राटत्सेल यांच्या ॲन्थ्रोपोजिऑग्राफी ग्रंथात म्हटले आहे की "मानवी समानाच्या इतिहासावर भौगोलिक पर्यावरणाच्या प्रभावाचे दिगदर्शन केले होते. यातूनच खऱ्या अर्थाने मानव केंद्रस्थानी मानला गेला. त्यामुळेच मानव व नैसर्गिक पर्यावरण यांचयात कार्यात्मक संबंध (Functional Relationship) निर्माण झाले. म्हणजे मानवाचा पर्यावरणाशी चांगल्या प्रकारे संबंध निर्माण झाला. त्याचा परिणाम मानवी जीवनावरती व शरिरावरती होऊ लागला. पर्यावरणाचे महत्व मानवी जीवनात वाढल्याने मानवाने फार मोठ्या प्रमाणात विकास केला त्यामुळेच अनेक गोष्टींचा शोध लागल्यामूळे विज्ञान व तंत्रज्ञानाच्या बळावरती पर्यावरणातील अनेक घटकांचा फायदा मानवाला कशा प्रकारे होतो. त्यातूनच मानवावरती व शरिरावरती पर्यावरणशास्त्राचे काय परिणाम होतात त्या दृष्टीकोणातूनच आपण अभ्यास करणार आहोत. पर्यावरण व मानव यांचा फार जवळचा संबंध आहे. डॅनियल चिरास म्हणतात की, "पर्यावरणातील जैविक (सजीव) व अजैविक (निर्जीव) घटकातील परस्पर क्रियांचा अभ्यास करणारे शास्त्र म्हणजे पर्यावरणशास्त्र होय" "Environment refers to the sum total of condition which surrounded man at a given point in space and time" म्हणजे पर्यावरणाचा व मानवाचा फार जवळचा संबंध आहे. त्यामूळेच पर्यावरणाचे परिणाम मानवी जीवनावर व शरिरावर होतात.

- * ध्येय व उद्दिष्टये :-
- १) पर्यावरणाचा मानवी जीवनावरती कसे परिणाम होतात ते स्पष्ट करणे.
- २) पर्यावरणाचा मानवी शरिरावरती कसे परिणाम होतात ते स्पष्ट करणे.
- ३) पर्यावरणामुळे मानवावरती व शरिरावरती कोण कोणते बदल होतात ते स्पष्ट करणे
- * गृहितके :-
- १) पर्यावरणामूळेच मानवी जीवनावरती बदल झाले.
- २) पर्यावरणामूळे मानवी शरिरावरती ही बदल होतात.
- ३) पर्यावरण या घटकामूळे मानवी जीवनात आणि शरिरावरती निश्चित बदल होतात.
- * विश्लेषण :-

पर्यावरणाला आजच्या युगात अनन्यसाधारण महत्व प्राप्त झाले आहे त्यामूळे मानवाने फार पुर्वीपासुन पर्यावरणाची जपवणुक केली होती. त्याचे फायदे मानवी जीवनावरती, शरिरावरती, हवामानावरती झाल्याचे दिसुन येते. म्हणुनच नैसर्गिक पर्यावरणाला महत्व प्राप्त झाले आहे. खऱ्या अर्थाने पर्यावरणाचे दोन प्रकार पडतात. एक म्हणजे नैसर्गिक पर्यावरण (Natural Environment) आणि दुसरे म्हणजे मानव निर्मित किंवा सांस्कृतिक पर्यावरण (Manmade or Cultural Environment) म्हणजे पर्यावरणाचा निसर्ग आणि मानव

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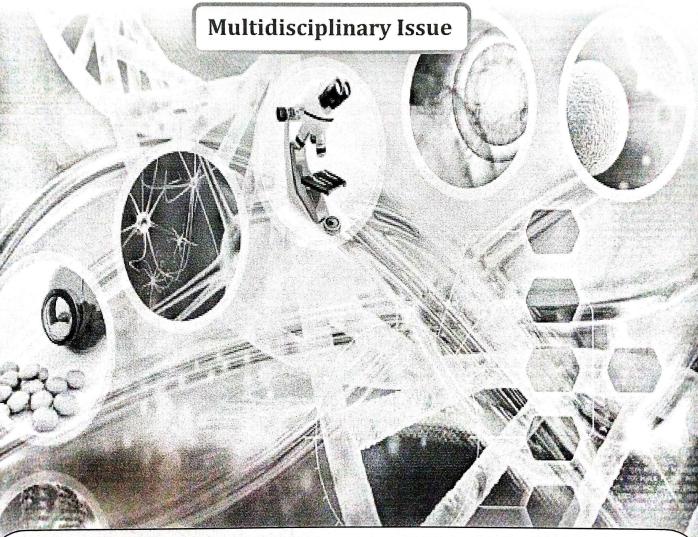
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Open Educational Resources

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Abstract:

The open educational resources initiative has been underway for over a decade now and higher education institutions are slowly adopting open educational resources (OER). The use and creation of OER are important aspects of adoption and both are needed for the benefits of OER to be fully realized Open Educational Resources (OERs) are teaching learning, and research resources that have been made available such that they can be used, shared, and modified freely. They have already had a significant impact on Higher Education (HE), and have great potential for providing further positive transformation. However, OER adoption has not been universal, with several obstacles and barriers still hindering its wider influence.

Keyword: OER, Free Online Resources, Creative Commons, Digital Literacy

Introduction:

Open Educational Resources (OER) are teaching, learning and research materials in any medium – digital or otherwise – that reside in the public domain or have been released under an open license that permits no-cost access, use, adaptation and redistribution by others with no or limited restrictions. Open Educational Resources (OERs) are any type of educational materials that are in the public domain. They are published under open licenses (i.e. Creative Commons) that specify how materials can be used, reused, adapted, shared and modified according to specific needs. They can include textbooks, lecture notes, syllabi, assignments and tests. Open educational resources are innovative not just because they are free, but because of how teachers adopt and creatively adapt them, bringing them to life in the classroom in order to reach every student. The open education movement was originally inspired by the open source community, with a focus on broadening access to information through the use of free, open content. As Bliss and Smith explain in their breakdown of the history of open education

"Much of our attention focused on OER's usefulness at providing knowledge in its original form to those who otherwise might not have access. The implicit goal was to equalize access to disadvantaged and advantaged peoples of the world – in MIT's language, to create 'a shared intellectual Common.'

"Open Educational Resources are teaching, learning and research materials in any medium – digital or otherwise – that reside in the public domain or have been released under an open license that permits no-cost access, use, adaptation and redistribution by others with no or limited restrictions."

Possibilities of Open Educational Resources

- 1. **Retain** the right to make, own, and control copies of the content (e.g., download, duplicate, store, and manage)
- 2. Reuse the right to use the content in a wide range of ways (e.g., in a class, in a study group, on a website, in a video)

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Analysis of Soil Charecteristic of Rahuri Tahsil In Ahmednagar District (Maharashtra)

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Introduction:

Ahmednagar district as far as the extension is concern this Rahuri tahsil is on No. 8th Position. The total geographical area of Rahuri tahsil is 101617 hectare. This tahsil have 98 villages, in which 64 villages are having irrigation and remaining 34 villages are totally depends on Monsoon rainfall. River Mula flows from middle part to the south. MulaDam is built at village Baragaon-Nandur on 1971 on this River According to census 2011, the total population of the tahsil is recorded 322823. The land of this area is made up from the basalt rock. Therefore, black cotton soils is playing an important role in the agricultural development. Study of soil characteristic is important to know the ratio of different chemical and physical factors. Productivity of soil is possible when the physical and chemical characteristic are found in sufficient scale in the soil. These factors are changing with the geographical features, 50 % part of our soil is fill by geographical features, soilis covered by various minerals, 5 % Organic Carb, 25 % of Water and 25 % air is found in the soil respectively. Soil is an important aspect which is enrich in p11 (Potation of Hydrogen), EC (Electric conductivity), OC (Organic carb). Aluminium, Ferrous, Nitrogen, Potassium, Phosphorus, CaCo3, Sulphur, Zine, Manganese and copper etc.

Objective of the Investigation

- 1. To Study the geographical condition of the study area.
- 2. To study the various soil characteristic in the study area.

Hypothesis:

The hypotheses are in fact, the basis on which total research based. Hypotheses are the reality and fact that to present in the study area. Without hypotheses no orderly conclusion may be resulting and no research plan can be formulated.

- 1. Soil analysis helps to more production of any crop in the study area.
- 2. Water and fertilizers supply depends on soil situation.

Scope and Utility of The Study:

The study would be useful for the policy makers in planning and formulating different crop production. It would also be useful to the modern irrigation methodology and awareness between the farmers in the tahsil. The finding of the study would be thus helpful to formulate and implement any crop development policy in Maharashtra.

Sources of Data:

- 1. Primary Data Sources: The primary data is collected from farmer's interview, questionnaire, field work and their sugarcane farms in the study area.
- **2. Secondary Data**: The secondary data collection by various books. Research Journala, Reports and Articles. Govt. departments record ect. The secondary data concerning irrigation, land use, cropping patternand sugarcane were personally collected from the revenue records available at the tahsil headquarter and Village's.

Methodology:

Techniques and Software: Statistical and Cartographic techniques have been used for showing the relationship in soil. The computer techniques have been used to analysis of the , questioners and soil analysisdata.

1. Sample Techniques:

The sample is very important for analysis any study. Rahuri tahsil there are 98 villages distributed in seven division but selection of all villages is not possible. So 21 (20 %) villages and 420 210 from drip and same numbers of farmer from flood methods farmers are selected only.

2. Cartographic Technique:

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Impact of Environment on Agriculture, Health, Water Resources, Social Life & Industrial Development

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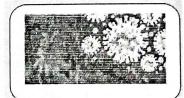
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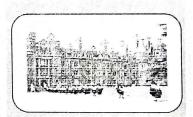


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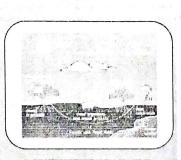








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Geographical Analysis of Drip Irrigation Methods in Rahuri Tahsil of Ahmednagar District (Maharashtra)

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Introduction

Water is important factor which is basic needs for crop growth and production. Considering Indian economy, which is based on agriculture require more irrigation facility for agriculture production. The rainfall is the main source of receiving water for land. Surface and ground water is used by various irrigation methods. In India, the irrigated area consist of about 36 percent of the net sown area. Present situation 83 percent of water is directly used for agriculture. Irrigation in India is carried on through wells, tanks, canals, perennial canal, multipurpose river valley projects, etc. Present study selected Rahuri tahsil. Rahuri is located at 19" 15 to 19" 30' North latitude and 74" 15 to 74" 30 East longitude, in the north eastern part of Ahmedragar district, Maharashtra (India). It has a length of about 35 k.m. from north to south and 28 k.m. from west to east and covers to an area of 1022.12 Sq.k.ms.(101616 hect.) According to 2011 census the population of this tabsil is about 3, 25,932 with an average population density of 288. In study area, the water level is found at high depth so farmers uses well. The depth of well is generally 50 to 100 feet. Western part of the study area is a plateau so some restrictions is found. Well irrigation covered as 3 to 4 hectare area under irrigation. The villages which are situated on banks of River Mula and Pravara, the number of wells is found large compare to unirrigated area in tahsil.

Hypothesis: Drip method is modern technique who helped always increasing the production of sugarcane and saved water, fertilizers, electricity and valuable time of farmers.

2. Use of modern techniques is basic needs for agriculture specially cash crops.

Objective:

- 1. To Understand the Geographical Situation in study area.
- To study the drip methods of irrigation used by farmers in the study area. Suggest the Planning Strategy for agriculture

Drip Irrigation Methods

Drip irrigation is a scientific and modern method of water supply for irrigation. This method was discovered by Israel scientists. The continuous pressure and less water discharge are provided by inline and online systems with consider land, and crops. The application of water is slowly.

Among all the irrigation methods, the drip irrigation is the most efficient and it can be used in a large variety of crops, specially Sugarcane, vegetable, flowers and fruits crops. In this method water as per the crop applied near the plant root through drippers, at a low rate varying from 2-20 litters per hour. Application of this method in sugarcane cultivation is very important. The drip system was developed by Israel in the early 1960s. The area under this methods of irrigation in the USA is highest followed by India, Spain and Israel, etc. The state Govt. of Maharashtra has first time implemented this methods for sugarcane farmers from the year 2006-07. Farmers get some amount as subsidy from Govt and technically support by provide various companies. In the beginning the scheme very less number of farmers adopted it for their sugarcane cultivation. Last ten years there is irregular in the monsoon, so it is necessary drip irrigation for sugarcane.

The Study Of Population Characteristics In Rahuri Tahsil Of Ahmednagar District (Maharashtra)

Dr. D. M. Nalage

Asst. Prof& Head, Dept. Of Geography,

Arts, Science And Commerce Collegerahata, Dist: Ahmednagar(Maharashtra)

INTRODUCTION:

Demography study is very important to find out strategy of the any area. Demography is the statistical description and analysis of human population. Study of population seeks to discover the causes and consequences of population change. Present study we workout the population structure of Rahuri tahsil. Study is important because it is focused various aspect of population in Rahuri tahsil.

GEOGRAPHICAL LOCATION:

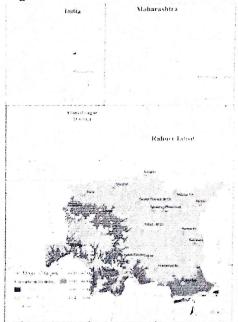
Rahuri is located at 19° 15' to 19° 30' North latitude and 74° 15' to 74° 30' East longitude, in the north eastern part of Ahmednagar district, Maharashtra (India). Rahuri tahsil is bounded by Rahata tahsil on the north, Nagar tahsil on the south, Newasa on the east and Sangamner and Parner tahsil on the west, of the same district. It is well connected by roads to Mumbai (240 k.m.), Pune (140 k.m.), Aurangabad (120 k.m.) and the district headquarter Ahmednagar (37 k.m.). It is connected by broad gauge railway to the above places as it falls on Manmad-Dound route. The nearest airport is at Aurangabad (120 k.m.), which is linked to Mumbai. Pune is another airport) 160 K.M.(located close by. Saibaba international airport Shirdi is newly established (2017) by the state Government near Shirdi which is hardly 50 km. from Rahuri.

HYPOTHESIS:

The study of Population is help to find out planning strategy and overall development of the study area.

OBJECTIVE:

- 1. To study the characteristic of Population of Rahuri tahsil
- 2. To study the changes in population growth and other characteristic of Rahuri tahsil



MAP 1 LOCATION MAP OF STUDY AREA

5. Population Growth Rate

The growth of population of any area is an index of increase or decrease in houses and settlement. The growth of population is related economic and social development of its higher than population is increase very high. Population change dependent on the Birth rate and Death rate. This causes is directly affected of population growth. Migration is an indirectly effected on population growth because not a change internal population growth. The population growth rate to effect on population density, sex ratio and occupation structure will change. Population is one of the important elements and responsible for overall regional

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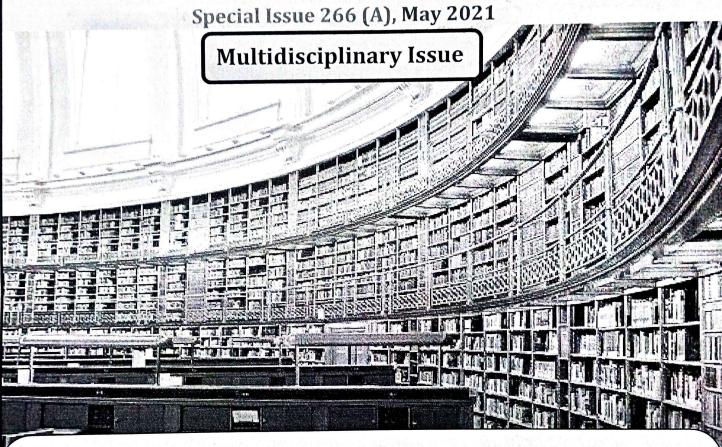
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Role of Librarian in the Electronic Teaching & Electronic Learning

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Abstract:

Library and librarian will become redundant in the tech-based education system. Some may thinks that library without wall and library without librarian are the same. Practically these two are quite different from each other. In the virtual library era it is somehow possible to have a library without wall. The role of the librarian and library professional just changes their identity, e.g. Cybrarian, Information Processor, Information Consultant, etc. To cope with the rapid changes of the technology and to control the ephemeral rate of information generation, librarians along with his professional colleagues should have to equip themselves as per the requirement of the electronic information society. In the light of the above, the present paper would like to highlight the reasons why library and librarian is essential in the modern technology based library service era. The paper also tries to point out the role of the librarian in the changing society, services offered by the e-library, e-learning and issues faced by the librarian.

Keywords: Traditional Library, Virtual Library, Digital Library, Technology and Education, Internet, Digitization, Librarian, Cybrarian.

Introduction:

The nature of the academic library and the role they play in campus is changing. Libraries are moving towards an information commons model of service, and becoming campus community centers. They invite student and faculty socialization, learning, research, scholarship and instruction. They are most effective when programming, services, and spaces are developed in partnership with others seeking similar educational outcomes. Academic libraries will increasingly provide information and services to their users at right time as per their requirement. Whatever the changes, the traditional roles of a library in an academic community, especially those communities that aren't changing substantially themselves, will remain valid and important to a successful college or university.

Virtual library Environment:

The concept of the virtual library is one that has developed with the growth in telecommunication networks, especially the Internet. The 'virtual library' emulates a 'real' library, but is understood to be a product of the virtual world of the Internet. A digital library possesses the same functions and goals of the traditional print-based library and that the difference lies in 'the digital part of the term which indicates merely that the material is stored and accessed digitally'. Comprehensive definition of the digital library is provided by the Digital Library Federation (1999) in the United States: Organizations that provide the resources, including the specialized staff, to select, structure, offer intellectual access to, interpret, distribute, preserve the integrity of, and ensure the persistence over time of collections of digital

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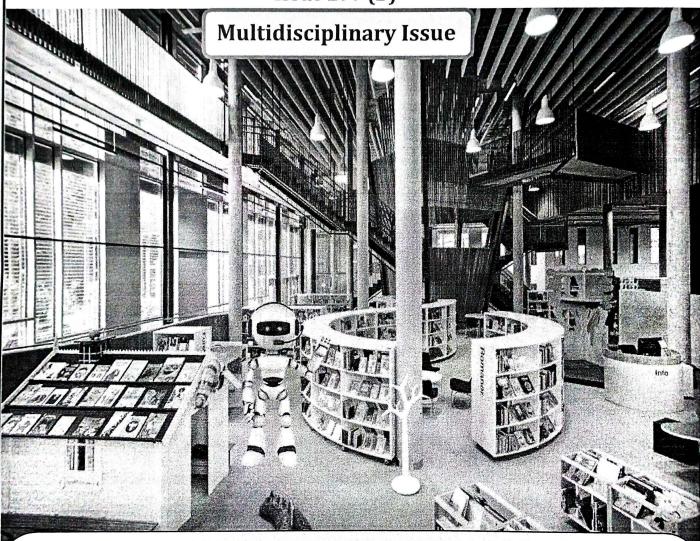
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Total Quality Management in Libraries

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Abstract:

Total Quality Management like meaning, definition; preparation to achieve quality, how quality improves, quality improvement, customer satisfaction, implementation in the library and information sectors, the experiences of libraries adopting this method are also reviewed. TQM is an approach for continuously improving the quality of library facilities and services delivered through all, kinds of libraries. Library is a growing organism. Collection development, circulation etc. are the important parts of the library. This paper discusses the effective library services with quality management.

Keywors: Total Quality Management (TQM), Library and Information Service, Library services.

Introduction:

Total Quality Management (TQM) is a concept created by W. Edwards Deming. It was originally introduced in Japan after World War II to assist the Japanese in re-building their economy. The main focus of TQM was and is continuous quality improvement in the areas of product or service, employer-employee relations and consumer-business relations. Total Quality Management is a management approach that originated in the 1950s and has steadily become more popular since the early 1980s. Total Quality is a description of the culture, attitude and organization of a company that strives to provide customers with products and services that satisfy their needs. The culture requires quality in all aspects of the company's operations, with processes being done right for the first time to eradicate defects waste from operations. Total Quality Management is a method by which management and employees can become involved in the continuous improvement of the production of goods and services. It is a combination of quality and management tools aimed at increasing the business and reducing losses due to wasteful practices. The quality of a library is defined and assessed from a perspective of different groups of people. Moreover, the quality of library services decides on the perception of the library within its parent organization

Total Quality Management:

ISO defined TQM as "A management approach of an organization centered on quality, based on participation of all its members and aiming at long term benefits to all members of the organization and society."

TQM is "a system of continuous improvement employing participative management and centered on the needs of customers" (Jurow and Barnard, 1993).

There are a broad range of definitions of TQM, some examples are as follows:

• TQM is an integrated, corporately led programme of organizational change designed to engender and sustain a culture of continuous improvement based on customer oriented definitions of quality (Kanaji, 1990).

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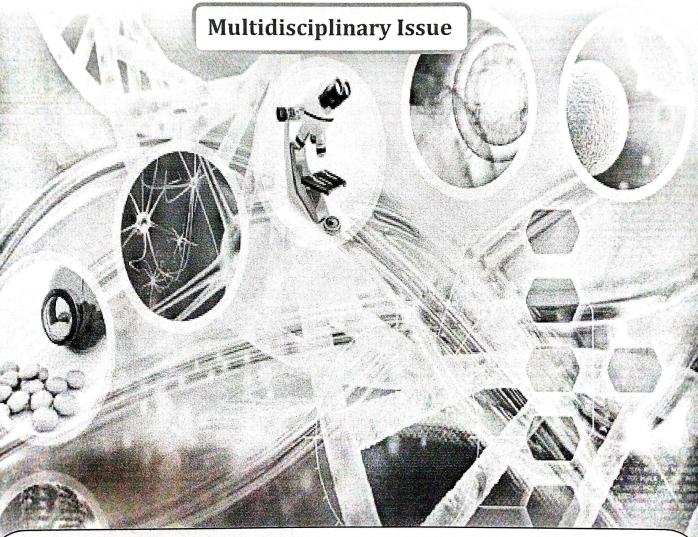
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Issue 279 (B)



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Open Educational Resources

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Abstract:

The open educational resources initiative has been underway for over a decade now and higher education institutions are slowly adopting open educational resources (OER). The use and creation of OER are important aspects of adoption and both are needed for the benefits of OER to be fully realized Open Educational Resources (OERs) are teaching learning, and research resources that have been made available such that they can be used, shared, and modified freely. They have already had a significant impact on Higher Education (HE), and have great potential for providing further positive transformation. However, OER adoption has not been universal, with several obstacles and barriers still hindering its wider influence.

Keyword: OER, Free Online Resources, Creative Commons, Digital Literacy

Introduction:

Open Educational Resources (OER) are teaching, learning and research materials in any medium – digital or otherwise – that reside in the public domain or have been released under an open license that permits no-cost access, use, adaptation and redistribution by others with no or limited restrictions. Open Educational Resources (OERs) are any type of educational materials that are in the public domain. They are published under open licenses (i.e. Creative Commons) that specify how materials can be used, reused, adapted, shared and modified according to specific needs. They can include textbooks, lecture notes, syllabi, assignments and tests. Open educational resources are innovative not just because they are free, but because of how teachers adopt and creatively adapt them, bringing them to life in the classroom in order to reach every student. The open education movement was originally inspired by the open source community, with a focus on broadening access to information through the use of free, open content. As Bliss and Smith explain in their breakdown of the history of open education

"Much of our attention focused on OER's usefulness at providing knowledge in its original form to those who otherwise might not have access. The implicit goal was to equalize access to disadvantaged and advantaged peoples of the world – in MIT's language, to create 'a shared intellectual Common.'

"Open Educational Resources are teaching, learning and research materials in any medium – digital or otherwise – that reside in the public domain or have been released under an open license that permits no-cost access, use, adaptation and redistribution by others with no or limited restrictions."

Possibilities of Open Educational Resources

- 1. **Retain** the right to make, own, and control copies of the content (e.g., download, duplicate, store, and manage)
- 2. Reuse the right to use the content in a wide range of ways (e.g., in a class, in a study group, on a website, in a video)