



**D.P. VIPRA COLLEGE
BILASPUR**
ACCREDITED "A" GRADE BY NAAC

2023-24

D.P. Vipra College

Old High Court Road, Bilaspur

Chhattisgarh, India 495001



**D.P. VIPRA COLLEGE
BILASPUR**
ACCREDITED "A" GRADE BY NAAC

3.3.3

Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

D.P. Vipra College

Old High Court Road, Bilaspur
Chhattisgarh, India 495001



OFFICE OF THE PRINCIPAL

D. P. VIPRA COLLEGE, BILASPUR (C.G.)

Accredited "A" by NAAC, ISO-9001:2015 Certified

Phone No.- 07752-424497, Web. – www.dpvipracollege.in, Email- dpvipracollege@gmail.com


Summary-Sheet


Criteria	3 –Research, Innovation and Extension	
Key Indicator	3.3: Teacher Profile and Quality	
Metric	3.3.3: Number of books and chapters in edited volumes/books published and papers in national/ international conference-proceedings per teacher during the year.	
Total number of books and chapters in edited volumes/ books published and papers in national/ international conference proceedings during the year	Year	2023-24
	Total number of books	52

Note:

Since all supporting documents for this metric exceeds the upload limit of 5Mb, hence we have hosted the scanned documents as per SOP on institutional website on the following links,

Description	Relevant link
1) List of books and chapters in edited volumes/books published in the AY 2023-24 is attached. (Appendix-I)	https://dpvipracollege.ac.in/aqar-2023-24/
2) e-copies of Cover page, content page and first page during the AY 2023-24 is attached. (Appendix-II)	


IQAC Co-ordinator
D.P. Vipra College
BILASPUR (C.G.)
IQAC Coordinator


PRINCIPAL
D.P. Vipra College
Bilaspur (C.G.)
Principal



**D.P. VIPRA COLLEGE
BILASPUR**
ACCREDITED "A" GRADE BY NAAC

Appendix I

D.P. Vipra College

Old High Court Road, Bilaspur

Chhattisgarh, India 495001



D. P. VIPRA COLLEGE, BILASPUR (C.G.)

NAAC ACCREDITED "A" GRADE


PHONE : 07752-424497, E-mail - dpvipracollege@gmail.com

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year 2023-24

2023-24								
Sl. No.	Name of the teacher	Title of the book/ Chapters published	Title of the paper	National / International	Year of publication	ISBN/ ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
1	Dr. Kiran Dubey	Virdh Vimarsh	Virddhavasta ke Kaaran Prakitik Vidhaan	National	2023-24	978-93-91435-40-0	D.P. Vipra College, Bilaspur	Sankalp Publication
2	Dr.Renu Nayar	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Exploring Women's Empowerment in Rural India: An Analysis of Information and Communication Technology (ICT) Initiatives	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
3	Dr.Manish Tiwari	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Exploring Women's Empowerment in Rural India: An Analysis of Information and Communication Technology (ICT) Initiatives	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
4	Dr.Anju Shukla	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Exploring Women's Empowerment in Rural India: An Analysis of Information and Communication Technology (ICT) Initiatives	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
5	Dr.Anju Shukla	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Prachin Bhartiya Samaaj me Paryavaran Sanrakshan Ke Liye Kiye Gye Karya	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
6	Dr.Sushma Sharma	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Manav Paryavaran Sangharsh	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
7	Dr.Renu Nayar	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Integrating Science, Technology & Society In The 21st Century	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
8	Dr.Renu Nayar	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Comaring 21st Century Environmental Science Education Pre-And Post Covid-19 For Global Challenges	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
9	Sunil K	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Comaring 21st Century Environmental Science Education Pre-And Post Covid-19 For Global Challenges	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
10	Dr.Sadhana Shome	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Green Human Resource-Meaning Advantages, Policies and Practices	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
11	Dr. Sadhana Shome	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Vishva Rajneeti me Mahilaon ka Yogdan	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
12	Toshima Mishra	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Climate Change And Its Effects	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
13	Deepak Kashyap	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Climate Change And Its Effects	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
14	Dr.Vivek Ambalkar	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Using Sar Calculation To Investigate The Effects Of Mobile phone Tower Radiation On Human Blood, Muscles And Bone	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
15	Dr.M.L.Jaiswal	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Photo Pollution	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing

16	Dr. Shikha pahare	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Photo Pollution	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
17	Motilal Patle	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Photo Pollution	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
18	Dr. Renu Nayar	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Physico-Chemical Analysis Of Ground water In Nagpur City, Maharashtra, India	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
19	Dr. Renu Nayar	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Safeguarding Water: Harnessing Sensor For Quality Control In Chhattisgarh	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
20	Dr. Manish Tiwari	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Safeguarding Water: Harnessing Sensor For Quality Control In Chhattisgarh	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
21	Shriti Somvashi	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Effects Of Environmental Pollution on Human Health	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
22	Dr. Khagendra Soni	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Green Marketing: Golden Rule & Importance	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
23	A. Sri Ram	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Green Marketing: Golden Rule & Importance	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
24	Dr. Manish Tiwari	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Analysis Of Groundwater Quality And Its Suitability For Drinking Water Quality In Mungeli, District Of Chhattisgarh	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
25	Deepak Tiwari	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Assessment Of Seasonal Changes And Pollution Status Of Rural Lentic Water Bodies (PONDS) In Birkona, Bilaspur City: Implication For Restoration And Management	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
26	Dr. Renu Nayar	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Assessment Of Seasonal Changes And Pollution Status Of Rural Lentic Water Bodies (PONDS) In Birkona, Bilaspur City: Implication For Restoration And Management	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
27	Dr. Renu Nayar	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Assessment Of Physico-Chemical Parameters In Groundwater: A Comparative Study Of Residential And Industrial Areas In Sirgitti, Bilaspur District	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
28	Dr. Richa Handa	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Smart Environmental Monitoring Using IOT Technology	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
29	Dr. Renu Nayar	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Synthesis Of Nanoparticle Of Iron Oxide And Removal Of Heavy Metals By Adsorption	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
30	Dr. Renu Nayar	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Humanity, Technological Evolution And The Environment	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
31	Dr. Shikha pahare	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Importance Of Fungi Human Life	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
32	Dr. M.L. Jaiswal	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Importance Of Fungi Human Life	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing

33	Motilal Patle	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Importance Of Fungi Human Life	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
34	Dr.M.S.Tamboli	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Impact Of Human Activities On The Environment	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
35	Dr.Oorja Ranjan Sinha	Environmental Science For The 21st Century: Integrating Science, Technology & Society	The Transformative Power Of Egdon Heath In Thomas Hardy's "The Return Of the Native"	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
36	pradeep Kumar Jaiswal	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Preparation of Silver Nanoparticles And Their Industrial, Biomedical Applications: And Removal	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
37	Dr.Manish Tiwari	Environmental Science For The 21st Century: Integrating Science, Technology & Society	Preparation of Silver Nanoparticles And Their Industrial, Biomedical Applications: And Removal	National	2023-24	9798223282631	D.P. Vipra College, Bilaspur	International Digital Publishing
38	Dr.Kiran Dubey	Mahila Shasaktikaran		National	2023-24	978-93-93403-14-8	D.P. Vipra College, Bilaspur	Samta Publication
39	Dr.Sushma Sharma	Bholwa Bholaram Banis		National	2023-24	978-93-91435-88-2	D.P. Vipra College, Bilaspur	Sankalp Prakashan
40	Dr.Anju Shukla	Covid-19 ka vyapar aur udhyog prabhav	Corona Ka samaaj avm arthvyastha par prabhav	National	2023-24	978-93-91435-66-0	D.P. Vipra College, Bilaspur	Sankalp Prakashan
41	Dr.M.S.Tamboli	Covid-19 ka vyapar aur udhyog prabhav	Covid-19 ka samajik jivan par prabhav	National	2023-24	978-93-91435-66-0	D.P. Vipra College, Bilaspur	Sankalp Prakashan
42	Dr.Megha Dhabadkar	Covid-19 ka vyapar aur udhyog prabhav	Covid-19 ka udyog aur vapar par prabhav	National	2023-24	978-93-91435-66-0	D.P. Vipra College, Bilaspur	Sankalp Prakashan
43	Dr.Khagendra Soni	Covid-19 ka vyapar aur udhyog prabhav	Effects of Covid-19 on Enterprises and Sectors	National	2023-24	978-93-91435-66-0	D.P. Vipra College, Bilaspur	Sankalp Prakashan
44	Mr.Jayanta Roy	Covid-19 ka vyapar aur udhyog prabhav	Covid-19 and the Indian Economy: Effects on MSME Sector Growth in manufacturing and Trade	National	2023-24	978-93-91435-66-0	D.P. Vipra College, Bilaspur	Sankalp Prakashan
45	Mr.Prakash Chaturvedi	Covid-19 ka vyapar aur udhyog prabhav	Covid-19 and the Indian Economy: Effects on MSME Sector Growth in manufacturing and Trade	National	2023-24	978-93-91435-66-0	D.P. Vipra College, Bilaspur	Sankalp Prakashan
46	A. Sri Ram	Covid-19 ka vyapar aur udhyog prabhav	Impact of Digital payment System during Covid-19 andamic in India	National	2023-25	978-93-91435-66-0	D.P. Vipra College, Bilaspur	Sankalp Prakashan
47	Dr.Bijoy Karmakar	Covid-19 ka vyapar aur udhyog prabhav	Impact of Covid -19 on Telecom Sector in India-A Review	National	2023-26	978-93-91435-66-0	D.P. Vipra College, Bilaspur	Sankalp Prakashan
48	Dr. Richa Handa	C#.NET Code Wizard: A Tour to C#.NET Framework		Self Publication	2023-24	978-93-6013-336-8	D.P. Vipra College, Bilaspur	Self Publication
49	Dr. Richa Handa	Application of Mathematical Modeling, Machine Learning & Intelligent Computing for Industrial Development	Regression Essemble Techniques with technical Indicators for Prediction of Financial Time Series Data	International	2023-24	9781032479293	D.P. Vipra College, Bilaspur	CRC Press
50	Dr. Anju Shukla	Kinnar Vimarsh: Natak ewam Cinema ke Vishesh Sandarbh me	SangharshratKinnar Samaj aur Eitihask Prishthbhum	National	2023-24	9789391435783	D.P. Vipra College, Bilaspur	Sarthak Press
51	Dr. Sushma Sharma	Kinnar Vimarsh: Natak ewam Cinema ke Vishesh Sandarbh me	Hindi Sahitya ke Chhetra me Kinnar	National	2023-25	9789391435784	D.P. Vipra College, Bilaspur	Sarthak Press
52	Kanchi Bajpayee	Kinnar Vimarsh: Natak ewam Cinema ke Vishesh Sandarbh me	Ardhnarishwara: The Lord who is Half Women	National	2023-26	9789391435785	D.P. Vipra College, Bilaspur	Sarthak Press


ATTESTED
Principal
D.P. Vipra College
Bilaspur (C.G.)
D.P. VIPRA COLLEGE
BILASPUR (C.G.)



**D.P. VIPRA COLLEGE
BILASPUR**
ACCREDITED "A" GRADE BY NAAC

Appendix II

D.P. Vipra College

Old High Court Road, Bilaspur

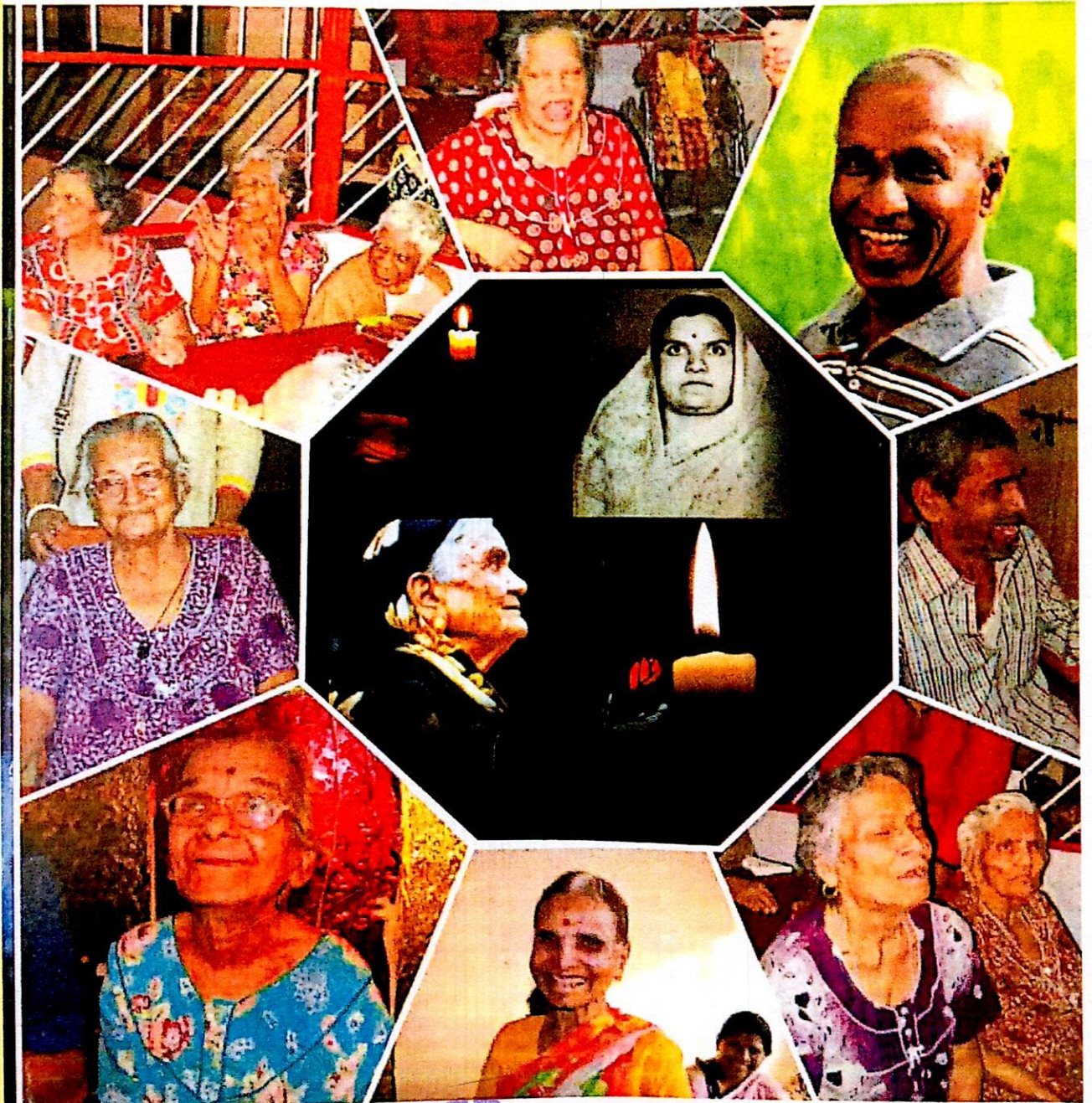
Chhattisgarh, India 495001

वृद्ध विमर्श

परम्परा और आधुनिकता का द्वंद्व

सम्पादक

प्रो. (श्रीमती) ज्योति सूर्यवंशी



ATTESTED

DR. JYOTI SURIYAVANSI
PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)



Scanned with OKEN Scanner

इस पुस्तक के सर्वाधिकार सुरक्षित हैं। प्रकाशक की लिखित अनुमति के बिना इस पुस्तक या इसके किसी भी अंश का किसी भी माध्यम से अथवा ज्ञान के संग्रहण एवं पुनर्प्रयोग की प्रणाली द्वारा, किसी भी रूप में, पुनरुत्पादित अथवा संचारित-प्रसारित नहीं किया जा सकता, इसे संक्षिप्त, परिवर्धित कर प्रकाशित करना कानूनी अपराध है।

ISBN : 978-93-91435-40-0

प्रथम संस्करण, 2023

पुस्तक : वृद्ध विमर्श : परम्परा और आधुनिकता का द्वंद्व

संपादक : प्रो. (श्रीमती) ज्योति सूर्यवंशी

प्रकाशक : संकल्प प्रकाशन

1569/14 नई बस्ती बक्तौरीपुरवा, बृहस्पति मन्दिर, नौबस्ता,
कानपुर (उ.प्र.)-208 021

दूरभाष : 094555-89663, 070077-49872

Email : sankalpprakashankanpur@gmail.com

website : www.sankalpprakashan.com

कॉपीराइट © : संपादक

मूल्य : 350/-

शब्द-सज्जा : रुद्र ग्राफिक्स, हनुमन्त विहार, नौबस्ता, कानपुर-21

आवरण : गौरव शुक्ल, कानपुर-21

मुद्रक : सार्थक प्रिंटर्स, नौबस्ता, कानपुर-21

ATTESTED

श्रीमती ज्योति सूर्यवंशी

PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)
Scanned with OKEN Scanner

वृद्धावस्था का कारण प्राकृतिक विधान

वर्तमान समय में भोली-भाली जनता की सन्तुष्टि के लिए प्रगतिवादी समय ने अपना स्वरूप बदल लिया है। पूर्व में असामाजिक तत्व डकैती एवं चोरी के माध्यम से सामान्य व्यक्ति को दुःख दर्द देता था आज प्रताड़ना की तरीके बदल गये हैं। मानव का मुख्य उद्देश्य अर्थ है। पैसा! आज ऐसा प्रतीत होता है कि मनुष्य पैसा ही खा रहा है। समाज में समता और मानवता के विकास में पूँजीवाद बाधक है। पूँजीवाद के बिछाये हुए जाल से मुक्ति पाने के लिए संघर्ष आवश्यक है। समाज के अभाव में साहित्य की कल्पना असम्भव है।

डा. (श्रीमती) किरण दुबे
प्राचीन काल से ही समाज में दार्शनिकों ने चार पुरुषार्थ, धर्म-अर्थ-काम-मोक्ष की विशेषता को स्वीकार किया है। धर्म, अर्थ और काम ये तीन पृथक्-पृथक् पुरुषार्थ हैं जबकि मोक्ष को धर्म में समिलित कर दिया गया है क्योंकि धर्म की अन्तिम परिणित धर्म मानी गयी है। धर्म एवं मोक्ष को पृथक्-पृथक् नहीं किया जा सकता है। इसको साधना सूत्र में इस प्रकार व्यक्त किया गया है-

“‘धर्म’ पहला पुरुषार्थ है। मानव जीवन के अभ्युदय और निश्रेयस का यह मूल आधार है। धर्म उसे कहा जाता है, जिसमें मानव जीवन का भौतिक, नैतिक तथा आध्यात्मिक विकास हो।”

‘अर्थ’ मानव जीवन का दूसरा पुरुषार्थ है। तात्पर्य यह है कि मानव जीवन में धर्म के उपरांत अर्थ का स्थान (महत्व) होता है। अर्थ के माध्यम से मनुष्य जीवन के समस्त प्रयोजन सिद्ध हो सकते हैं। भौतिक जगत में अर्थ अत्यन्त महत्वपूर्ण तत्व है। गृहस्थ जीवन में अर्थ की मदद से ही लगभग समस्त कार्य सम्पन्न होते हैं। अर्थ ही गृहस्थ जीवन की धुरी है। धर्म का उत्तम स्वरूप वह है जो न्याय, नीति एवं मर्यादा के अनुसार हो। इसी कोटि का अर्थ मानव जीवन में सुख एवं आनंद की अनुभूति प्रदान कर सकता है।

मानव जीवन में ‘काम’ तीसरा पुरुषार्थ है। अर्थ और एक दूसरे के पूरक हैं। ‘काम’ का तात्पर्य इन्द्रियों की तृप्ति से लिया जाता है। इस संदर्भ में विद्वानों ने अपना मत इस प्रकार व्यक्त किया है। यथा-

“‘अर्थ’ धर्म के अनुकूल रहना चाहिए और ‘काम’ धर्म और अर्थ दोनों के अनुकूल होना चाहिए।” इसी सिद्धान्त के परिप्रेक्ष्य में जो व्यक्ति धर्म और अर्थ के अनुरूप ‘काम’ सेवन करता है, वह जीवन में कभी भी दुःखी नहीं होता है। यह निश्चित है कि अर्थ के उपरान्त ही ‘काम’ का क्रम आता है।

ATTESTED

अ.प्र. दुबे

PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

मानव जीवन का 'मोक्ष' चतुर्थ अथवा अन्तिम पुरुषार्थ है। भौतिक जगत में साधु-तपस्वी भी साधक है तथा गृहस्थ भी एक साधक ही है। साधु एवं गृहस्थ इन दोनों का जीवन एक साधनामय ही है इन दोनों प्रवृत्तियों पर चलने वालो चाहे वह साधु हों अथवा गृहस्थ दोनों के समक्ष साध्य के रूप में 'मोक्ष' ही है। दोनों में अन्तर केवल इतना है कि साधु गृह, परिवार तथा समाज आदि से सम्बन्धित न होकर एकाकी ही आत्म-साधना का पथिक होता है। यही कारण है कि उसका मार्ग धर्म से सीधे 'मोक्ष' मार्ग की ओर प्रस्थान करता है जबकि गृहस्थ परिवार के वृत्त में समाज एवं राष्ट्र का दायित्व धारण करके गमन करता है। इसलिए उसके समक्ष धर्म के साथ-ही-साथ अर्थ तथा काम के क्षेत्र भी आते हैं। अर्थ का समाज जीवन में विशेष महत्व है, अर्थ के बिना संसार, परिवार एवं समाज उन्नति नहीं कर सकता है। इससे यह सिद्ध होता है कि गृहस्थ जीवन में मानव के लिए अर्थ एवं काम ये दोनों अनिवार्य हैं और यही दोनों मानव के दुःखों का कारण हैं। इस संदर्भ में विदुषी शांति जोशी का कथन है कि-

"काम-वासना स्त्री-पुरुष के सम्बन्धों में रोड़ा है, यही इस सम्बन्ध को बिगाड़ती है। यह कदु आज की खोज नहीं वरन् बहुत पहले की है, जब कहना तो दूर यह सोचना भी पाप हुआ करता था। पूर्व काल में मनसा के पाप से भी व्यक्ति पापग्रस्त हो जाया करता था। सृष्टि ने पुरुष में वासना भोग का कोई महत्व नहीं बनाया। कोई अनिवार्यता नहीं, केवल आनंद विलास वह सारे स्वांग रचता है।"¹³

मानव-मूल्य जीवन की सार्थकता के लिए अनिवार्य है। जीवन मूल्यों को ज्ञात करने के लिए कुछ धारणाएँ निर्मित करना अनिवार्य है। यथा- मानव और जीवन का सम्बन्ध क्या है? मानव और जीवन क्या होना चाहिए? जो 'है' तथ्य है जो होना चाहिए वह मूल्य है। है कि स्थिति से उत्कर होना चाहिए की उपलब्धि की ओर जब जीवन बढ़ने लगता है तब उसकी गतिशीलता में जो व्यंजित होता है, उसे मूल्य से अभिहित किया जा सकता है। मनुष्य के लिए जीवन मूल्य का प्रत्यय इच्छापूर्ति तथा शारीरिक हित से ऊँचा तथा विस्तृत होना चाहिए।

प्राचीनकाल से ही परम्परागत रूप से हमारा भारतीय समाज पितृ सत्तात्मक व्यवस्थापिक रहा है। इस व्यवस्था में वृद्धजनों को बुद्धिमान एवं परिवार का मुखिया माना जाता था। वृद्धजनों का आदेश परिवार के लिए अकाट्य होता था। इस प्रकार की समाज व्यवस्था कुछ परिवर्तनों के साथ केवल मध्यकाल तक विद्यमान रही। आधुनिक औद्योगिकरण एवं वैश्वीकरण के प्रभाव से आज के व्यक्त को अपनी वृद्धावस्था की आवश्यकताओं की पूर्ति के लिए साधना संघ की सुविधा नहीं मिल पाती यही कारण है कि वह उत्तरोत्तर उपेक्षित होता जा रहा है। सामाजिक परिवेश में व्यक्ति (वृद्ध) की स्थिति दयनीय हो गयी है। मनुस्मृति में वृद्धों की इसी उपेक्षा को देखते हुए कहा गया है कि-

"ऋषि-मुनियों ने वृद्ध व्यक्तियों के भरण-पोषण के लिए समाज को दायित्व माना है। मनु के अनुसार वृद्ध माता-पिता, सद्गुरु, पत्नी एवं अवयस्क बच्चों का भरण-पोषण अनिवार्य रूप से करना चाहिए। मिताक्षरा के अनुसार जहाँ किसी प्रकार की सम्पत्ति नहीं मिलती हो तो भी अपने द्वारा अर्जित सम्पत्ति में से अपने वृद्ध माता-पिता का भरण-पोषण होना आवश्यक कहा गया है।"¹⁴

हमारे देश भारतवर्ष में प्राचीनकाल से ही वृद्धों के प्रति आह्वार, सम्मान, आज्ञा पालन तथा सेवा सुश्रुषा का भार परिवार एवं समाज पर रहा है। जीवन भर परिवार की पालन-पोषण की व्यवस्था करने वाला वृद्ध अपने को जब नितांत एकाकी असहाय अनुभव करने लगता है, तब उसे अत्यधिक पीड़ा का अनुभव होता है। हमारे धर्मशास्त्रों में माता-पिता को सर्वोच्च स्थान प्राप्त है। इसीलिए गीता में कहा गया है कि-

"त्वमेव माता च पिता त्वमेव, त्वमेव बंधुश्च सखा त्वमेव।
त्वमेव विद्या द्रविडं त्वमेव, त्वमेव मन सर्वं देव देव।"¹⁵

इसके अतिरिक्त यह भी वर्णित है कि-

"पुत्र को चाहिए कि वह माता-पिता के अनुकूल बनने का प्रयत्न करें।"¹⁶

"आचार्य शिक्षा प्राप्त कर लेने पर ब्रह्मचारी को उपदेश देते हैं कि माता-पिता को देवता की तरह पूजा करो।"¹⁷

"गुरुओं में आचार्य श्रेष्ठ है, किन्तु विद्वानों के मत में माता-पिता श्रेष्ठ गुरु है।"¹⁸

"या माता पितरो क्लेशे सदेत सप्यके दृषाम, न तस्य निष्कृति शम्या कर्तः या शैत्रिप्रिया।"¹⁹

उपरोक्त श्लोक का अर्थ यह है कि पुत्र को जन्म देने में, उसका लालन-पालन करने में माता-पिता को कितना कष्ट उठाना पड़ता है, उसका बदला सौ वर्षों में भी नहीं चुकाया जा सकता है।

मनुष्य जीवन के उत्तरार्द्ध की स्थिति वृद्धावस्था कहलाती है। मैं अर्थात् इस समय मनुष्य ने भागदौड़, आपाधापी, अर्थ लोलुपता, विकृतियों, विसंगतियों एवं प्रतिकूल स्थितियों में फँसकर वृद्धों की उपेक्षा कर दी है। मनुष्य की वृद्धावस्था में अनेक विकृतियाँ आकर जन्म ले लेती हैं, जैसे- व्याधि, मानसिक तनाव, कुंठग्रस्तता, हताशा, निराशा, असहाय स्थिति, शारीरिक दुर्बलता, जर्जरता एवं असक्तपन आदि। इन उपरोक्त स्थितियों में यदि वृद्ध व्यक्ति की देखभाल परिवारीजन खासकर युवावर्ग नहीं करता है तो व्यक्ति के लिए वृद्धावस्था एक शाप का रूप धारण कर लेता है। इसी स्थिति को मनुस्मृति इस प्रकार स्पष्ट करती है- "जब मनुष्य यह देखे कि उसके शरीर की त्वचा शिथिल अथवा ढीली (सिकुड़) पड़ गयी है, सिर के बाल सफेद हो गये हैं, पुत्र के भी पुत्र अर्थात् नाती (तीसरी पीढ़ी) हो गया है, तब उसे सांसारिक सुखों को त्यागकर वानप्रस्थ आश्रम का आश्रय लेना चाहिए, क्योंकि उसी निर्जन स्थान में रहकर व्यक्ति अपने को मोक्ष की ओर अग्रसर करने में सफल हो सकता है।"²⁰

वृद्धावस्था में व्यक्ति की दुर्दशा का एक कारण यह भी है कि- वनों के समाप्त होने, वनों में फल आदि खाद्य पदार्थों का अभाव तथा व्यक्ति का पारिवारिक मोह माया के लोभवश गृह न त्यागना आदि कारण ही उसे इस स्थिति में ढकेल दिये हैं। इस स्थिति से उबरने के लिए एक हथियार का प्रयोग करके इससे कुछ हद तक बचाव किया जा सकता है, वह हथियार है साहित्य। मानव जीवन में साहित्य का विशेष महत्व है। साहित्य के माध्यम से समाज में व्याप्त कुरीतियों, घटनाओं और परिस्थितियों आदि से संज्ञान लेकर उनके निवारण का प्रयत्न किया जा सकता है। प्रायः यह देखा जाता है कि

ATTESTED

PRINCIPAL
P.VIPRA COLLEGE
BILASPUR (C.G.)

80 / वृद्ध विमर्श : परम्परा और आधुनिकता का द्वंद्व

बुढ़ापे में इंसान दूसरों पर आश्रित (निर्भर) हो जाया करता है। जो काम वह यौवनावस्था में स्वयं कर लेता है जैसे भी आना है, परन्तु वृद्धावस्था की स्थिति में वह इन समस्त कार्यों के क्रियान्वयन के लिए पराधीन हो जाता है।

वृद्ध-विमर्श से तात्पर्य यह है कि वृद्धावस्था की परिस्थितियों घटनाओं आदि का चिन्तन करना। चिन्तन का अर्थ यह है कि वृद्धावस्था की समस्याओं को समझ-बूझकर उनके विद्वान का समाधान या समायोजन करना। वर्तमान युग में वृद्ध-विमर्श अति आवश्यक है क्योंकि मानव आज इतना अधिक व्यस्त हो गया है कि उसके पास वृद्धजनों की देखभाल करने, उनकी सेवा सुश्रुषा करने एवं उनकी दैनिक आवश्यकता की पूर्ति करने तथा उनकी इच्छा अनिच्छा की चाह पूरी करने के लिए समय ही नहीं है। इसका प्रमुख कारण है संयुक्त परिवार प्रणाली का समाप्त होना। इसी के परिणामस्वरूप हम वृद्धों के अनुभवों एवं उनके ज्ञान का लाभ प्राप्त करने से वंचित हो गये हैं। जीवन की व्यस्तता ने इतना विकराल प धारण कर लिया है कि पुरानी पीढ़ी और नयी पीढ़ी में सामंजस्य स्थापित करने का अवसर नहीं नजर आ रही हैं। नवीन पीढ़ी और पुरानी पीढ़ी का अन्तर हमें अपनी सभ्यता और संस्कृति से भी दूर ले जा रहा है। यह हमारा ही दुर्भाग्य है कि हम बुजुर्गों के ज्ञान तथा अनुभव को दूसरी पीढ़ी में हस्तांतरित नहीं कर रहे हैं। हमारा प्राचीन कला कौशल जो जीविकोपार्जन का आज भी साधन बन सकतार है समाज से विलुप्त प्राय हो गया है। वर्तमान पीढ़ी गुणवत्ताहीन, अस्वास्थ्यवर्धक वस्तुओं का प्रयोग करने के लिए अंतर्राष्ट्रीय कम्पनियों के उत्पाद पर निर्भर होकर अपना सही अर्थों में आयु हास कर रही है। प्राचीन पद्धतियाँ, कार्यकुशलता, कारीगरी, शिल्पकला, चित्रकारी तथा आश्चर्यचकित कर देने वाली कुशलता का नवीन पीढ़ी को आज लोहा मानना चाहिए। पर्यटक स्थान, अनूठी मंदिर-मठ निर्मिति कला, अजन्ता-एलोरा एवं लालकिलो की शिल्पकारी विश्व प्रसिद्ध इमारत ताजमहल, गोल गुम्बद, वैष्णो माता की गुफा तथा बाबा भोले शिव के अनेक स्थलों पर स्थित मंदिर आदि इन्हीं बुजुर्गों की हस्तकारी की कला है।

संदर्भ

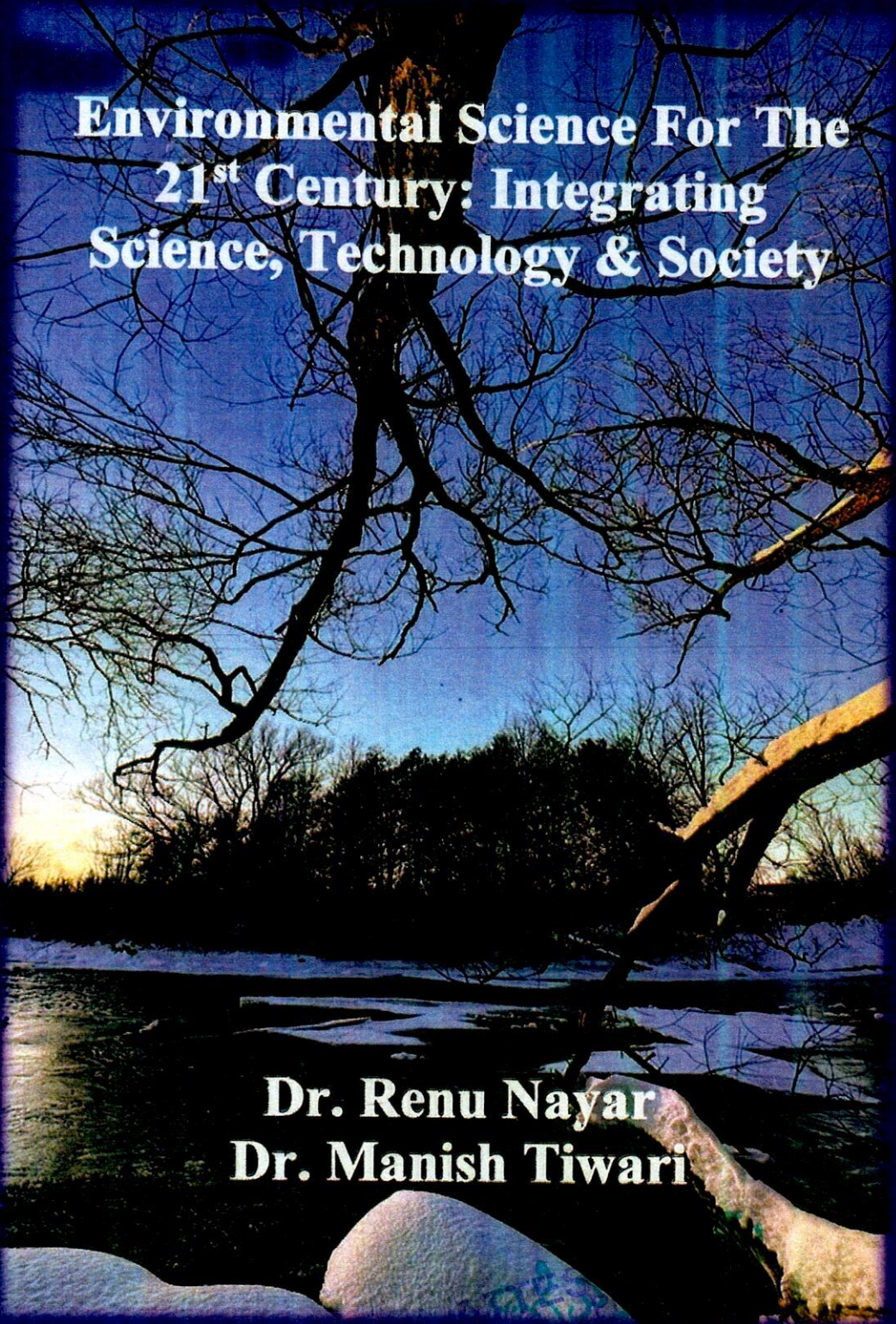
1. साधना के सूत्र- श्रीचंद सुराना, पृ.199
2. रांगेय राघव के गद्य साहित्य में जीवन-दर्शन- डॉ सुरिन्दर कौर गौड़, पृ. 43
3. नीतिशास्त्र- शान्ति जोशी, पृ. 297-298
4. उपेक्षा की शिकार वृद्ध महिलाएँ- डॉ. (श्रीमती) अंजू शुक्ला, पृ. 107
5. श्रीमद्भगवद्गीता
6. अथर्ववेद
7. तैत्तरीय उपनिषद
8. गौतम धर्मसूत्र
9. मनुस्मृति
10. वही

सहायक प्राध्यापक, राजनीति विज्ञान विभाग
डी.पी. विप्र महाविद्यालय, बिलासपुर,
जि. बिलासपुर (छ.ग.)

ATTESTED

श्री. अंजू शुक्ला

PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)



**Environmental Science For The
21st Century: Integrating
Science, Technology & Society**

**Dr. Renu Nayar
Dr. Manish Tiwari**

17	Renu Nayar, Manish Tiwari	Safeguarding Water: Harnessing Sensors for Quality Control in Chhattisgarh Region	165
18	Shriti Somvanshi	Effects of Environmental Pollution on Human Health	179
19	Mandvi Namdeo	Environmental Chemistry & Pollution Control	184
20	A Sri Ram, Khagendra Soni	Green Marketing: Golden Rule & Importance	189
21	Komal Chandra, Manish Tiwari	Analysis of Groundwater Quality and its Suitability for Drinking Using Water Quality Index in Mungeli District of Chhattisgarh	197
22	Sandeep Tandon, Deepak Tiwari, Renu Nayar	Assessment of Seasonal Changes and Pollution Status of Rural Lentic Water Bodies (Ponds) in Birkona, Bilaspur City: Implications for Restoration and Management	206
23	Rajani Patel, Renu Nayar	Assessment of Physico-chemical Parameters in Groundwater: A Comparative Study of Residential and Industrial Areas in Sirgitti, Bilaspur District	213
24	Richa Handa	Smart Environmental Monitoring using IoT Technology	225
25	Vinit Nayar, Renu Nayar	Synthesis of Nanoparticle of Iron Oxide and Removal of Heavy Metals by Adsorption	231
26	Vinit Nayar, Chiranjeev Das, Sanjay Dhoble	Red-Emitting SrMgAl ₁₀ O ₁₇ :Eu ³⁺ Phosphor and its Luminescence Properties	242
27	Renu Nayar	Humanity, Technological Evolution and The Environment	250
28	Shikha Pahare, ML Jaiswal, Motilal Patle	Importance of Fungi in Human Life	261
29	MS Tamboli	Impact of Human Activities on the Environment	269
30	Oorja R Sinha	The Transformative Power of Egdon Heath in Thomas Hardy's "The Return Of The Native"	273
31	Pradeep Jaiswal, Manish Upadhyay, Manish Tiwari	Preparation of Silver Nanoparticles and Their Industrial, Biomedical Applications: and Removal of Heavy Metal Ion	281
32	Kripa Shankar Tiwari	Reviving Rivers: A Comprehensive Blueprint for Conservation and Rejuvenation	296

ATTESTED

DR. P. V. PRASAD
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

CONTENTS

CH#	AUTHOR NAME	TITLE	PG #
1	Renu Nayar, Manish Tiwari, Anju Shukla	Exploring Women's Empowerment in Rural India: An Analysis of Information and Communication Technology (ICT) Initiatives	1
2	Anju Shukla	Prachin Bharatiya Samaj Mein Paryavaran Sanrakshan Keliye Kiye Gaye Karya	6
3	Nimesh Khodiyar	Jalvaayu Parivartan	13
4	Sushama Sharma	Manav Paryavaran Sangharsh	15
5	Sunil K, Renu Nayar, Vinit Nayar	Integrating Science, Technology & Society in the 21 st Century	19
6	Shubhagita Nayar, Shuchita Nayar	From Data to Action: Big Data's Role in Environmental Pollution Control in India	30
7	Renu N, Sunil K	Comparing 21 st Century Environmental Science Education Pre- and Post-Covid-19 for Global Challenges	44
8	Tulika Shome, Sadhana Shome	Green Human Resources – Meaning, Advantages, Policies & Practices	62
9	Priyanka Menda, Gagan Upadhyay	Environmental Jurisprudence in 21 st Century	70
10	Wasudeo Gurnule, R Dubey, S Nagare, S Burade, U Purohit, J Khobragade	Synthesis, Ion-Exchange & Electrical Conductance Studies of 2-Amino 6-Nitrobenzothiazole-Oxamide Copolymer Resin	81
11	Toshima Mishra, Deepak Kashyap	Climate Change and its Effects	98
12	Shilpa Yadav, Shivshankar Pandey	From Disposal to Opportunity: Understanding E-waste in the Digital Age	104
13	Shivshankar Pandey, Vivek Ambalkar	Using SAR Calculations to Investigate the Effects of Mobile Phone Tower Radiation on Human Blood, Muscle, and Bone	110
14	ML Jaiswal, Shikha Pahare, Motilal Patle	Photo Pollution	12
15	Balaji Shastri, Renu Nayar	Physico-chemical Analysis of Ground Water in Nagpur City, Maharashtra, India	12
16	Priti Mishra	Introduction to the Scientific Framework or Environmental Chemistry and It's Importance in 21st Century	15

ATTESTED

PRINCIPAL

P. VIPRA COLLEGE
BILASEN (C.O.)

CHAPTER 1

EXPLORING WOMEN'S EMPOWERMENT IN RURAL INDIA: AN ANALYSIS OF INFORMATION AND COMMUNICATION TECHNOLOGY (ICT) INITIATIVES

Renu Nayar¹, Manish Tiwari¹, Anju Shukla²

¹Department of Chemistry, D.P. Vipra College, Bilaspur (C.G.)

²Principal, D.P. Vipra College, Bilaspur (C.G.)

Abstract

This study explores the empowerment of women in rural India through Information and Communication Technology (ICT) initiatives. It investigates the role of ICT interventions in enhancing women's economic independence, access to education and healthcare, participation in decision-making, and social inclusion. Using mixed research methods, including surveys, interviews, and case studies, the study examines the impact, challenges, and opportunities of ICT-driven empowerment efforts in rural India. The findings highlight the significance of technology in reducing gender disparities and promoting socio-economic progress in these areas.

Keywords: ICT, women, rural, socio-economic, empowerment

Introduction

The Indian higher education system is vast, with numerous universities, students, and institutions. Ensuring quality education and managing the challenges of fundamental infrastructure is essential. Collaboration among stakeholders is crucial to enhance excellence. Despite the challenges, it provides diverse options and opportunities, preparing students for the professional world and contributing to social and economic development. Continuous improvement, efforts in infrastructure, collaboration, and quality assurance are necessary for student preparation.

Current Challenges

Current challenges facing the Indian higher education system include:

ATTESTED

(Handwritten signature)

CHAPTER 2

प्राचीन भारतीय समाज में पर्यावरण संरक्षण के लिए किए गए कार्य

डॉ. (श्रीमती) अंजू शुक्ला

प्राचार्य डी.पी. विप्र महाविद्यालय बिलासपुर (छ.ग.)

सारांश

भारतीय समाज में सनातन संस्कृति का विकास के दुनिया में आदिकाल से प्रभाव रहा है। सनातन संस्कृति में पर्यावरण (प्रकृति निर्मित) का विकास पंच तत्वों (पंच महाभूतों) से माना गया है। आकाश, वायु, अग्नि, जल और पृथ्वी। इन पंच महाभूतों को देवता मानकर इनको पूजनीय स्थान मिला है। पर्यावरण के प्रमुख घटक जल, वायु, मृदा और जैव सर्वाधिक प्रदूषित हो रहे हैं। यह स्थिति समस्त ब्राह्मंड के साथ-साथ पृथ्वीवासी मानव समाज के लिए चिंत्नीय हो गया है। प्राचीन भारतीय समाज में जल की शुद्धता बनाए रखने के लिए समस्त जल भंडार को जैसे समुद्र को वरुण देव, सभी नदियों को माता, कुआं, वावली, तालाब में जल देवी का वास मानकर पूजा किया जाता है। जल में मल विसर्जित करना, कुल्ला करना, कचरा फेंकना, रात्रि के समय स्नान करना, आसपास में कचरा फैलाना पाप माना जाता था। आज भी इन नैतिक कर्तव्यों का पालन करना पड़ेगा। नदी, तालाब के किनारे बरगद, पीपल, नीम, आम, इमली के पेड़ लगाए जाते थे ताकि इससे वृक्षों के जड़ में पर्याप्त जल रहे और पीने लायक जल खुदाई करने पर मिले इसी तरह वायु की शुद्धि के लिए यज्ञ का विधान था। यज्ञ के धुंआ से कार्बन डाईआक्साइड गैस, आक्सीजन में परिवर्तित होता है। बरगद में शंकर का वास, पीपल में विष्णु का वास, नीम में देवी का, आम में कामदेव, परिजात में हनुमान और बेल में लक्ष्मी का वास बताया गया। आज जल और वायु के शुद्धि के लिए जीवन दायिनी पेड़ लगाना आवश्यक है। मृदा संरक्षण को बचाने के लिए पेड़, पौधा लगाना आवश्यक है। जल, वायु एवं मिट्टी में विभिन्न प्रकार के जैव पदार्थ हैं। बैक्टीरिया (जीवाणु), फंगस, प्रोटोजोवा, वायरस (विषाणु) का योगदान, सृष्टि संचालन में महत्वपूर्ण है। पुरानी संस्कृति के बताए रास्ते पर चलकर हम पर्यावरण को बचा सकते हैं।

जैव विविधता को बचाने के लिए विकास के नाम पर पेड़-पौधों की कटाई, रसायनिक तत्वों का प्रयोग, यूरिया एवं रेडियोधर्मिता वाले पदार्थ, कीटनाशक दवाई का प्रयोग पर प्रतिबंध लगाना चाहिए। जैविक खाद का प्रयोग नदी, तालाब का संरक्षण, जलीय जीव-जंतु जैसे मछली, मेंढक, कछुआ, मगर का संरक्षण, जंगलों की रक्षा के लिए जंगली जानवरों का संरक्षण हम सबका कर्तव्य है। औद्योगिक जगहों पर कृषि जीवन एवं पशुपालन को आर्थिक विकास का आधार बनाकर ग्रामीण संस्कृति को अपनाकर, हम अपने बिगड़ते हुए पर्यावरण को बचा सकते हैं। जैविक खाद, निर्धूर चूल्हा, सौर ऊर्जा, मिट्टी के फ्रीज, जल महल, हवा महल, जैसे नवाचार पर्यावरण को बचाने का अच्छा विकल्प हो सकता है।

ATTESTED

CHAPTER 4 मानव पर्यावरण संघर्ष

डॉ सुषमा शर्मा
सहायक प्राध्यापक समाजशास्त्र
डीपी विप्र महाविद्यालय बिलासपुर छत्तीसगढ़

सारांश

मानव पर्यावरण संघर्ष एक महत्वपूर्ण भूगोलिक संघर्ष जो मानव और पर्यावरण के बीच संबंधों का अध्ययन करता है। मानव एवं पर्यावरण एक-दूसरे पर सीधा और परस्पर प्रभाव डालते हैं और इस प्रकार के संघर्ष के परिणामस्वरूप पर्यावरण के साथी मानवीय प्रतिस्पर्धा, साझेदारी और पर्यावरणीय बदलाव उत्पन्न होते हैं। मानव पर्यावरण संघर्ष का एक उदाहरण जल संसाधनों का उपयोग है। मानव जल स्रोतों को प्राप्त करके अपनी जरूरतों को पूरा करते हैं, जिसका परिणामस्वरूप जल संकट और पानी की कमी का अनुभव होता है। वैसे ही वनों और जलवायु परिवर्तन का मानव द्वारा किया जाने वाला प्रभाव भी मानव पर्यावरण संघर्ष का एक प्रमुख उदाहरण है। जंगलों की कटाई और जलवायु परिवर्तन ने जीव-जंतुओं और पौधों के जीवन को प्रभावित किया है और बड़े पैमाने पर पर्यावरणीय परिवर्तन को गति दी है। मानव पर्यावरण संघर्ष का प्रभाव ध्वनि, वायु, भूकंप, प्रदूषण, जल और भूमि ध्वस्तता के रूप में भी देखा जा सकता है। मानव द्वारा उत्पन्न किए जाने वाले प्रदूषण तत्वों के कारण पर्यावरण का संतुलन बिगड़ता है, जिससे स्वास्थ्य समस्याएं और प्राकृतिक आपदाएं होती हैं। मानव पर्यावरण संघर्ष के प्रभाव को कम करने के लिए, हमें उच्चतम गुणवत्ता के साथ पर्यावरण संरक्षण के तरीकों को अपनाना चाहिए। इसके लिए हमें जल संरक्षण, वनों की संरक्षण, प्रदूषण नियंत्रण और जीव-जंतुओं के संरक्षण की जरूरत होती है। हमें सभी लोगों को जागरूक करना चाहिए कि पर्यावरण संरक्षण हमारे और भविष्य की पीढ़ियों के लिए महत्वपूर्ण है और हमें सुरक्षित और स्वस्थ मानवाधिकारों की एक गारंटी के रूप में देखा जाना चाहिए।

परिचय

पर्यावरण और मानव जीवन के बीच संबंध एक गहरा और प्रभावशाली रिश्ता है। मानव पर्यावरण संघटना एक प्राकृतिक और सामाजिक प्रक्रिया है जिसमें मानव संसाधनों और पर्यावरण के बीच एक संवेदनशील सम्बंध होता है। इस

ATTESTED

PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

शुषमा शर्मा

CHAPTER 5

INTEGRATING SCIENCE, TECHNOLOGY & SOCIETY IN THE 21ST CENTURY

Sunil K¹, Renu N², Vinit N³

¹SURE Paryavaran Seva, India

²Department of Chemistry, D.P. Vipra College (C.G.), Bilaspur, India

³Department of Physics, CMD College (C.G.), Bilaspur, India

Abstract

This chapter serves as an insightful exploration of the intricate interplay among science, technology, and society in the context of contemporary environmental challenges. In an era defined by pressing ecological concerns, this chapter illuminates the synergistic roles these three facets play in shaping a sustainable future. Focusing on the convergence of science, technology, and society, the chapter delves into the realms of environmental jurisprudence, green marketing, and emerging contaminants. It examines the legal frameworks that safeguard our environment, explores the potential of technology-driven green marketing to influence consumer behavior, and delves into innovative strategies for tackling emerging pollutants. The chapter also spotlights the intertwined issues of climate change, e-waste, and the importance of cultivating green human resources. By emphasizing international cooperation and environmental justice, it underscores the need for collaborative action and equitable access to a clean environment. This chapter serves as a timely guide, showcasing how the harmonious integration of science, technology, and society can pave the way for effective solutions in addressing the complex environmental challenges of the 21st century.

Keywords: environmental, education, jurisprudence, society, innovation, public awareness

ATTESTED

PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

20/11/2021

CHAPTER 7

COMPARING 21ST CENTURY ENVIRONMENTAL SCIENCE EDUCATION PRE- AND POST-COVID-19 FOR GLOBAL CHALLENGES

Renu N¹, Sunil K²

¹Department of Chemistry, D.P. Vipra College, Bilaspur (C.G.)

²SURE Paryavaran Seva, India

Abstract

The shift from pre to post-Covid teaching practices in environmental science has revealed profound transformations. Pre-pandemic methods emphasized hands-on experiences, while the pandemic-induced virtual shift led to technology integration, online collaborations, and citizen science projects. Despite challenges, these innovations engaged students in real-world research and conservation, forging a deeper connection to environmental issues. The crisis accelerated technology adoption, bolstered accessibility to environmental information, and encouraged global partnerships. The combination of traditional and virtual methods enriched learning, fostering critical thinking, problem-solving skills, and environmental stewardship. This progress holds potential to shape a more sustainable future, equipping students with knowledge, skills, and empathy. By emphasizing environmental literacy and sustainable behaviors, education becomes a force for positive change, fostering commitment to conservation across generations. Technology-driven learning and global collaborations expand students' understanding of interconnected environmental issues, nurturing informed leaders and advocates for environmental justice. In essence, comparing pre- and post-Covid teaching practices illustrates the transformational power of crisis, propelling education toward a sustainable world where empowered individuals safeguard our planet's resources for future generations.

Keywords: Covid-19, education, challenges, environmental science, innovation

Introduction

Environmental science education holds immense significance in a rapidly evolving world, where environmental challenges like climate change, sustainability, and biodiversity conservation have

CHAPTER 8

GREEN HUMAN RESOURCES – MEANING, ADVANTAGES, POLICIES AND PRACTICES

Tulika Shome¹, Sadhana Shome²

¹Joveo Technologies Pvt Ltd., India

²Department of Sociology, D.P. Vipra College, Bilaspur (C.G.)

Abstract

Green HR is an innovative approach within the Human Resources (HR) domain that extends its role to actively support organizational sustainability. In the realm of Green HR, HRM policies play a pivotal role in catalyzing and sustaining the responsible utilization of resources and safeguarding the natural environment. Coined by Wehrmeyer in 1996, the term "Green HRM" encapsulates an evolving concept that remains largely unfamiliar to the majority. Its potential impact is hindered by limited awareness and understanding among individuals. Central to Green HR is the cultivation of a workforce that is not only aligned with but actively engaged in achieving sustainable objectives. This involves holistic initiatives spanning staffing, performance management, training and development, and employment relations—all tailored to uphold the organization's sustainability pursuits. Natural resources assume paramount importance for businesses, necessitating the establishment of eco-friendly systems for enduring environmental health. Green Human Resource Management (Green HRM) emerges as a strategic response, utilizing HRM policies to drive resource sustainability within organizations and champion the broader cause of environmental well-being. The integration of Green HR practices becomes a crucial corporate social responsibility, cultivating an ecosystem where HR actively contributes to the larger sustainability narrative.

Keywords: Green human resource management, corporate social responsibility, sustainable, ecosystem

Introduction

Green HR refers to a strategic approach within the field of Human Resources that extends its traditional role to actively contribute to an organization's sustainability endeavors. In this context,

ATTESTED
[Signature]

CHAPTER 11

CLIMATE CHANGE AND ITS EFFECTS

Toshima Mishra, Deepak Kashyap

Department of Zoology
D.P. Vipra College, Bilaspur (C.G.), India

Abstract

Climate change pertains to enduring alterations in temperature and weather patterns over extended periods. These modifications can result from natural causes, such as shifts in the solar cycle. However, since the 1800s, human activities have emerged as the primary catalyst for climate change, primarily due to the combustion of fossil fuels like coal, oil, and natural gas. This combustion releases greenhouse gases, acting as a blanket around the Earth, trapping the sun's warmth and increasing temperatures. Notable greenhouse gas emissions contributing to climate change include carbon dioxide and methane, arising from activities such as using gasoline for transportation or coal for heating. In the context of India, a rapidly developing nation with significant energy demands, these challenges are particularly pronounced. Deforestation and land clearing can also release carbon dioxide, while waste landfills significantly contribute to methane emissions. Key sectors responsible for greenhouse gas emissions encompass energy production, industrial processes, transportation, buildings, agriculture, and land utilization, all of which hold particular relevance for India's growth. This paper offers an overview of the causes and mechanisms of climate change, emphasizing its far-reaching effects on ecosystems, weather patterns, and sea levels, especially in the Indian context. By delving into the intricate interplay between human actions and environmental responses, this study underscores the global imperative, as well as the unique challenges and opportunities India faces, to address and mitigate the profound consequences of climate change.

Keywords: climate change, weather, deforestation, greenhouse gas,

Introduction

Climate change pertains to enduring alterations in temperature and weather trends over extended periods. These modifications can stem from natural causes, such as shifts in the solar cycle.

CHAPTER 13

USING SAR CALCULATIONS TO INVESTIGATE THE EFFECTS OF MOBILE PHONE TOWER RADIATION ON HUMAN BLOOD, MUSCLE, AND BONE

Shivshankar Prasad Pandey¹, Vivek Ambalkar²

¹Department of Physics, Government Mahamaya College Ratanpur (C.G.)

²Department of Physics, D. P. Vipra College Bilaspur (C.G.)

Abstract

Due to the widespread use of mobile phones in modern society, cell towers can emit radiofrequency radiation (RFR). By using Specific Absorption Rate (SAR) calculations, this book chapter examines the effects of RFR on human blood, muscle, and bone tissue. RFR from mobile phone towers has been found to cause adverse health effects, such as changing blood parameters, altering muscle function, and reducing bone density, according to research. Although SAR calculations have helped clarify the potential effects of RFR on these tissues, more research is required to fully understand these risks.

Keywords: Mobile phone towers, radiofrequency radiation, Specific Absorption Rate, human blood, human muscle, human bone

Introduction

Millions of people use mobile phones every day for communication and other purposes, making them an essential component of modern life. Concerns regarding the radiation from mobile phones, especially those from mobile phone towers, that may have adverse health impacts have arisen because of their rising use. Signals are transmitted between mobile phones and the telecommunications network using mobile phone towers, sometimes referred to as base stations. These towers release radiofrequency radiation (RFR), a type of electromagnetic radiation that can injure humans by penetrating their bodies (Vijayalaxmi 2018; Yadav and Pandey 2023).

Studies have demonstrated that RFR exposure from mobile phone towers can be harmful to human health. Researchers have paid close attention to how RFR affects the blood, muscle, and bone in particular. RFR impacts several tissues, however the specific methods by which are yet not entirely

CHAPTER 14

PHOTO POLLUTION

M.L. Jaiswal, Shikha Pahare, Motilal Patle
Department of Botany
D.P. Vipra College, Bilaspur (C.G.)

Abstract

Photo pollution, often referred to as light pollution, emerges as a growing environmental concern with far-reaching implications. It involves the excessive or misdirected artificial light that disrupts the natural darkness of the night sky and interferes with ecosystems, human health, and astronomical observations. This phenomenon, fueled by rapid urbanization and technological advancement, disrupts the natural balance of day and night cycles, impacting wildlife behavior, migration patterns, and ecological processes. Moreover, it poses significant challenges to human well-being by disrupting sleep patterns, altering hormone production, and contributing to various health issues. Astronomical observations are hindering, impacting our understanding of the cosmos. Mitigating photo pollution necessitates a multipronged approach involving the use of efficient lighting technologies, responsible urban planning, and awareness campaigns. By addressing photo pollution, we can reclaim the serenity of the night sky, restore ecosystems, promote human health, and foster a renewed appreciation for the beauty of the natural world after dark.

Keywords: photo, pollution, environmental impacts, health, mitigation

Introduction

Pollution involves the introduction of harmful substances into the environment, termed pollutants. These pollutants can have natural origins, such as volcanic ash, or result from human activities, like the runoff generated by factories. This contamination adversely affects the quality of air, water, and land, posing significant threats to ecosystems and human well-being. Photo pollution manifests as the unwarranted, inappropriate, or excessive artificial illumination that disrupts the natural state of darkness. Termed "light pollution," this phenomenon encompasses the adverse outcomes arising from poorly executed

CHAPTER 15

PHYSICO-CHEMICAL ANALYSIS OF GROUND WATER IN NAGPUR CITY, MAHARASHTRA, INDIA

Balaji Shastri¹, Renu Nayar²

¹KS Enviro Engineers, Nagpur (M.S.)

²Department of Chemistry, D.P. Vipra College, Bilaspur (C.G.)

Abstract

The study focuses on assessing the drinking water quality of groundwaters in Nagpur city's urban slums. Hand pumps, the main water source for these areas, were used for sampling. Fifteen sites were selected across Nagpur for comprehensive representation. Physico-chemical, bacteriological, and biological parameters were compared against various drinking water quality standards like ISI, ICMR, PHS, WHO, U.S., and European specifications. Turbidity in Gittikhadan, Panchpaoli, and Rameshwari suggested seepage through porous soil. Hardness, attributed to calcium, chloride, and bicarbonate, was observed. Dissolved Oxygen levels were suboptimal in 75% of locations, and elevated chloride content was found in Panchpaoli and Indora. Some heavy metals were detected: lead in Chandan Nagar, cadmium in Raghujinagar and Tulsibagh, and chromium in Hingna, Sadar, and Itwari. Iron and manganese were found in specific locations. Phytoplankton and zooplankton were observed in Khamla, Itwari, and Panchpaoli, and coliform counts were noted in 75% of locations. Fecal coliform was present at Khamla and Indora. The assessment raises concerns about the water quality in Nagpur's slum handpumps, suggesting potential health risks. Implementing disinfection and pretreatment measures before consumption is advisable for long-term health safety.

Keywords: ground water, physico-chemical, bacteriological, nutrient, drinking water quality

Introduction

Nagpur district is in the eastern part of Maharashtra state and covers an area of 9,928 sq.km (20°35' to 21°44' North latitude and 78°15' to 79°40' East longitude). Situated at an elevation of 652 m above mean sea level, it serves as the geographical center of India. The district is classified as a cosmopolitan

ATTESTED

PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

शुभम सुभानि

CHAPTER 17

SAFEGUARDING WATER: HARNESSING SENSORS FOR QUALITY CONTROL IN CHHATTISGARH REGION

Renu Nayar, Manish Tiwari
Department of Chemistry
D.P. Vipra College, Bilaspur (C.G.)

Abstract

This research introduces a cost-effective water quality monitoring system specifically designed for application in the remote rivers, lakes, coastal areas, and diverse water bodies of the Chhattisgarh region. Through comprehensive experimentation, the system's immense potential is demonstrated, making it a practical and viable solution for environmental monitoring in this geographically challenging area. By delivering pertinent and real-time information to stakeholders, this innovative system empowers decision-makers in Chhattisgarh to make sound choices, thereby ensuring the preservation and sustainable management of water resources in the region. Environmental sensors play a crucial role in this monitoring system, enabling precise and continuous measurements of various water quality parameters. These sensors are vital tools in understanding the health of water bodies, detecting pollution, and assessing the impact of human activities on the environment. With the integration of advanced environmental sensors, this monitoring system stands ready to significantly contribute to safeguarding Chhattisgarh's aquatic ecosystems and formulating informed environmental policies for the region's long-term well-being.

Keywords: water quality monitoring, cost-effective, sensors, sustainable management

Introduction

Water, a natural resource on our planet [1], holds immense significance for humankind and all living beings [2]. Unfortunately, environmental degradation caused by development, population growth, and climate change has led to an increased need for research on its adverse impact, particularly on water sources and the environment at large. Depending on its quality, water can either sustain life and promote good health or become a source of diseases and fatalities. The escalating pollution in oceans, lakes, and rivers has created a global demand for more advanced methods of environmental monitoring, especially in the field of water quality assessment. Every

ATTESTED

PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

(Handwritten signature)

CHAPTER 18

EFFECTS OF ENVIRONMENTAL POLLUTION ON HUMAN HEALTH

Shriti Somvanshi
Department of Zoology
D.P. Vipra College, Bilaspur (C.G.)

Abstract

Today, the environment is experiencing a surge in pollution, primarily attributed to the growth of urbanization, industrialization, mining, quarrying, and various other developmental activities. The level of industrialization in a nation is now considered a significant indicator of its economic development. Industrialization is primarily responsible for the prosperity and status that modern nations enjoy. However, it also unfortunately brings about certain adverse consequences for local, national, and global environments. Poor socioeconomic conditions and living standards contribute to environmental pollution in India, compounding the problem further. Environmental pollution is a pressing issue confronting humanity in the modern era. This problem has emerged since the industrial era began, as the concept of environmental pollution encompasses both qualitative and quantitative changes in the components of the living and non-living environment.

Keywords: urbanization, industrialization, human health, environmental pollution

Introduction

Global issues include environmental contamination, driven by concerns about improving human health, hygiene, and ecological balance. This concern has arisen both within the general public and among ecologists due to population growth and industrialization. Pollution not only harms the environment and poses health risks but also damages national economies. The natural environment is experiencing increasing pollution due to population pressure brought about by urbanization, industrialization, mining, quarrying, and other development activities. The level of industrialization in a nation is now considered a reliable indicator of its economic development. While industrialization is primarily responsible for the prosperity and status enjoyed by modern nations, it also unfortunately carries certain negative consequences for local, national, and global

ATTESTED

PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

CHAPTER 20

GREEN MARKETING: GOLDEN RULE & IMPORTANCE

A. Sri Ram, Khagendra Kumar Soni

Department of Commerce
D.P. Vipra College, Bilaspur (C.G.)

Abstract

At present the scenario of modern business green marketing is a phenomenon which has significant impact on modern market and developed as an important strategy for sustainable development. The development of green marketing has opened unlimited opportunity for companies to produce eco-friendly products where the customers are ready to pay premium price for the quality green products as customers are more concerned about the environmental issues at national and global level. The present paper focuses on concept, importance and golden rule of Green Marketing.

Keywords: Green marketing, Eco-friendly, Green products, Sustainable development.

Introduction

Marketing is one of the core functions of any organization and is considered as the revenue generation function. The term green marketing is the marketing of products which is environmentally safe. It inculcates a various range of activities including modification of product, changes in the process of production, packaging and modification of advertising. An example of green marketing is the existence of retail, social, and environmental concepts. Other terms used for green marketing are environmental marketing and ecological marketing. Green marketing is the concept of promoting environmentally friendly products, and services. Some green marketing examples include:

- Eco-friendly products.
- Using eco-friendly packaging of products made from recycled materials.
- Reduction of greenhouse gas emissions during production processes.
- Adopting sustainable business practices.

CHAPTER 21

ANALYSIS OF GROUNDWATER QUALITY AND ITS SUITABILITY FOR DRINKING USING WATER QUALITY INDEX IN MUNGELI, DISTRICT OF CHHATTISGARH

Komal Chandra¹, Manish Tiwari²

¹Atal Bihari Vajpayee University Bilaspur (C.G.)

²D. P. Vipra College, Bilaspur (C.G.)

Abstract

The quality of water is an important criterion for evaluating the suitability of water for drinking and irrigation purposes. Whereas the quality of groundwater depends on various chemical constituents and their concentrations. Groundwater samples were collected from different sites in Mungeli district of Chhattisgarh State and analyzed for water quality parameters. The concentrations of physical and chemical parameters in groundwater samples were compared with those of the Bureau of Indian Standards (BIS) and the World Health Organization (WHO). The water quality index is determined using the weighted arithmetic index method. The conclusion of the analysis is that the groundwater quality in the study area is good and fit for drinking.

Keywords: Ground water quality, physico-chemical analysis, Water quality index

Introduction

One of the most significant and plentiful elements in the environment is water. Water is a necessity for the survival and development of all living things on earth (Gorde S.P. and Jadhav M.V.2013). Everywhere in the world, groundwater is used for agriculture as well as home and industrial water supplies (Kavitha R. and Elangovan K. 2010). Groundwater is a life-sustaining and crucial resource for the planet (Gummadi, S., et al. 2014). Water has become increasingly in demand over the past few years for drinking, residential, agricultural, and industrial uses (Dhiman, S., and Keshari, A. 2006). The impact of environmental issues on groundwater quality has been more pronounced in recent years. The biggest threat to the environment is groundwater contamination. One of the biggest risks to groundwater resources not only in India but around the world is the

ATTESTED

PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

CHAPTER 22

ASSESSMENT OF SEASONAL CHANGES AND POLLUTION STATUS OF RURAL LENTIC WATER BODIES (PONDS) IN BIRKONA, BILASPUR CITY: IMPLICATIONS FOR RESTORATION AND MANAGEMENT

Sandeep Kumar Tandon¹, Deepak Tiwari², Renu Nayar²

Department of Chemistry,

¹Govt. PMRS College Pendra Road, Gaurela, (C.G.)

²D.P. Vipra College Bilaspur, (C.G.)

Abstract

This study examines the seasonal changes in water quality of rural lentic water bodies (ponds) in Birkona, Bilaspur city. Due to unplanned development and urbanization, the ponds in this village are facing a threat to their existence. Despite the global call for water body restoration, these ponds have been neglected. For the study, ten ponds were selected, and the following parameters were analyzed: temperature, total dissolved solids (TDS), pH, dissolved oxygen (DO), biochemical oxygen demand (BOD), and turbidity. The study concludes that the water quality of Birkona ponds is polluted, as the results exceeded the permissible limits. Factors such as city sewage discharge, agricultural and urban runoff, and continuous dumping of waste materials, particularly sanitary waste, are adversely affecting the water quality of these urban water bodies. There is a significant need to enhance our understanding of these small impoundments to effectively manage them.

Keywords: Physico-chemical, BOD, COD, Domestic Waste, WQI

Introduction

Water is crucial for human sustenance as it provides an essential and safe supply that is necessary for the population. Having access to clean and safe water has significant health benefits. However, in the current scenario, untreated water poses problems. One of the most significant risks is water contamination with human or animal waste, which can contain microorganisms such as bacteria,

CHAPTER 23

ASSESSMENT OF PHYSICO-CHEMICAL PARAMETERS IN GROUNDWATER: A COMPARATIVE STUDY OF RESIDENTIAL AND INDUSTRIAL AREAS IN SIRGITTI, BILASPUR DISTRICT

Rajani Patel¹⁻², Renu Nayar²

¹Government Higher Secondary School, Jhalmala, (C.G.)

²Department of Chemistry D.P. Vipra College, Bilaspur, (C.G.)

Abstract

Water is abundantly available on Earth, playing a crucial role in supporting life on our planet. Various factors, such as human population, industrialization, deforestation, and people's lifestyles, influence the quality, strength, and composition of sewage. To gain insights into the groundwater bodies in the Sirgitti industrial area, we conducted analytical explorations on selected physico-chemical parameters. In this comparative study, water samples were collected from two different locations: the residential and industrial areas of Sirgitti in Bilaspur district. The collected water samples underwent laboratory testing to analyze specific physico-chemical parameters, including pH, EC, TDS, DO, COD, total hardness, fluoride, and chloride. The analysis followed standard methods recommended by APHA and WHO for drinking water quality. By comparing the obtained values with the standard limits, we discovered that the physico-chemical parameters in the industrial area exceeded the maximum permissible limits set by WHO, exhibiting variations in some parameters. Both groundwater sampling stations were found unsuitable for domestic, irrigation, and drinking purposes. However, the groundwater in the industrial area of BEC fertilizers showed higher levels of pollution compared to the Adarsh Nagar residential area of Sirgitti. Therefore, it is crucial to regularly monitor the quality of groundwater and implement necessary treatment measures before its direct usage.

Keywords: Physico-chemical parameters, Residential and Industrial area, TDS, DO, and Total hardness.

ATTESTED

PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

CHAPTER 24

SMART ENVIRONMENTAL MONITORING USING IOT TECHNOLOGY

Richa Handa

Department of Computer Science
D.P. Vipra College, Bilaspur (C.G.)

Abstract

The Internet of Things (IoT) is now become the most important technology from last two decades. IoT is embedded with various technologies, sensors and software for connecting devices together, so that the information from one device to another can be exchanged over the internet. IoT also plays an important role in quality improvement of atmosphere. The sensors can be used to help the devices to monitor the environmental impact on the cities like air quality in crowded areas, parks, or fitness centres. IoT-enabled water quality also be monitored by installation of smart water sensors at home. It also helps to track our fitness by using smart watches. Here in Drone technology has been used to prevent and fight forest fires. These devices can also help monitor woods, rivers, lakes, oceans and monitor the movements of wildlife and their habitats. So, we can say that IoT is a technology which not only benefits businesses but is also an ecofriendly technology which benefits the environment as well as mankind as whole.

Keywords: Internet of Things (IoT), Sensors, Software, Drone, Environmental Monitoring

Introduction

Environmental monitoring is the process to capture the environmental data that shows how the environment around us behaves and affects our daily life and how to control the things that are harmful for our life. In the natural world, environmental monitoring focuses on air, soil, and water. For environmental monitoring the data are captured from various resources such as rainfall, soil composition, industries, parks, crowded areas, vehicle emissions to know the behaviour of water, soil, and air quality respectively.

ATTESTED

PRINCIPAL
(D.P. VIPRA COLLEGE
BILASPUR (C.G.))

The c
as via
peopl
imple
buildi
analyz
air mo
topogr
sampl
demog
to anal
enviro
Enviro
respon
on the

Literat
In thei
capabili
employ
levels an
research
IoT-base
based alg
fitness ap
Ghazino
informat
whether t
(2016) in
wireless
discharge

CHAPTER 25

SYNTHESIS OF NANOPARTICLE OF IRON OXIDE AND REMOVAL OF HEAVY METALS BY ADSORPTION

Vinit Nayar¹, Renu Nayar²

¹Department of Physics, CMD College, Bilaspur (C.G.)

²Department of Chemistry, D.P. Vipra College, Bilaspur (C.G.)

Abstract

Due to their infinitesimal size, nanoparticles possess a relatively expansive surface area, resulting in heightened reactivity and an inclination to sorb various heavy metals. This study was dedicated to investigating the sorption tendencies of nanoparticles of iron oxide (α -Fe₂O₃) and their potential for water purification concerning copper (Cu II) and nickel (Ni II). The experiment employed batch methodology, entailing the preparation of aqueous solutions containing the respective metallic ions. The α -Fe₂O₃ nanoparticles' adsorption behaviors towards these metallic ions were probed under diverse conditions of contact time, pH, temperature, α -Fe₂O₃ dosage, and metal concentration. For each metal, 10 mL of polluted aqueous solution was generated and treated with nanoparticles. The analysis of adsorption behaviors was executed by varying one condition while keeping the others constant. The set conditions comprised metal concentration at 1 ppm, α -Fe₂O₃ dosage at 0.35 g, contact time of 30 minutes, temperature at 22°C, and pH at 7. Results demonstrated that maximal percent removals (%) for all tested metals were achieved in a brief timeframe, specifically within 5 minutes. Notably, Cr(II) exhibited a maximal percent removal exceeding 99%, whereas copper metal attained a removal rate of 95%. An elevation in solution pH correlated with an augmentation in percent removal for all metals except aluminum, which followed a plateau pattern. For aluminum, the maximal percent removal manifested at pH 5, subsequently declining at higher pH values. The outcomes underscored the significance of morphologies in influencing the adsorption capacities of hematite. Several operational factors, encompassing adsorbent dosage, temperature, and the presence of multiple metal species, were explored. The hierarchy of affinity between heavy metals and the adsorbent adhered to the sequence: Cr(II) > Cu(II). The adsorption data fittingly conformed to the pseudo-second-order

ATTESTED

PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

[Handwritten signature in blue ink]

CHAPTER 27

HUMANITY, TECHNOLOGICAL EVOLUTION AND THE ENVIRONMENT

Renu Nayar

Department Of Chemistry
D.P. Vipra College, Bilaspur (C.G.)

Abstract

The progress we see today is a direct result of technological advancements, but it is important to recognize that humans are the driving force behind these advancements. Through years of study, analysis, experimentation, and learning from mistakes, scientists and the field of science have succeeded in inventing and revolutionizing our way of life. Technology has significantly transformed our era, and it is unimaginable to envision our lives without the presence of gadgets and gizmos. Equally important is the deep understanding and knowledge possessed by humans, which enables us to effectively utilize these technological advancements. The interdependence between technology and humans is what ensures the smooth functioning of our lives. Without human minds and sensitivity, technology alone would render the world mechanical and devoid of meaning. Conversely, the absence of technology would regress us to a primitive state and undo our progress. It is the harmonious growth and coexistence of both humans and technology that contribute to making the world a better place. Preserving this delicate balance is crucial for maintaining the sanctity of our existence.

Keywords: Technology, Humans, Revolution, Interdependency, Harmony

Introduction

The process of human evolution involves the progressive development and transformation of both plant and animal life from simpler forms to more complex ones. This gradual change results in the emergence of diverse plant and animal species that are distinct from their original counterparts.

CHAPTER 28

IMPORTANCE OF FUNGI IN HUMAN LIFE

Shikha Pahare, M.L. Jaiswal, Motilal Patle

Department of Botany
D.P. Vipra College, Bilaspur (C.G.)

Abstract

Fungi are everywhere in very large numbers. They are responsible for breaking down organic matter and releasing carbon, oxygen, nitrogen, and phosphorus into the soil and the atmosphere. Fungi are essential to many household and industrial processes, notably the making of bread, wine, beer, and certain cheeses. Fungi are important decomposers in most ecosystems. They are essential for the growth of most plants. Fungi are important to human life on many levels. They influence the well-being of human populations on a large scale because they are part of the nutrient cycle in ecosystems. They also have other ecosystem uses, such as pesticides. Fungi are an important part of soil biodiversity. They are closely interlinked with vegetation and carbon and nutrient cycling and are major drivers of soil health and carbon sequestration, among other ecosystem functions.

Keywords: fungi, human life, nutrient, soil biodiversity

Introduction

Fungi has both positive and negative roles in our daily life. So, they are our friends as well as enemies. The use of fungi in food production, Medicine and other industries underscores their economies significances. Additionally, fungi are employed in studies to get an in depth understanding of many biological processes. Fungi are eukaryote creatures that transmit a number of illnesses, but they also play a crucial role in quickening a number of biological processes. Fungi plays an important role in the ecosystem.

PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR, C.G.
ATTESTED
[Signature]

CHAPTER 29

IMPACT OF HUMAN ACTIVITIES ON THE ENVIRONMENT

M.S. Tamboli

Department of Public Administration
D.P. Vipra College Bilaspur (C.G.)

Abstract

Modern environmental science documents and understands the ways in which human impacts on the Earth interact with other processes of global change. This understanding essential for establishing the consequences of further population growth and increased economic activity, with all their implications in terms of higher demands on energy, water and a wide range of resources, both renewable and non-renewable. The purpose of the present chapter is to study human impacts on the environment to obtain an enhanced view of potential future changes and impacts.

Keywords: environment, humans, adverse impacts, activities

Introduction

The environment means a surrounding where we meet, we live, and we breathe. It is one of the basic essential things for living beings. The word Environment includes all biotic and abiotic things which are present around us. It provides fundamental things like air, water, food, and land which is very important for our well-being. There are various types of human activities which are directly contributing to environmental disasters such as acid rain, acidification of oceans, change in the climate, deforestation, depletion of an ozone layer, disposal of hazardous wastes, global warming, overpopulation, pollution etc. It includes all biotic factors or living forms like plants, animals, and microorganisms. It includes non-living factors like temperature, light, rainfall, soil, minerals, etc. It comprises the atmosphere, lithosphere, and hydrosphere. All of us live in two worlds. One is the human world, which includes populations, countries, cities, roads, rail lines, shipping lanes and flight paths. It is the most familiar world, and we consciously interact with it every day. It is a world entirely of our construction. It is the world of civilization, of education and of science. The

CHAPTER 30

THE TRANSFORMATIVE POWER OF EGDON HEATH IN THOMAS HARDY'S "THE RETURN OF THE NATIVE"

Oorja Ranjan Sinha
Department of English
D.P. Vipra College, Bilaspur (C.G.)

Abstract

Thomas Hardy's novel, "The Return of the Native", is widely regarded as a masterpiece of English Literature, celebrated for its richly detailed characters and its vivid description of the Wessex landscape. Among the many natural elements that shape the narrative Egdon Heath stands out as a haunting and enigmatic presence. With its timeless allure and its powerful symbolism, Egdon Heath functions as a mere backdrop; it becomes a dynamic character in its own right, exerting a profound influence on the story's events and the developments of the novel's themes. The novel stands as a testament to the enduring power of Nature and its profound impact on the human experience.

Illustration

Egdon Heath serves as a potent symbol throughout the novel, embodying the ruggedness and wildness of Nature. Its vastness and desolation mirror the inner turmoil and isolation experience by the characters. Hardy describes the Heath as ancient force, indifferent to human affairs, perpetuating a sense of timeless and inevitability. It represents a primordial landscape untouched by modern civilization, where human struggles are played out against the backdrop of Nature's eternal cycles. It embodies various themes and ideas. Its vast expanse and wild beauty represents the supplying power of Nature evoking a sense of awe and reverence in the characters and readers alike. It serves as a physical manifestation of the characters' emotional and psychological landscapes, mirroring their joys, sorrows and internal conflicts. Furthermore, it symbolizes the eternal cycle of life and the forces of destiny that govern human existence.

Egdon Heath plays a central role in exploring the novel's themes of fate, determinism and tragedy. Hardy portrays the Heath as an uncaring and relentless force, subjecting the characters to

CHAPTER 31

PREPARATION OF SILVER NANOPARTICLES AND THEIR INDUSTRIAL, BIOMEDICAL APPLICATIONS: AND REMOVAL OF HEAVY METAL ION

Pradeep Kumar Jaiswal¹, Manish Upadhayay², Manish Tiwari¹

¹ D.P. Vipra College, Bilaspur (C.G.)

²The ICFAI University, Raipur (C.G.)

Abstract

Silver nanoparticles (NPs) have been the subjects of researchers because of their unique properties (e.g., size and shape depending optical, antimicrobial, and electrical properties). A variety of preparation techniques have been reported for the synthesis of silver NPs; notable examples include, laser ablation, gamma irradiation, electron irradiation, chemical reduction, photochemical methods, microwave processing, and biological synthetic methods. This review presents an overview of silver nanoparticle preparation by physical, chemical, and biological synthesis. The aim of this review article is, therefore, to reflect on the current state and future prospects, especially the potential and limitations of the above-mentioned techniques for industries.

Keywords: Silver nanoparticles, electrical properties, chemical reduction

Introduction.

Currently, improving and protecting our environment using green chemistry has become important issues in many fields of research. The most promising approach for generating new fields in biomedical sciences is the pharmaceutical application of nanoparticles (NPs). Due to the ascension of the industrial era and explosion of world population large amount of hazardous chemicals and gases released in environment in which adversely affecting our nature. To avoid this and to protect our nature, currently we world is focusing on the development of natural products nanoparticles. Biomolecules are highly compatible with nanotechnology which makes unique assembly for development of metal nanoparticles of biological molecules which are authentic and cost effective. From the ancient era novel medicinal potential of silver has been known and proven for its

ATTESTED

PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

(Handwritten signature in blue ink)

MEET THE EDITORS

Dr. Renu Nayar holds an M.Sc. in Chemistry from Avdhesh Pratap University, Rewa (M.P.), India, and a Ph.D. from Guru Ghasidas University, Bilaspur (C.G.), recognized for her groundbreaking groundwater pollution research. She's an Assistant Professor in the Department of Chemistry at D.P. Vipra College, Bilaspur (C.G.), with a 24-year career educating undergraduates and postgraduates. Beyond teaching, she's active in cutting-edge scientific exploration, research collaboration focusing on environmental chemistry, computational chemistry, and



toxicology, also advancing water purification technologies and material science. She's secured research projects from institutions like UGC and Chhattisgarh's State Planning Commission. With a patent and 40+ research papers in UGC and Scopus journals, she's a respected author/editor of six books and two e-books. Lifetime memberships with International Science Community Association, Indian Association of Nuclear Chemists and Allied Scientists and Breakthrough Science societies underline her academic prominence.

Dr. Manish Tiwari has obtained his M.Sc. in Chemistry and has been awarded Ph.D. in Chemistry by Guru Ghasidas University, Bilaspur (C.G.). He serves as Assistant Professor of Chemistry at the D.P. Vipra College. He has 24 years of teaching experience. He is engaged in research on Water Pollution and Material Science and successfully completed research projects sanctioned by the University Grant Commission in Bhopal. Currently,



he is actively working on different committees related to NAAC. He has published around 60 research papers in international and national journals as well as Chapters in different books. One of his students has been awarded PhD while a few are currently pursuing Ph.D. under his guidance.

महिला सशक्तीकरण



ATTESTED
श्रीमती दुबे
PRINCIPAL

डॉ. (श्रीमती) किरण दुबे

इस पुस्तक के सर्वाधिकार सुरक्षित हैं। प्रकाशक, लेखक की लिखित अनुमति के बिना इस पुस्तक या इसके किसी भी अंश का किसी भी माध्यम से अथवा ज्ञान के संग्रहण एवं पुनःप्रयोग की प्रणाली द्वारा, किसी भी रूप में, पुनरुत्पादित अथवा संचारित-प्रसारित नहीं किया जा सकता, इसे संक्षिप्त, परिवर्धित कर प्रकाशित करना कानूनी अपराध है।

ISBN : 978-93-93403-14-8

पुस्तक : महिला सशक्तीकरण
लेखिका : डॉ. (श्रीमती) किरण दुबे
कापीराइट : प्रकाशक
प्रकाशक : समता प्रकाशन
बजरंगनगर, रूरा- कानपुर (देहात) 209303
ई-मेल : Mob. : 9450139012, 7007749872
samataprakashanrura@gmail.com
संस्करण : प्रथम, 2023 ई.
मूल्य : 800.00 रुपये मात्र
शब्द-सज्जा : रुद्र ग्राफिक्स, कानपुर
मुद्रक : सार्थक प्रेस, कानपुर

MAHILA SASHAKTIKARAN
By : Dr. (Smt.) Kiran Dubey
Price : Eight Hundred Only.

ATTESTED
DR. KIRAN DUBEY
PRINCIPAL
D.P. VIPRA COLLEGE
KANPUR

अनुक्रम

1.	विषय प्रवेश	01
2.	भारत में महिलाओं की स्थिति	30
3.	महिलाओं के लिए दैनिक चुनौतियाँ	41
4.	महिलाओं का शैक्षिक सशक्तीकरण	64
5.	महिलाओं का सामाजिक सशक्तीकरण	95
6.	महिलाओं का आर्थिक सशक्तीकरण	119
7.	महिलाओं का राजनीतिक सशक्तीकरण एवं नेतृत्व क्षमता का विकास	148
8.	निष्कर्ष	182
	संदर्भ ग्रंथ सूची	199

ATTESTED

PRINCIPAL
D.P. VIPRA COLLEGE
GUR (C.G.)

1

विषय परिचय

महिला सशक्तीकरण से जुड़े सामाजिक, आर्थिक, राजनैतिक और कानूनी मुद्दों पर सचेदनशीलता और सरोकार व्यक्त किया जाता है। सशक्तीकरण की प्रक्रिया में समाज को पारंपरिक पितृसत्तात्मक दृष्टिकोण के प्रति जागरूक किया जाता है, जिसने महिलाओं की स्थिति को सदैव कमतर माना है। वैश्विक स्तर पर नारीवादी आंदोलनों और यूएनडीपी आदि अंतर्राष्ट्रीय संस्थाओं ने महिलाओं के सामाजिक समता, स्वतंत्रता और न्याय के राजनीतिक अधिकारों को प्राप्त करने में महत्वपूर्ण भूमिका निभायी है। महिला सशक्तीकरण, भौतिक या आध्यात्मिक, शारीरिक या मानसिक, सभी स्तर पर महिलाओं में आत्मविश्वास पैदा कर उन्हें सशक्त बनाने की प्रक्रिया है।

सशक्तीकरण शब्द का अर्थ

सशक्तीकरण शब्द का विच्छेद है सशक्तीकरण जिसमें 'स' उपसर्ग है। शक्ति शब्द है। विशेषण तथा करण प्रत्यय से मिलकर शब्द बना है सशक्तीकरण इसका ध्वनि अर्थ है शक्ति सहित गत्यात्मकता (गति)। सशक्तीकरण एक विकासात्मक प्रक्रिया है। चलने वाली निर्बल के सबल बनने की प्रक्रिया एक पूर्ण सशक्त व्यक्ति वह है जो अपने जीवन से संबंधित निर्णय लेने में पूरी तरह स्वतंत्र हो, सामाजिक संदर्भों में व्यक्ति पर विवाह, संतानोत्पत्ति तथा व्यवसाय आदि से संबंधित विषयों पर घरेलू अथवा सामाजिक स्तर पर किसी प्रकार का दबाव न हो। इस प्रकार स्त्रियों के संदर्भ में सशक्तीकरण की अवधारणा अत्यधिक महत्वपूर्ण हो जाती है।

ATTESTED

श्री. ज. प्रियंका

PRINCIPAL
P. P. VIPRA COLLEGE
(C. G.)



समता प्रकाशन

प्रकाशक एवं पुस्तक विक्रेता

बजरंगनगर, रूरा, कानपुर (देहात)-209303
(उत्तर प्रदेश)

मो० 09450139012, 07007749872

E-mail : samataprakashanrura@gmail.com
visit us : sankalpprakashan.com

available on **amazon.in** 

ISBN 978-93-93403-14-8



9 789393 403148

₹800/-

ATTESTED
प्रिन्सिपल
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

Bholwa Bholaram Banis

Edited by *Padmashree Pt. Shivamlal Chaturvedi*

WHEN 'BHOLWA' TURNED TO 'BHOLARAM'

(English Translation of Chhattisgarhi Short Stories)



ATTESTED

Dr. Sushma Sharma
PRINCIPAL
D.P. MIPRA COLLEGE
BILASPUR (C.G.)

Edited by
Dr. (Smt.) Sushma Sharma

Bholwa Bholaram Banis

penned by Padmashree Pt. Shyamlal Chaturvedi

WHEN 'BHOLWA' TURNED TO 'BHOLARAM'

(English Translation of Chhattisgarhi Short Stories)

Translator

Dr. Annoo Bhai Soni

(M.Com, L.L.M., Ph.D. (Law))

Principal

D.P. Vipra Law College, Bilaspur (C.G.)

Edited by:

Dr. (Smt.) Sushma Sharma

(M.A., Ph.D., M.J.M.C.)

Asstt. Professor, Sociology

D.P. Vipra College, Bilaspur (C.G.)

ATTESTED

अनूप भाई सोनी

PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

Sankalp Prakashan

KANPUR-208 021 (INDIA)

ISBN : 978-93-91435-88-2

Price : 195/-

Book Name:

Bholwa Bholaram Banis

Edited by :

Dr. (Smt.) Sushma Sharma

© Reserved

Second Published : 2024

Typesetting :

Rudra Graphics

[All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, mechanical, photocopying, recording or otherwise, with out prior written permission of the publishers]

Published by

SANKALP PRAKASHAN

1569/14, New Basti, Baktauri Purwa,

Brashpati Mandir, Naubasta, Kanpur-208021

Mob. : 94555 89663, 70077 49872

Email - sankappakashankanpur@gmail.com

ATTESTED

(Handwritten signature in green ink)

PRINCIPAL
(D.P. VIPRA COLLEGE
BILASPUR (O.G.)

PRINTED IN INDIA

Printed at Puja Offset, Kanpur.

flexibility

workplace

Pay

+

\$

COVID-19

Teleworking

कोविड-19 का व्यापार और उद्योग पर प्रभाव

संपादक : डॉ. (श्रीमती) अंजू शुक्ला
उप-संपादक : डॉ. खगेन्द्र सोनी

ATTESTED

PRINCIPAL
D.P. VEDRA COLLEGE
BILASPUR (C.G.)

कोविड-19 का व्यापार और उद्योग पर प्रभाव

संपादक
डॉ. (श्रीमती) अंजू शुक्ला
उप-संपादक
डॉ. खगेन्द्र सोनी



संकल्प प्रकाशन
कानपुर (उ.प्र.)

ATTESTED

अंजू शुक्ला
PRINCIPAL
D. P. VIPRA COLLEGE
BILASPUR (C.G.)

अनुक्रम

1. कोरोना का समाज एवं अर्थव्यवस्था पर प्रभाव डॉ. (श्रीमती) अंजू शुक्ला	11
2. कोविड-19 का सामाजिक जीवन पर प्रभाव डॉ. एम.एस. तम्बोली	19
3. सूक्ष्म लघु और मध्यम उद्यमों पर कोविड -19 महामारी का प्रभाव पूजा त्रिपाठी, ज्योति वर्मा	22
4. सूक्ष्म, लघु और मध्यम उद्योगों पर कोविड-19 महामारी का प्रभाव डॉ. शरद कुमार देवांगन	25
5. महामारी के दौरान तथा बाद में अर्थव्यवस्था पर प्रभाव शुरभि पाण्डेय	27
6. महामारी के दौर में सार्वजनिक वितरण प्रणाली की भूमिका मो. नदीम, श्री ए. के. सोनी	36
7. कोविड-19 का उद्योग और व्यापार पर प्रभाव डॉ. मेघा दामडकर	47
8. उपभोक्ताओं के क्रय व्यवहार पर कोविड-19 का प्रभाव श्रीमती नमन गुप्ता	50
9. Effects of Covid-19 on Enterprises and Sectors Dr. Khagendra Soni	53
10. COVID-19 And the Indian Economy: Effects on MSME Sector Growth in Manufacturing and Trade Mr. Jayanta Roy, Mr. Prakash Chaturvedi	66
11. Impact of Digital Payment System during Covid-19 Pandemic in India A. Sri Ram	80
12. A study on Impact of Covid 19 on Consumer buying Behavior Dr. Supriya Singh, Dr. Priyank Mishra	86
13. A Study of Consumer buying behaviour during COVID-19 Pandemic Situation with special reference to Bilai Cty Dr. Ranjeeta Tiwari Mishra, Ms. Suman Sahu	95
14. COVID-19 and its Impact on Society Smt. Rashmi Dubey, Dr. Priyank Mishra	101
15. Impact of Covid-19 On Telecom Sector in India - A Review Dr. Smt. Preeti Shukla, Smt. Sumela Chatterjee, Shri. Bijoy Karmakar	105

ATTESTED

श्रीमती अंजू शुक्ला
FINANCIAL
D.P. VIPRA
BILASPUR (C.G.)

16. Effects of Covid-19 Lockdown : Unorganised Sector Faces Adverse Situation and An Uncertain Future
Neha Khilwani, Dr. B.B. Pandey
17. Effect of Covid-19 on kids and their mental conduct - An investigation
Dr. Indu Santosh, Dr. Trapti Saxena
18. Impact of Covid-19 On Educational Sector
Nisha Yadav
19. Strategies to Overcome The Restaurant Business Loss During Covid-19 Pandemic
Chandni Sharma, S.N. Jha
20. Influence of Corona Virus (Covid-19) Pandemic on Indian Economy : How Indian Economy Was Restructured
Neelam Singh, Dr. O.P. Gupta
21. Effect of Covid-19 Pandemic On The Buying Behaviour of Consumers in Chhattisgarh
Dr. Bhuvana Venkatraman, Vidya Raisagar
22. Covid-19 : A Curse to Indian Economy
Riya Goel, Dr. B.B. Pandey
23. Psychological Effects of COVID-19 Pandemic on Society and Its Reflections on Education
Miss Vaishali Agrahari, Dr. Supriya Singh
24. Impact of COVID-19 Pandemic on savings and investment behaviour of households
Dr. Jaya Chawla

ATTESTED

PRINCIPAL
D.P. VIPRA COLLEGE
ULASPUR (C.G.)

कोरोना का समाज एवं अर्थव्यवस्था पर प्रभाव

डॉ. (श्रीमती) अंजू शुक्ला

कोरोना एक ऐसा भयावह खौफनाक बीमारी का नाम है जिसके स्मरण मात्र से भी मानवता कांप जाती है। मनुष्य का आत्मा कांप उठता है। त्राहि-त्राहि मचा देने वाले कोरोना का यदि हम समाज एवं अर्थ व्यवस्था पर प्रभाव के मूल्यांकन का अध्ययन करें तब तो क्षति का हिसाब लगाना भी मुश्किल है। चारों तरफ भय, निराशा, मृत्यु का आंतक को राम, जीवन रक्षा के लिए हाहाकार करता जन जीवन को कोरोना महामारी के दुष्परिणाम का बयान कर रहा है।

इस भयंकर बीमारी जो छूने से लगता है, संक्रमण से करोड़ों मानव काल कल्वित हो गया। जो कोरोना के संबंध में मान्यता है कि कोरोना लैटिन भाषा का है जिसका अर्थ मुकुट है अर्थात् सूक्ष्मदर्शी यंत्र से इसका स्वयं मुकुट तरह दिखता है। इसी कारण इस बीमारी का नाम कोरोना कहा है। कोरोना को मृत प्रोटीन माना गया है और यह मानव निर्मित वायरस माना गया है। चूंकि यह वायरस वेटलेस है। कोरोना का संक्षिप्त बव.अपतने और 2019 संक्षिप्त 2019 इस प्रकार कोरोना वायरस बीमारी का संक्षिप्त नाम कोविड-19 रखा गया। कोरोना वायरस विषाणुओं का ऐसा समूह है, जो मनुष्य के श्वास तंत्र में संक्रमण पैदा कर सर्दी, जुकाम, बुखार से लेकर मृत्यु तक का कारण बन जाता है। यहाँ बीमारी व्यक्ति के प्रतिरक्षा प्रणाली को खोखला कर देता है। चूंकि तत्कालिक समय से एण्टी वायरस या वैक्सीन ना होने के कारण इसका उपचार संक्रमित की स्थिति में दुश्कर एवं संकुचित था।

कोरोना वायरस इतना विशाल और विनाशकारी था। इसके कारण संपूर्ण विश्व की समाज व्यवस्था एवं आर्थिक तंत्र व्यवस्था ठप पड़ गया। अर्थ के प्रयुक्त आधार शिक्षा और स्वास्थ्य होता है किसी भी देश की न्याय, अर्थ, कानून, अनुशासन, सामाजिक समरसता जीविकोपार्जन, जीवन शैली, जी.डी.पी. को प्रभावित करता है।

कोरोना वायरस जिस समय चीन के बुहान शहर से विश्व भर में फैलकर 1 दिसम्बर 2019 को डॉ. लोग इलाज करते हुए संक्रमित होने लगा। दिसम्बर 2019 के अंत तक बुहान शहर के अस्पताल संक्रमित मरीजों से भर गया। 14 जनवरी तक Who (विश्व स्वास्थ्य संगठन) में हुए गंभीरता से नहीं लिया चीन के

कोविड-19 का सामाजिक जीवन पर प्रभाव

डॉ. एम.एस. तम्बोली

कुछ महीनों पहले किसी ने कल्पना नहीं की थी कि पूरे संसार में एक ऐसी महामारी फैल जाएगी, जिसका इंसान के पास कोई इलाज ही नहीं है। सारे संसार के वैज्ञानिक और डाक्टर कोरोना का इलाज करने के लिए दवाई की खोज कर रहे हैं। परन्तु उन्हें सफलता नहीं मिल रही है। प्रश्न यह है कि इस स्थिति में इस महामारी पर कैसे काबू पाया जायेगा? सरकार ग्रामीण स्तर पर उन्नत स्वास्थ्य सेवायें पहुंचायेगी। प्रधानमंत्री जी ने यह अच्छा किया कि पूरे देश में लाक-डाऊन करके लोगों की जान बचाने की कोशिश की परन्तु जिस तरह से यह बीमारी फैल रही है उसने लाकडाऊन या अन-लाकडाऊन कितने दिनों तक प्रभावी रहेगा, यह कहना फिलहाल बहुत कठिन है।

भारतीय उद्योग की स्थिति— कोरोना महामारी होने के पहले से ही विगड़ी हुई थी। जितनी भी रेटिंग एजेंसियाँ हैं उन्हें भारत के विकास दर के वृद्धि अनुमान में लगतार गिरावट दर्ज कराई थी। उन्होंने बताया था कि भारत में महंगाई और बेरोजगारी दर उच्च स्तर पर है।

ऐसे में कोरोना महामारी के चलते जिस तरीके से भारत तथा विश्व के अधिकांश देशों में पूर्ण लॉकडाउन नीति अपनाई गई है, उससे ना केवल भारत को बल्कि विश्व को हर देश को आर्थिक एवं सामाजिक कीमत चुकानी पड़ेगी।

जागरूकता ही कोरोना से बचाव एकमात्र उपाय है— पहला सवाल यह उठता है कि क्या इस महामारी से गिरने का कोई और दूसरा रास्ता नहीं था? बहुत हद तक इसका उत्तर ना है। क्योंकि इस महामारी से निपटने के लिए अभी तक कोई वैक्सीन इजाजत नहीं हो पाई है। बचाव, जागरूकता एवं एकांतवास की इस समस्या से निपटने में कारगर है, जिसे तमाम देश ने अपना रखा है।

आर्थिक प्रभाव के साथ-साथ सामाजिक प्रभाव— अगर हम इस प्रश्न के उत्तर का विस्तार पूर्वक विचार करें तो हम पायेंगे कि इस महामारी के चलते पहला नकारात्मक प्रभाव तो आर्थिक ही होगा। जिसका विश्लेषण किया जाए तो शायद उस पर पूरी एक किताब लिखी जा सकती है। इस वैश्विक महामारी से उत्पन्न सामाजिक प्रभावों पर विचार करना है। जो तत्काल या आंशिक रूप से देखने को मिल सकते हैं।

ATTESTED
D.P. VIPRA C
BILASPUR

कोविड-19 का उद्योग और व्यापार पर प्रभाव

डॉ. मेघा दामडकर

प्रस्तावना

कोरोना वायरस डिजीज जो 2019 में महामारी बन कर आया और पूरे विश्व को जिसने अपनी गिरफ्त में लेकर हाहाकार मचाया उसे ही कोविड-19 कहते हैं। इसका सीधा अर्थ यह है कि 2019 के पहले भी कोरोना वायरस था किन्तु जिस नई संरचना के साथ यह कहा गया 2019 में देखा गया उसे ही कोविड-19 प्रयोगशाला में विकसित किया गया माना जाता है। बड़े आश्चर्य की बात है कि 2019 दिसंबर में पूरे भारत में केरल राज्य में कोविड-19 का पहला शिकार मिला और मार्च-एप्रिल आते आते यह पूरे भारत में फैल गया। विश्व का शायद ही कोई देश ऐसा रहा होगा जहाँ कोविड-19 ने हमला न किया हो। अर्थात् यह पेन्डेमिक बन गया था।

उद्योग पर प्रभाव (प्रतिकूल)— निर्माण उद्योग पर कोविड-19 का विशेष प्रभाव रहा खासकर जिन उद्योगों में मेन पॉवर का अधिकाधिक उपयोग होता है। ऐसे उद्योग कोविड-19 लॉक-डाउन से प्रभावित हुये। कामगारों की छुट्टी कर दी गई। बिना यह सोचे की उद्योग बंद हो जाने से उद्योगपति विशेष फर्क नहीं पड़ेगा। लेकिन मजदूरों का जो दुसरे प्रांत से आये है उनका रोजगार बिना घर कैसे चलेगा। या फिर मजदुर अपने घर वापस कैसे जायेंगे। और हुआ भी ऐसा ही कुछ दिन तक तो उद्योगपतियों ने भोजन और वेतन की व्यवस्था की लेकिन जल्द ही यह सुविधा खत्म कर कारखानों पर ताला लगा दिया। दहसत के मारे मजदूर जो साधन मिला उसी से अपने घर वापस हुये। कुछ तो जहारों कि.मी. पैदल ही चलकर वापस घर आ गये। ट्रेन, बस, ट्रैक्टर, ट्रक जो भी मिला उसी से लौटने लगे। वामपंथी विचारधारा वाले तथा अराजकता फैलाने वाले उस औसर का भरपुर लाभ उठाया। श्रमिक संघों का कारखानों मिलों, उद्योगों को बंद कराने का प्रयास सफल रहा।

उद्योग पर प्रभाव (अनुकूल)— चूंकि कोविड-19 जानलेवा संक्रमिक रोग था इसके लिए दवा उद्योग में विटामिन-सी, पैरासीटामॉल, क्लोरोक्वीन का जबरदस्त उत्पादन कर अपने उत्पात को उचे दामों पर बजार में भेजा। लोगों ने अधिक दाम पर भी दवा खरीदी। हेन्ड वास, सेनेटाईजर बनाने वाले कुटीर उद्योग,

ATTESTED

20/5/2020

DR. MEHA DAMADKAR

SRINIVASA COLLEGE

ELURU (S.R.)

Effects of Covid-19 on Enterprises and Sectors

Dr. Khagendra Soni

ABSTRACT

The coronavirus has the entire world in its grip. The virus is spreading so widely that it has forced the World Health Organization (WHO) to declare a pandemic. The virus outbreak is having hitherto unheard-of effects on the world economy. In the context of a deteriorating economic environment brought on by the coronavirus, Indian industry must bear a heavy financial burden and dire repercussions. Therefore, the purpose of this article is to examine how the coronavirus has affected various areas of the Indian economy, to emphasize the ways in which India stands to gain during the post-pandemic phase, and, most importantly, to outline the business survival strategies that are essential for navigating this challenging environment.

Keywords: Coronavirus, India, Economy, Sectors, Strategy, Pandemic

I. OVERVIEW

A serious threat to millions of people worldwide is the Novel Coronavirus illness outbreak. In addition to harming people's health, it has devastating effects on the world of international business, upending trade and commerce and causing instability throughout the entire economic system. The infections' initial outbreak was discovered in Wuhan, China, in December 2019. The World Health Organization (WHO) declared it a public health emergency of international concern on January 30, 2020, after closely observing and evaluating its global threats. The virus began spreading at a never-before-seen rate in several nations worldwide, prompting the World Health Organization to declare it a pandemic on March 11, 2020. The entire planet is currently battling this invisible but deadly foe. The entire planet is currently battling this invisible but deadly foe. Everything seems to be coming to a complete

COVID-19 And the Indian Economy: Effects on MSME Sector Growth in Manufacturing and Trade

*Mr. Jayanta Roy

**Mr. Prakash Chaturvedi

SYNOPSIS

The goal of the study is to evaluate the effects of COVID-19 on the Indian economy by examining how it affects trade, manufacturing, growth, and the micro, small, and medium-sized company (MSME) sector. It also identifies important policy initiatives to mitigate any potential negative effects on the economy. The pandemic has had a significant impact on the Indian economy across all sectors, in various lockdown scenarios (full, prolonged, partial), and at varying levels of capacity utilization. In the best-case scenario, India's economy might scrape together a positive growth of 0.7 percent for 2020, but in the worst-case scenario, it could expand negatively by 7 percent. The manufacturing, trade, and MSME sectors are severely impacted. The manufacturing sector may contract from 5.5 to 20 percent, exports from 13.7 to 20.8 percent, imports from 17.3 to 25 percent, and MSME net value added (NVA) from 2.1 to 5.7% in 2020 compared to the previous year are the likely effects (deceleration) of COVID-19 from the best-case scenario to the worst scenario. The economy is on the verge of entering a recession, and this calls for methodical, focused, and forceful fiscal-monetary stimulus programs.

OVERVIEW

After the 1930s Great Depression, the COVID-19 epidemic has likely dealt the world economy its greatest hit. With no known medical cure for the coronavirus, around 60% of the world's population is either severely or partially under lockdown, and millions of people's livelihoods

Impact of Digital Payment System during COVID-19 Pandemic in India

A. Sri Ram

Abstract

Digital payment is emerging as a new financial instrument during the COVID-19 pandemic. Previously we relied on traditional payment methods but during the outbreak of the COVID-19 pandemic digital monetary transactions emerged as an alternative medium for the exchange of currency through online payment systems. The present study focuses on the concept of digital payment along with the impact of the digital payment system during the COVID-19 pandemic in India. This study also attempts to analyze the shift to non-cash payments from cash payments and how covid-19 pandemic has made its contribution towards cash to a cashless economy. The present secondary research aims at the value of digital payment systems with the availability of various digital payment systems in India.

Keywords: Digital payment, COVID-19, monetary transaction, cashless economy.

Introduction

Similar to the world economy, the Indian economy was badly impacted by the once-in-a-century Corona pandemic over the whole 2020–21 fiscal year. However, the retail industry has seen a boom in digital payments during the pandemic-affected time, staying true to its robust nature and supported by strong fundamentals. In comparison to the pre-pandemic financial year 2019/20, there has been a notable increase in both volume and value terms in the digital payments (retail) during the pandemic-hit financial year 2020/21. 37,512.73 million Digital payment transactions in the retail segment were reported in 2020–2021 compared to 26,493.23 during the financial year 2019–20's pre-pandemic period, representing a 42% increase. The aggregate value of transactions increased by 3%, from 160,923.65 billion to 165,529.97

billion. Post digital pa transaction 19 pandem country's c downturns outbreak.

Literature

Accor rise in the a norms and s outcomes of According t digital curre could spread electronic pa

In their central bank consumer co Certain action In their study infrastructure 2008 Global address the p economic imp in 2020, acco employed at t According to decline in we anticipated th roughly 23.1% of digital paym research will b system has ma outbreak.

Techniques

The stud

को

Impact of Covid-19 On Telecom Sector in India - A Review

*Dr. Smt. Preeti Shukla

**Smt. Sumela Chatterjee

***Shri. Bijoy Karmakar

ABSTRACT

The telecom industry is one amongst the fastest-growing sectors in India. So this text goes to trace the effect of Covid-19 or corona virus pandemic on the telecom industry. The report is additionally visiting comprehend consumer retention after the entry of Reliance Jio. The articles also discuss how reliance Jio affects the telecom industry. It will highlight all the present changes within the telecom industry. Here we even have the explanations to debate why a giant market player Vodafone and Airtel should change their marketing strategy? Global telecom service providers play a big and vital role within the ongoing Covid-19 pandemic. Before the pandemic, people choose their workplace to try and do their add one network, but while being reception, this thing isn't possible after the announcement of the govt. that each one the official(private sector) should work from home. The burden on telecom grows up to 40-60%, whereas peoples who are reception and having nothing to try and do with outings they like to like chatting, browsing, surfing, playing games, and far more stuff, which puts an additional load of service provided. But the way the telecom industry handles things is much better than expected.

INTRODUCTION

The COVID19 virus is one in every of the most important pandemics for the planet, and to urge out of this government are taking essential steps for their countries and states. But the economy of the globe is additionally at the worst point of things. It has never been before the economy has come at this time. Because of COVID19, the trading and manufacturing of the merchandise are banned. Those are



संकल्प प्रकाशन

1569/14, नई बस्ती बक्तौरीपुरवा
बृहस्पति मन्दिर, नौबस्ता, कानपुर-208021
Mob. : 70077-49872, 94555-89663
Email : sankalpprakashankanpur@gmail.com

₹ 1000/-

ISBN 978-93-91435-66-0



9 789391 435660 >

ATTESTED

डॉ. वि. प्रकाश
D.P. VIPT
BILASPUR (C.S.)

Smart Technologies for Engineers and Scientists

APPLICATIONS OF MATHEMATICAL MODELING, MACHINE LEARNING, AND INTELLIGENT COMPUTING FOR INDUSTRIAL DEVELOPMENT



EDITED BY
MADHU JAIN
DINESH K SHARMA
RAKHEE KULSHRESTHA
AND **H.S. HOTA**

ATTESTED
D.P. VIKAS
BILASPUR



CRC Press
Taylor & Francis Group

Applications of Mathematical Modeling, Machine Learning, and Intelligent Computing for Industrial Development

The text focuses on mathematical modeling and applications of advanced techniques of machine learning, and artificial intelligence, including artificial neural networks, evolutionary computing, data mining, and fuzzy systems to solve performance and design issues more precisely. Intelligent computing encompasses technologies, algorithms, and models in providing effective and efficient solutions to a wide range of problems, including the airport's intelligent safety system. It will serve as an ideal reference text for senior undergraduate, graduate students, and academic researchers in fields that include industrial engineering, manufacturing engineering, computer engineering, and mathematics.

The book-

- Discusses mathematical modeling for traffic, sustainable supply chain, vehicular Ad-Hoc networks, and internet of things networks with intelligent gateways.
- Covers advanced machine learning, artificial intelligence, fuzzy systems, evolutionary computing, and data mining techniques for real-world problems.
- Presents applications of mathematical models in chronic diseases such as kidney and coronary artery diseases.
- Highlights advances in mathematical modeling, strength, and benefits of machine learning and artificial intelligence, including driving goals, applicability, algorithms, and processes involved.
- Showcases emerging real-life topics on mathematical models, machine learning, and intelligent computing using an interdisciplinary approach.

The text presents emerging real-life topics on mathematical models, machine learning, and intelligent computing in a single volume. It will serve as an ideal text for senior undergraduate students, graduate students, and researchers in diverse fields, including industrial and manufacturing engineering, computer engineering, and mathematics.

20
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

ATTESTED

Smart Technologies for Engineers and Scientists
Series Editor: Mangey Ram

**Applications of Mathematical Modeling, Machine Learning, and Intelligent
Computing for Industrial Development**
Madhu Jain, Dinesh K. Sharma, Rakhee Kulshrestha, and H.S. Hota

ATTESTED

मधु जैन

D.P. VIPRA COLLEGE
BILASPUR (C.G.)

Applications of Mathematical Modeling, Machine Learning, and Intelligent Computing for Industrial Development

Edited by
Madhu Jain
Dinesh K. Sharma
Rakhee Kulshrestha
H. S. Hota



CRC Press
Taylor & Francis Group
Boca Raton London New York

CRC Press is an imprint of the
Taylor & Francis Group, an **informa** business

ATTESTED

Handwritten signature in green ink.

From
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

First edition published 2023
by CRC Press
6000 Broken Sound Parkway NW, Suite 300, Boca Raton, FL 33487-2742

and by CRC Press
4 Park Square, Milton Park, Abingdon, Oxon, OX14 4RN

CRC Press is an imprint of Taylor & Francis Group, LLC

© 2023 selection and editorial matter, Madhu Jain, Dinesh K. Sharma,
Rakhee Kulshrestha, and H. S. Hota; individual chapters, the contributors

Reasonable efforts have been made to publish reliable data and information, but the author and publisher cannot assume responsibility for the validity of all materials or the consequences of their use. The authors and publishers have attempted to trace the copyright holders of all material reproduced in this publication and apologize to copyright holders if permission to publish in this form has not been obtained. If any copyright material has not been acknowledged please write and let us know so we may rectify in any future reprint.

Except as permitted under U.S. Copyright Law, no part of this book may be reprinted, reproduced, transmitted, or utilized in any form by any electronic, mechanical, or other means, now known or hereafter invented, including photocopying, microfilming, and recording, or in any information storage or retrieval system, without written permission from the publishers.

For permission to photocopy or use material electronically from this work, access www.copyright.com or contact the Copyright Clearance Center, Inc. (CCC), 222 Rosewood Drive, Danvers, MA 01923, 978-750-8400. For works that are not available on CCC please contact mpkbookspermissions@tandf.co.uk

Trademark notice: Product or corporate names may be trademarks or registered trademarks and are used only for identification and explanation without intent to infringe.

Library of Congress Cataloging-in-Publication Data

Names: Jain, Madhu, 1959- editor.

Title: Applications of mathematical modeling, machine learning, and intelligent computing for industrial development / edited by Madhu Jain, Dinesh K. Sharma, Rakhee Kulshrestha, H.S. Hota.

Description: First edition. | Boca Raton : CRC Press, [2023] | Series:

Smart technologies for engineers and scientists | Includes bibliographical references and index.

Identifiers: LCCN 2022057077 (print) | LCCN 2022057078 (ebook) | ISBN 9781032392646 (hbk) | ISBN 9781032479293 (pbk) | ISBN 9781003386599 (ebk)

Subjects: LCSH: Industry 4.0. | Automation. | Engineering mathematics. | Artificial intelligence--Industrial applications.

Classification: LCC T59.6 .A67 2023 (print) | LCC T59.6 (ebook) | DDC 670.285--dc23/eng/20230111

LC record available at <https://lcn.loc.gov/2022057077>

LC ebook record available at <https://lcn.loc.gov/2022057078>

ISBN: 978-1-032-39264-6 (hbk)
ISBN: 978-1-032-47929-3 (pbk)
ISBN: 978-1-003-38659-9 (ebk)

DOI: 10.1201/9781003386599

Typeset in Sabon
by SPi Technologies India Pvt Ltd (Straive)

ATTESTED

ॐ नमो भगवते वासुदेवाय
PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

Contents

<i>Preface</i>	ix
<i>Editors' biographies</i>	xv
<i>List of contributors</i>	xvii

SECTION I

Mathematical modeling **1**

- 1 An interactive weight-based portfolio system using goal programming 3
HARI SHARMA, KATE BROWN, AND VINEET KUMAR AWASTHI

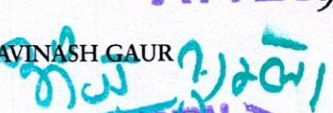
- 2 Generalized knowledge measure based on hesitant fuzzy sets with application to MCDM 29
DINESH K. SHARMA, SURENDER SINGH, AND SUMITA LALOTRA

- 3 Queuing system with customers' impatience, retention and feedback 49
RAKESH KUMAR, BHUPENDER KUMAR SOM, K. KALIDASS, AND M. I. G. SURANGA SAMPATH

- 4 Controllable multiprocessor queueing system 61
ANAMIKA JAIN, MADHU JAIN, AND DHEERAJ BHARDWAJ

- 5 Multi-server queueing system with feedback and retention 77
RAKESH KUMAR, SAPANA SHARMA, AND BHAVNEET SINGH SOODAN

- 6 Retrial queueing system subject to differentiated vacations with impatient customers 93
M. I. G. SURANGA SAMPATH, DINESH K. SHARMA, AND AVINASH GAUR

ATTESTED

PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

7	A preorder discounts and online payment facility on a sustainable inventory model with controllable carbon emission	111
	S. R. SINGH AND DIPTI SINGH	
8	Green inventory systems with two-warehouses for rubber waste items	145
	AJAY SINGH YADAV, PALAK MEHTA, AND NATESAN THILLAIGOVINDAN	
SECTION 2		
	Machine learning	157
9	Cyber-attack detection applying machine learning approach	159
	VIKASH KUMAR, DITIPRIYA SINHA, AND AYAN KUMAR DAS	
10	Feature extraction methods for intelligent audio signal classification	179
	AARON RASHEED RABABAAH	
11	Feature detection and extraction techniques with different similarity measures using bag of features scheme	203
	ROOHI ALI AND MANISH MAHESHWARI	
12	Stratification based initialization model on partitional clustering for big data mining	223
	KAMLESH KUMAR PANDEY AND DIWAKAR SHUKLA	
13	Regression ensemble techniques with technical indicators for prediction of financial time series data	245
	RICHA HANDA, H. S. HOTA, AND JULIUS A. ALADE	
14	Intelligent system for integrating customer's voice with CAD for seat comfort	259
	SAED TALIB AMER, LONDON ONYEBUEKE, AND AARON RASHEED RABABAAH	
15	An implementation of machine learning to detect real time web application vulnerabilities	287
	TARUN DHAR DIWAN, SIDDHARTHA CHOUBEY, AND H. S. HOTA	

ATTESTED
287
PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

Contributors

Shaikha Al Shehhi
Khalifa University of Science and
Technology
Abu Dhabi City, Abu Dhabi, UAE

Julius A. Alade
University of Maryland Eastern
Shore
Princess Anne, Maryland, USA

Roohi Ali
Makhanlal Chaturvedi University
of Journalism and
Communication
Bhopal, MP, India

Saed Talib Amer
Khalifa University of Science and
Technology
Abu Dhabi City, Abu Dhabi, UAE

Ankit
Deenbandhu Chhotu Ram
University of Science and
Technology
Murthal, Sonipat, Haryana, India

Vineet Kumar Awasthi
Dr. C.V. Raman University
Kota, Chhattisgarh, India

Dheeraj Bhardwaj
City Group Co
Safat, Kuwait

Kate Brown
University of Maryland Eastern
Shore
Princess Anne, Maryland, USA

Siddhartha Choubey
Shri Shankaracharya Technical
Campus
Bhilai, Chhattisgarh, India

Ayan Kumar Das
Birla Institute of Technology Mesra
Patna, Bihar, India

Rohtash Dhiman
Deenbandhu Chhotu Ram
University of Science and
Technology
Murthal, Sonipat, Haryana, India

Tarun Dhar Diwan
Govt. E. Raghavendra Rao P.G.
Science College
Bilaspur, Chhattisgarh, India

L. Gabaitiri
Botswana International University
of Science and Technology
Palapye, Botswana

Avinash Gaur
University of Technology and
Applied Sciences
Muscat, Sultanate of Oman

ATTESTED
PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

Neeti Gupta
Gautam Buddha University
Grater Noida, UP, India

Richa Handa
D. P. Vipra College
Bilaspur, Chhattisgarh, India

H. S. Hota
Atal Bihari Vajpayee
Vishwavidyalaya
Bilaspur, Chhattisgarh, India

Anamika Jain
Manipal University Jaipur
Jaipur, Rajasthan, India

Madhu Jain
Department of Mathematics, IIT
Roorkee
Roorkee, Uttarakhand, India

K. Kalidass
Karpagam Academy of Higher
Education
Coimbatore, Tamil Nadu, India

P. M. Kgosi
University of Botswana
Gaborone, Botswana

Nelson King
Khalifa University of Science and
Technology
Abu Dhabi City, Abu Dhabi, UAE

Rakesh Kumar
Namibia University of Science and
Technology
Windhoek, Namibia

Vikash Kumar
Siksha 'O' Anusandhan (Deemed to
be University)
Bhubaneswar, Odisha, India

Sumita Lalotra
Shri Mata Vaishno Devi University
Katra, Jammu and Kashmir, India

Manish Maheshwari
Makhanlal Chaturvedi University
of Journalism and
Communication
Bhopal, India

Palak Mehta
Indian Institute of Technology
Roorkee
Roorkee, India

Jaby Mohammed
Illinois State University
Normal, Illinois, USA

Landon Onyebueke
Tennessee State University
Nashville, Tennessee, USA

Kamlesh Kumar Pandey
Dr. Hari Singh Gour
Vishwavidyalaya
Sagar, MP, India

Satish Penmatsa
Framingham State University
Framingham, Massachusetts, USA

Aaron Rasheed Rababaah
American University of Kuwait
Salmiya, Kuwait

M. I. G. Suranga Sampath
Wayamba University of Sri Lanka
Lionel Jayathilaka Mawatha,
Kuliyapitiya, Sri Lanka

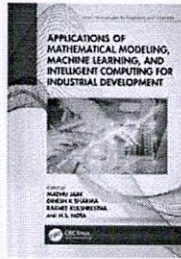
Dinesh K. Sharma
University of Maryland Eastern
Shore
Princess Anne, Maryland, USA

ATTESTED

(Handwritten signature)

PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

Chapter



Regression ensemble techniques with technical indicators for prediction of financial time series data

By Richa Handa (/search?contributorName=Richa Handa&contributorRole=author&redirectFromPDP=true&context=ubx) (https://orcid.org/0000-0001-8640-824X),
H. S. Hota (/search?contributorName=H. S. Hota&contributorRole=author&redirectFromPDP=true&context=ubx) (https://orcid.org/0000-0003-3518-4949),
Julius A. Alade (/search?contributorName=Julius A. Alade&contributorRole=author&redirectFromPDP=true&context=ubx) (https://orcid.org/0000-0002-7713-2496)

Book [Applications of Mathematical Modeling, Machine Learning, and Intelligent Computing for Industrial Development](https://www.taylorfrancis.com/books/mono/10.1201/9781003386599/applications-mathematical-modeling-machine-learning-intelligent-computing-industrial-development?refId=3e5dd46d-2f70-4c66-86cd-572566cb9b61&context=ubx)
(https://www.taylorfrancis.com/books/mono/10.1201/9781003386599/applications-mathematical-modeling-machine-learning-intelligent-computing-industrial-development?refId=3e5dd46d-2f70-4c66-86cd-572566cb9b61&context=ubx)

Edition	1st Edition
First Published	2023
Imprint	CRC Press
Pages	14
eBook ISBN	9781003386599

Share

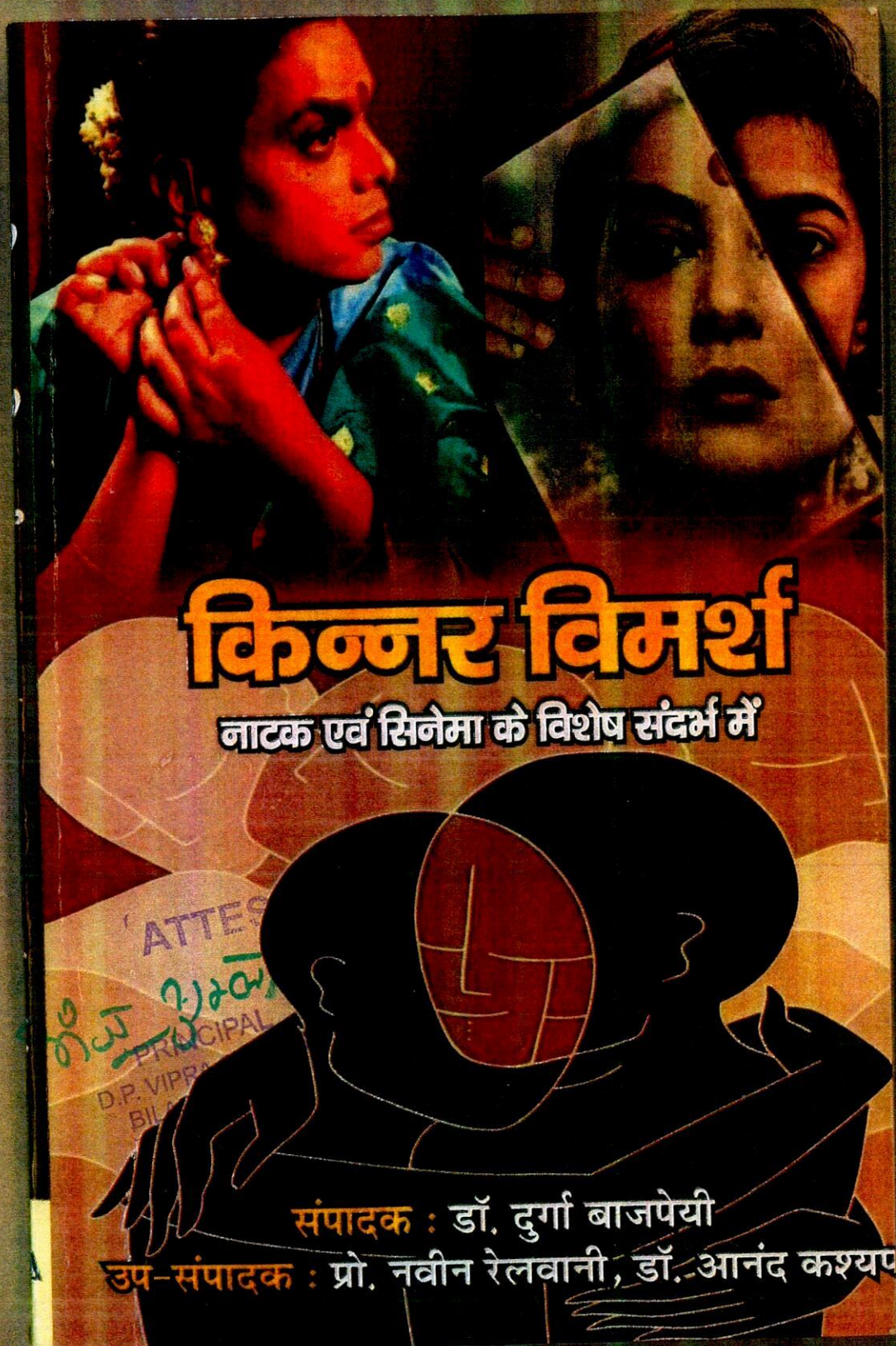
ABSTRACT

< Previous Chapter (chapters/edit/10.1201/9781003386599-14/stratification-based-initialization-model-partitional-clustering-big-data-mining-kamlesh-kumar-pandey-diwakar-shukla?context=ubx)
Next Chapter > (chapters/edit/10.1201/9781003386599-16/intelligent-system-integrating-customer-voice-cad-seat-comfort-saed-talib-amer-landon-onyebueke-aaron-rasheed-rababaah?context=ubx)

ATTESTED
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

(https://www.taylorfrancis.com)

Policies



किञ्जर विमर्श

नाटक एवं सिनेमा के विशेष संदर्भ में

ATTES
D.P. VIPRA
PRINCIPAL
BIL

संपादक : डॉ. दुर्गा बाजपेयी

उप-संपादक : प्रो. नवीन रेलवानी, डॉ. आनंद कश्यप

इस पुस्तक के सर्वाधिकार सुरक्षित हैं। प्रकाशक की लिखित अनुमति के बिना इस पुस्तक या इसके किसी भी अंश का किसी भी माध्यम से अथवा ज्ञान के संग्रहण एवं पुनर्प्रयोग की प्रणाली द्वारा, किसी भी रूप में, पुनरुत्पादित अथवा संचारित-प्रसारित नहीं किया जा सकता, इसे संक्षिप्त, परिवर्धित कर प्रकाशित करना कानूनी अपराध है।

ISBN : 978-93-91435-78-3

प्रथम संस्करण, 2024

- पुस्तक : किन्नर विमर्श : नाटक एवं सिनेमा के विशेष संदर्भ में
संपादक : डॉ. दुर्गा बाजपेयी
उप-संपादक : प्रो. नवीन रेलवानी, डॉ. आनंद कश्यप
प्रकाशक : संकल्प प्रकाशन
1569/14 नई बस्ती बक्तौरीपुरवा, बृहस्पति मन्दिर, नौबस्ता,
कानपुर (उ.प्र.)-208 021
दूरभाष : 094555-89663, 070077-49872
Email : sankalpprakashankanpur@gmail.com
website : www.sankalpprakashan.com
कॉपीराइट © : प्रकाशक
मूल्य : 825/-
शब्द-सज्जा : रुद्र ग्राफिक्स, हनुमन्त विहार, नौबस्ता, कानपुर-21
आवरण : गौरव शुक्ल, कानपुर
मुद्रक : सार्थक प्रेस, कानपुर

ATTESTED

DR. DURGABAJPEYI
PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

अनुक्रम

1. किन्नर विमर्श : नाटक एवं सिनेमा के संदर्भ में
भरत वेद 11
2. किन्नर समुदाय का उत्थान
महेन्द्र भीष्म 16
3. शिखण्डी नाटक
डॉ. विनय कुमार पाठक 19
4. किन्नर विमर्श : समाज के परित्यक्त वर्ग की व्यथा कथा
डॉ. पुनीत बिसारिया 23
5. संघर्षरत किन्नर समाज और ऐतिहासिक पृष्ठभूमि
डॉ. अंजू शुक्ला 30
6. भारत में किन्नरों की शैक्षिक स्थिति
डॉ. (श्रीमती) शशि गुप्ता 34
7. समाज में तिरस्कृत किन्नर जीवन : एक चिंतन
श्रीमती शैलजा गोयल 39
8. शिखण्डी नाटक सामाजिक बहिष्कार से सामाजिक विमर्श तक
डॉ. आनंद कश्यप 44
9. नाटक के तत्त्वों के आधार पर शिखण्डी नाटक की समीक्षा
डॉ. रेखा दुबे 47
10. हिन्दी साहित्य के क्षेत्र में किन्नर
डॉ. सुषमा शर्मा 53
11. शिखण्डी
संगीता सिंह बनाफर 55
12. भारत में किन्नरों की सामाजिक एवं राजनीतिक परिस्थितियाँ
डॉ. मंजुमाधुरी बाजपेयी 59
13. किन्नर विमर्श : नाटक और सिनेमा के संदर्भ में चिंतन मनन की वैतिक्य
अनुभूति के उद्गार
डॉ. अर्चना शर्मा 63
14. किन्नर विमर्श : नाटक और सिनेमा के विशेष संदर्भ में
जाविद अली 69

ATTESTED
PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

- | | | |
|-------|---|-----|
| 48. | ऐतिहासिक परिपेक्ष्य में किन्नरों की भूमिका
डॉ. पूजा शर्मा | 226 |
| 49. | भारतीय समाज में किन्नर : अस्तित्व, संघर्ष और अधिकार
डॉ. (श्रीमती) हरिणी रानी आगर | 234 |
| 50. | किन्नर विमर्श (दशा एवं दिशा)
डॉ. आनन्द यादव | 238 |
| 51. | किन्नर विमर्श : नाटक एवं सिनेमा के विशेष संदर्भ में
दिग्विजय पाठक | 240 |
| 52. | विमर्शों के भीड़ में किन्नर विमर्श
(किन्नर विमर्श के स्वरूप के विशेष सन्दर्भ में)
डॉ. दिनेश श्रीवास | 243 |
| 53. | किन्नर विमर्श सामाजिक, आर्थिक स्थिति
डॉ. स्वाती शर्मा | 249 |
| 54. ✓ | Ardhanarishvara; the Lord who is half woman
Kanchi Bajpai | 253 |

ATTESTED

प्रो. डी. पी. विप्रा
PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

इस पुस्तक के सर्वाधिकार सुरक्षित हैं। प्रकाशक की लिखित अनुमति के बिना इस पुस्तक या इसके किसी भी अंश का किसी भी माध्यम से अथवा ज्ञान के संग्रहण एवं पुनर्प्रयोग की प्रणाली द्वारा, किसी भी रूप में, पुनरुत्पादित अथवा संचारित-प्रसारित नहीं किया जा सकता, इसे संक्षिप्त, परिवर्धित कर प्रकाशित करना कानूनी अपराध है।

ISBN : 978-93-91435-78-3

प्रथम संस्करण, 2024

- पुस्तक : किन्नर विमर्श : नाटक एवं सिनेमा के विशेष संदर्भ में
संपादक : डॉ. दुर्गा बाजपेयी
उप-संपादक : प्रो. नवीन रेलवानी, डॉ. आनंद कश्यप
प्रकाशक : संकल्प प्रकाशन
1569/14 नई बस्ती बक्तौरीपुरवा, बृहस्पति मन्दिर, नौबस्ता,
कानपुर (उ.प्र.)-208 021
दूरभाष : 094555-89663, 070077-49872
Email : sankalpprakashankanpur@gmail.com
website : www.sankalpprakashan.com
कॉपीराइट © : प्रकाशक
मूल्य : 825/-
शब्द-सज्जा : रुद्र ग्राफिक्स, हनुमन्त विहार, नौबस्ता, कानपुर-21
आवरण : गौरव शुक्ल, कानपुर
मुद्रक : सार्थक प्रेस, कानपुर

ATTESTED

Principal
D.P. WARRA COLLEGE
BILASPUR (B.S.)

हिन्दी साहित्य के क्षेत्र में किन्नर

डॉ. सुषमा शर्मा

समकालीन हिन्दी कथा साहित्य प्रवृत्तियों की दृष्टि से दलित विमर्श, आदिवासी, अल्पसंख्यक विमर्श, नारीवादी के सैद्धांतिक संरचना तक सीमित रह गया है। विभिन्न विधाओं में रचित साहित्य के अध्ययन के लिए सहायक है।

दलित, अल्पसंख्यक समुदाय तथा नारीवादी दृष्टि से साहित्यिक विधाओं का समाज शास्त्रीय अध्ययन किया गया है। भारतीय समाज में मौजूद एक विशेष वर्ग, किन्नर समुदाय का जीवन भी हिन्दी कथा साहित्य का प्रमुख अंग हो गया है।

प्राचीनकाल से ही भारत में किन्नर समुदाय का अपना एक अलग जीवन है। इस समुदाय के जीवन की विषमताओं और सुसंस्कृत समाज का ध्यान सांस्कृतिक एवं साहित्यिक दृष्टि से बहुत दिनांक तक नहीं गया। किन्नर समुदाय समाज से हमेशा उपेक्षित रहा। साहित्य और समाज में अपनी पहचान बनाने में असमर्थ रहा है यह समुदाय। किन्नरों का उल्लेख भारतीय पौराणिक साहित्य में प्राचीन समय से रहा है। रामायण और महाभारत में 'किन्नर का उल्लेख मिलता है।

किन्नर एक वन्य जनजाति के रूप में रामायण महाकाव्य में उल्लिखित है। यह शक्तिशाली और वीरता के रूप में प्रसिद्ध था। महाभारत कथा में महारथी भीष्म द्वारा तिरस्कृत राजकुमारी अपने अपमान का प्रतिकार लेने कुरुक्षेत्र के महासंग्राम में 'शिखंडी' के रूप में भीष्म के मृत्यु का कारण बनती है। 'शिखण्डी' और 'वृहन्नला' दोनों ही किन्नर के रूप में पौराणिक ग्रन्थों में वर्णित हैं।

स्त्री और पुरुष के अलावा मानव समाज में एक 'अन्य लिंगी' मनुष्य कहा जाने वाला सदियों से चर्चा में रहा है।

जननांगों के अभाव, अविकसित मनुष्यों को हिजड़ा कहा जाता है। प्रकारान्तर में इनके लिए किन्नर शब्द प्रचलित कर दिया गया। किन्नरों के लिए अंग्रेजी में 'थर्ड जेण्डर' शब्द प्रचलित है यानि तृतीय लिंगी मनुष्य। हिन्दी कथा साहित्य किन्नरों की चुनौतियों के प्रति हमारा ध्यान आकर्षित करता है। किन्नरों के प्रति अलगाव की भावना में अब धीरे-धीरे परिवर्तन हो रहा है।

ATTESTED

सुषमा शर्मा

PRINCIPAL

D.P. VIPRA COLLEGE
BILASPUR (C.G.)

Ardhanarishvara; the Lord who is half woman

-Kanchi Bajpai

Abstract : Ardhanarishvara is a combined form of the Hindu deity Shiva with his consort Parvati. Ardhanarishvara is depicted as half male and half female, divided equally down the middle. The right half is usually of a male Shiva, showing his traditional attributes. This form indicates that man and woman are two sides of the same coin and both are incomplete without each other. To create the universe, Shiva separated his powers from himself. Shiva himself is masculine and his Shakti is feminine. Due to the unity of man (Shiva) and woman (Shakti), Shiva is both male and female, hence he is Ardhanarishvara.

Introduction: When Brahma Started the work of creation, he found out that his creations would be destroyed after his life and every time he would have to create afresh. Even after deep consideration he could not reach any decision. Then to solve his problem he sought refuge in Lord Shiva. He performed severe penance to please Shiva. Shiva was pleased with Brahma's vigorous penance. To solve Brahma's problem, Shiva appeared in the form of Ardhanarishvara, in one half he was Shiva and in the other half he was Shakti. In this form Shiva inspired Brahma to create reproductive beings. At the same time, he also preached the equal importance of man and woman. The Brihadaranyaka Upanishad states that Purusha divides itself into two parts, male and female, and both parts mate, giving rise to all life – a concurrent theme in the stories of Ardhanarishvara. The Shwetashvatara Upanishad sows the seeds of the mythological Shiva – as the creator of all Purusha (male principle) and Prakriti (female principle). It points to his androgynous nature, making him the male and describes the woman as both. The other stories involved the Sage Bhagiratha. The Sage Bhagiratha invoked the gods and begged them


ATTESTED
 PRINCIPAL
 D.P. VIPRA COLLEGE
 BILASPUR (C.G.)

C#.NET Code Wizard: A Tour to C#.NET Framework

A Complete Book



Dr. Richa Handa

C#.NET Code Wizard: A Tour to C#.NET Framework

Dr. Richa Handa

About Book

This book is for students who are interested to learn a programming language. It is designed in a way in which students can easily understand the concept of the .NET framework with C#. This book also includes various lab examples with complete coding and step-by-step explanation of examples. Any one who wishes to develop C# programs can easily understand the illustrations of features of C# and .NET. This book covers the syllabus of students in Computer Science belonging to different universities.

About Author:

Dr. Richa Handa is an Assistant Professor of Computer Science at D. P. Vipra College, Bilaspur (C.G.). She has completed her PhD degree in the field of computer science in which her specialization is Machine Learning Techniques. She has also obtained M.Phil degree in computer science, M.Tech in computer science and MCA degrees and have more than 16 years of experience in the area of Computer Science in the field of Machine Learning, Artificial Intelligence and Computer Languages. She has 16 International research papers published in renowned journals such as Springer and Elsevier and has attended more than 22 international conferences.



Dr. Richa Handa
D. P. Vipra College
Bilaspur (C.G.)
Ph.D.
M.Phil
M.Tech
MCA

C#.NET Code Wizard: A Tour to C#.NET Framework

A Complete Book

First Edition

Author

Dr. Richa Handa

ATTESTED
انستیت
PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

Title of Book: C#.NET Code Wizard: A Tour to C#.NET
Framework

First Edition: 2023

Copyright 2023 © Richa Handa. All rights reserved.

No part of this Publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including prototyping, recording or any information storage and retrieval system without permission in writing from the publisher. this book is protected under copyright by the publisher.

Disclaimer

The author and publisher of this book have tried their best to ensure that the programs, procedures and functions described in the book are correct. However, the author and the publishers make no warranty of any kind, express or implied, with regard to these programs or the documentation contained in the book. The author and publisher shall not be liable in any event of any damages, accidental or consequential, in connection with arising out of the furnishing , performance or use of these programs, procedures or functions.

ISBN: 978-93-6013-336-8

MRP: Rs. 899/-

Published by:

Self Publication

E-mail: handapublication@outlook.com

ATTESTED

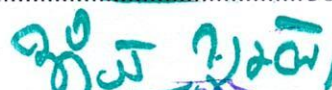


**PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)**

Table of Content

CHAPTER 1-	
.NET FRAMEWORK	1
1.1 Introduction to .NET Framework	1
1.1.1 Objectives of .NET Framework.....	2
1.1.2 Architecture of .NET Framework.....	3
1.1.3 Characteristics of .NET Framework.....	6
1.2 Introduction to Assembly	8
1.2.1 DLL Hell Problem.....	9
1.3 Introduction to Namespace	10
1.4 Common Language Runtime	14
1.4.1 Architecture of Common Language Runtime.....	14
CHAPTER 2- PROGRAMMING WITH C#	21
2.1 Introduction to C#	21
2.2 Structure of C#	22
2.3 C# Variables	23
2.4 C# Type Casting	25
2.4.1 Implicit Casting.....	26
2.4.2 Explicit Casting.....	27
2.5 Type Conversion Methods	28
2.6 Basic Input/Output in C#	30
2.7 C# Operators	34
2.7.1 Arithmetic Operators.....	34
2.7.2 Assignment Operators.....	35
2.7.3 Comparison Operators.....	37
2.7.4 Logical Operators.....	38

ATTESTED


PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)

CHAPTER 1

.NET FRAMEWORK

1.1 Introduction to .NET Framework

.Net Framework is a software Framework developed by Microsoft. It is a Framework for developing web-based, window based and console-based applications within the Microsoft environment. Framework is a new and Revolutionary platform created by Microsoft for developing applications. The view of .NET application in .NET framework is shown in figure 1.1 which shown that the .NET application work only when .NET framework installs over operating system.

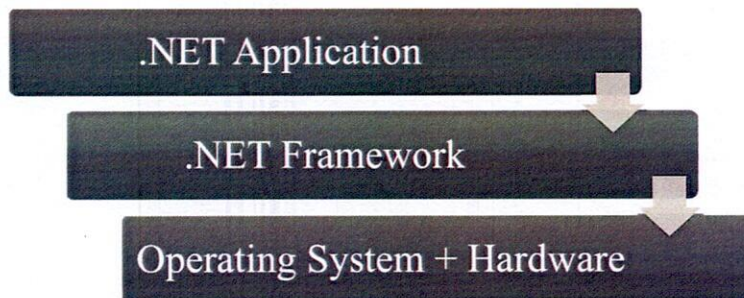


Figure 1.1: View of .NET Application in .NET Framework.

NET framework has following properties:

- It is a platform for application developers.
- It is a Framework that support multiple languages and cross-language integration.

ATTESTED
PRINCIPAL
D.P. VIPRA COLLEGE
BILASPUR (C.G.)