



**17th International Conference
of
International Academy of Physical Sciences
(CONIPAS-XVII)
On
EMERGING TRENDS IN
PHYSICAL SCIENCES & TECHNOLOGY
January 16-18, 2015**



**Organized by
University of Rajasthan
J.L.N. Marg, Jaipur-302004, India**

in association with

**St. Wilfred's Post Graduate College
Sector-10, Meera Marg,
Mansarovar, Jaipur-302020, India**

**Parishkar College of Global Excellence
Shipra Path, Near Metro Mas Hospital,
Mansarovar, Jaipur-302020, India**

About the Conference

Focal theme of the conference is “**Emerging Trends in Physical Sciences & Technology**”. The main activities of the conference will be Fellowship Award Lectures, Swami Bhajananand Saraswati Vedic Science Award Lecture, Special Lectures, Popular Lectures, Invited Lectures (each of 30 minutes duration), Presentations for Young Scientist Awards (10 minutes each) and Contributed Papers (20/10 minutes each). Conference will provide a platform to scientists and researchers working in different disciplines to discuss and harness the potential of the interactive ideas for meeting the challenges of the future.

Eligibility for Young Scientist Awards (YSA) - Scholars up to age of 35 years as on **January 31, 2015** evidenced by Birth/High School Certificate. Papers for YSA should not be authored by more than two scholars.

About the University

University of Rajasthan was established in 1947 as a multi-faculty University. The University offers UG, PG, M.Phil. and Ph.D. programmes in various disciplines at 37 Departments, 22 Centers and 6 Constituent Colleges besides 1350 Affiliated Colleges. The University also offers several Certificate and Diploma Courses. This University was accredited A+ by NAAC (2004-2009) and UGC has recognized the University amongst the top 15 Indian Universities with Potential for Excellence (UPE) in 2012. The University provides state-of-art research facilities support through UGC-SAP, DST-FIST PURSE programmes, research projects funded by UGC, CSIR, DST, DRDO, DEIT, DBT, BRNS, ICMR, ICSSR, ICHR, ICAR and few other agencies, and various international collaborations. Backed up with good infrastructure, the University is an active hub of academic activities in various disciplines. The University has one of the biggest libraries in India and world class sports facilities. See details on University website: <http://uniraj.ac.in>

About the Departments of Physical Sciences

Different Departments in Physical Sciences are the Departments of Physics, Chemistry, Mathematics, Statistics, Converging Technologies, Computer Science & Information Technology, Geology, Geography and Environmental Sciences. These Departments offer PG and Ph.D. courses in respective disciplines, conduct research in the realm of both pure and applied areas and have established state of the art research facilities. Research work is pursued in frontline areas in different subjects. These include Condensed Matter Physics, High Energy Physics, Nuclear Physics, Plasma Physics, Atomic Physics, Solar Energy and Microwaves and Communications in Physics, the areas of Asymmetric Synthesis, Atmospheric and Environment Chemistry, Bio-Inorganics and Bio-Organics, Electrochemistry and Electrodeics, Heterocyclics, Natural Products, Organometallics, Photochemistry, Synthetic Inorganic and Sol-Gel Chemistry and Synthetic Organic Chemistry in Chemistry, on Fluid Dynamics, Bio-Fluid Dynamics, MHD, Porous Media, Heat Transfer, Operations Research, Integral Transforms and Special Functions, Fractional Calculus and Geometric Function Theory, General Relativity & Cosmology in Mathematics, on Statistical Inference, Distribution Theory, Sampling Theory, Reliability Analysis, Computer Based Techniques and Environmental, Medical and Applied Statistics in Statistics, on Software Engineering, Computer Communications and Network, Computer Security and Cryptography, Artificial Intelligence and Neural Network, Web Technology and Image Processing in Computer Science & Information Technology, on the aspects connected with Geology of Hard Rock, Paleontology and Soft Rock and Environment in Geology and on Geomorphology and Geography related aspects of Environment, Agriculture, Transport, Medical, Industrial and Urban issues in Geography, and Converging Technologies areas include Nanotechnology, Biotechnology & Bio-informatics, Information & Communication Technology and Cognitive & Neuro Science.

About Jaipur

Jaipur, the fascinating capital of the marvelous state of Rajasthan, is one of the well planned cities of its time. It was established by the Maharaja Sawai Jai Singh in the year 1727. The graceful architecture of the city that runs across in pink colour has earned Jaipur the title of “The Pink City”. Jaipur is predominantly known for its musicians, artisans and craftsmen. Today, it is flocked by masses for its fine jewelry, varied textiles and sumptuous cuisine. There are innumerable sagas and stories of culture, traditions, practices and velour. This diverse land of rich cultural heritage is a royal treat for tourists from all over the world. Some of the most visited tourist destinations include: Hawa Mahal - the palace of winds, Amber Fort - capital of erstwhile Jaipur state, Jantar Mantar - the largest working observatory, City Palace - the residence of erstwhile Maharaja of Jaipur, Nahargarh Fort - the hunting residence of erstwhile Maharajas and Jaigarh Fort - the artillery storehouse of Rajput Rulers. Along with these fascinating places, Jaipur is flocked by people for indulgence in shopping. The famous handicrafts, silver and gold jewelry, precious and semiprecious stones, beads and jewelry, blue pottery products,

carpets and textiles are the most preferred ethnic items.

Jaipur is well connected to other parts of the country through air, rail and road. It is located approximately 120 km East of Ajmer (city of holy Pushkar and Dargah Sharif), 270 km South of Delhi and 250 km West of Agra (city of Taj Mahal) and is very well connected by air to all important metropolitan cities of India and abroad also. There are regular train services to all major cities of India. Direct flights are available to Abudabi, Dubai, Muscat and Singapore. In the month of January, the climate is cool and pleasant with minimum temperature touching some time 5 - 6°C necessitating woollens.

Call for Papers

Original contributions on a topic related to Physics, Chemistry, Mathematics, Statistics, Computer Science & Information Technology and Earth and Environmental Sciences (Geophysics, Geology and Geography), Converging Technologies as well as topics related to applications of Physical Sciences to Biosciences (Biophysics, Biocchemistry, Biomathematics, Bioinformatics etc.) are invited for oral/poster presentation. Submission of

(i) Full Papers for Young Scientist Award (YSA) : **December 25, 2014**

(ii) Abstract of papers other than for YSA : **December 31, 2014**

(iii) Full Paper other than for YSA : **January 10, 2015**

Abstract: Each abstract (MS word only) of maximum 500 words neatly typed in 1.5 spacing, 12 fonts on A4 size paper along with registration form and proof of paid registration fee is to be sent to coniapsxvijpr@gmail.com. **Hard copies of abstract, registration form and proof of paid registration fee must also be sent to the Convener, CONIAPS XVII or Organizing Secretary, CONIAPS XVII so as to reach latest by December 31, 2014.**

Full papers: Papers presented at the conference will be published on priority basis in the Journal of the Academy after peer review. Therefore, all full papers must be submitted in the format of Journal of IAPS provided at the website www.iaps.in

Registration Fee

Delegates/ Each accompanying person from India and SAARC countries : Rs.3000

Students/ Each accompanying person from India and SAARC countries : Rs. 1500

Delegates from National Laboratories, Industries, PSUs or other than SAARC countries: \$150 or equivalent

Note: (i) 10% rebate for life members of IAPS, (ii) Registration fee in cash or can also be paid through Demand Draft in favour of **CONVENER, CONIAPS XVII, UOR** payable at Jaipur and is to be sent to **Prof. P.R. Sharma**, Convener or **Prof. Deepak Bhatnagar**, Organizing Secretary.

(iii) Registration fee amount can directly be transferred to SB A/C No. 674701701008, ICICI Bank (IFSC Code: ICIC 0006747, MICR Code: 302229018), University Campus, University of Rajasthan, Jaipur-302004, India.

(iv) Delegates registered **on or before** December 31, 2014 will be provided accommodation (**16.01.2015 to 18.01.2015**), conference material (except accompanying person), breakfast, lunch and dinner. Delegates registered **after December 31, 2014** or **on spot** will be provided breakfast, lunch and dinner, conference material (subject to availability). However, they have to make their own stay arrangements.

On Spot Registration Fee

Delegates/Each accompanying person from India and SAARC countries : Rs. 4000

Students/ Each accompanying person from India and SAARC countries : Rs. 2500

Delegates from National Laboratories, Industries, PSUs or other than SAARC countries: \$250 or equivalent

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**17th International Conference
of
International Academy of Physical Sciences
(CONIPAS-XVII)**



January 16-18, 2015
Organized by :
University of Rajasthan, Jaipur-302004 , India

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Date :

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UNIVERSITY OF RAJASTHAN, JAIPUR-302 004, INDIA
17th International Conference of International Academy of Physical Sciences (CONIAPS XVII)

on
Emerging Trends in Physical Sciences & Technology
January 16-18, 2015

P R O G R A M M E
Date: January 16, 2015 (Friday)

<i>ON SPOT REGISTRATION</i> DEPARTMENT OF MATHEMATICS, Vigyan Bhawan, University of Rajasthan, Jaipur	0830-1015 Hrs.
<i>INAUGURAL FUNCTION</i> Venue: HUMANITIES HALL, University of Rajasthan, Jaipur	1030-1130 Hrs.

HIGH TEA –1130-1200 Hrs.

Session – I <u>SPECIAL LECTURE</u> Speaker: PROF. D. K. GUPTA Chairperson: PROF. A. K. MISHRA	1200-1230 Hrs.
Session – II <u>SPECIAL LECTURE</u> Speaker: PROF. K. P. MISHRA Chairperson: PROF. D. K. GUPTA	1230-1300 Hrs.
Session – III <u>SPECIAL LECTURE</u> Speaker: PROF. P. SINGH Chairperson: PROF. P. K. BAJPAI	1300-1330 Hrs.

LUNCH –1330-1430 Hrs.

Session – IV <u>SPECIAL LECTURE</u> Speaker: PROF. S. I. CHAN Chairperson: PROF. K. P. MISHRA	1430-1500 Hrs.
Session – V Presentation for YOUNG SCIENTIST AWARD PHY-05, 20; CHY-27; MATH-24, 40, 43, 55; MISC-07	1500-1730 Hrs.

TEA: 1730-1800 Hrs.

Venue: University Maharani College, Jaipur

<i>Cultural Programme</i>	1830-1930 Hrs.
<i>Dinner</i>	1930-2030 Hrs.

17th International Conference of International Academy of Physical Sciences (CONIAPS XVII)
on
Emerging Trends in Physical Sciences & Technology
January 16-18, 2015

P R O G R A M M E

Date: January 17, 2015 (Saturday)
Venue: St. Wilfred's PG College, Mansarovar, Jaipur

BREAKFAST: 0830-0930 Hrs.

Session –VI: 0930-1130 Hrs.

	Physics (Room: MBA Sem. Hall)	Chemistry (Room: 231)	Mathematics (Applied Group) (Room: Auditorium)	Statistics (Room: 230)
INVITED TALK				
SPEAKER:	Prof. J. P. Chaturvedi	Prof. Alka Agarwal	Prof. G. C. Sharma	Prof. D. K. Ghosh
CHAIRPERSON:	Prof. B. K. Sharma	Prof. Sanjeev Saxena	Prof. H. D. Doctor	Prof. C. B. Gupta
SPEAKER:	Prof. A. K. Mishra	Prof. S. K. Awasthi	Prof. V. K. Gupta	Prof. G. C. Tikkiwal
CHAIRPERSON:	Prof. J. P. Chaturvedi	Prof. Prem C. Pandey	Prof. Madhu Jain	Prof. P. C. Gupta
CHAIRPERSON:	Prof. Jagdish Rai	Prof. K. S. Gupta	Prof. V. K. Gupta	Prof. G. C. Tikkiwal
Scholars Oral Presentation	PHY--01, 02, 03, 04, 06, 07, 09, 08,10, 11, 12, 13, 14	CHY-01, 02, 03, 04, 08, 11, 12, 14, 15, 17, 18, 22	MATH-01, 02, 06, 11, 12, 13, 14, 15, 17, 19, 21, 22	STAT-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11

Session – VII: 1130-1330 Hrs.

	Physics (Room: MBA Sem. Hall)	Chemistry (Room: 231)	Mathematics (Applied Group) (Room: Auditorium)	Mathematics (Pure Group) (Room: 230)
INVITED TALK				
SPEAKER:	Prof. P. K. Baipai	Prof. K. S. Gupta	Prof. H. D. Doctor	Prof. Rajneesh Kumar
CHAIRPERSON:	Prof. H. Ohta	Prof. Alka Agarwal	Prof. Veena Sharma	Prof. Bhawna Deshpandey
SPEAKER:	Prof. Ashok K. Sharma	Prof. Prem C. Pandey	Prof. Madhu Jain	Prof. B. K. Mishra
CHAIRPERSON:	Prof. A. K. Nagawat	Prof. I. K. Sharma	Prof. A. K. Vashishtha	Prof. P. Chaturani
CHAIRPERSON:	Prof. B. K. Sharma	Prof. P. D. Sharma	Prof. J. L. Bansal	Prof. Rajneesh Kumar
Scholars Oral Presentation	PHY-15, 16, 17, 18, 19, 21, 23, 22, 24, 25, 26, 27, 28	CHY-23, 24, 25, 26, 28, 30, 31, 32, 33, 34, 35, 36	MATH-23, 25, 26, 27, 31, 33, 34, 35, 38, 39, 41, 42, 44, 45	MATH-03, 07, 08, 09, 10, 18, 20, 28, 29, 30, 36

LUNCH: 1330-1430 Hrs.

Session –VIII: 1430-1600 Hrs.

	Mathematics (Pure Group) (Room: MBA Sem. Hall)	Chemistry (Room: 231)	Mathematics (Applied Group) (Room: Auditorium)	Miscellaneous (Room: 230)
INVITED TALK				
SPEAKER:	Prof. Maithili Sharan	Prof. P. D. Sharma	Prof. A. K. Vashishtha	Prof. B. K. Tiwari
CHAIRPERSON:	Prof. S. K. Upadhyay	Prof. Ashok K. Sharma	Prof. R. K. Sharma	Prof. R. D. Gurjar
SPEAKER:	Prof. Veena Sharma	Prof. I. K. Sharma	Prof. B. K. Mishra	Prof. D. N. Talwar
CHAIRPERSON:	Prof. C. B. Gupta	Dr. Alka Sharma	Prof. Aseem Miglani	Prof. Jagdish Prasad
CHAIRPERSON:	Prof. K. R. Pardasani	Prof. I. K. Sharma	Prof. S. K. Upadhyaya	Prof. R. D. Doi
Scholars Oral Presentation	MATH- 37, 49, 51, 52, 56, 57, 59, 65, 69, 70	CHY- 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48, 50	MATH-46, 47, 48, 50, 53, 54, 58, 60, 61, 62, 63, 64, 66	MISC-01, 02, 03, 04, 05, 06, 08, 09, 10, 11, 12

Parallel Session – IX: 1430-1600 Hrs. (POSTER PRESENTATIONS)

Chairperson:	Prof. Alka Agarwal, Dr. D. K. Sharma and Dr. C. P. S. Chandel CHY-05, 06, 07, 09, 10, 13, 16, 19, 20, 21, 29, 47, 49, 51, 52, 53, 54, 55, 58, 61, 63, 69, 71, 72, 76, 77
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Session-X: 1600-1630 Hrs PROF. T. PATI MEMORIAL LECTURE (Auditorium)

SPEAKER:	Prof. G. Das
CHAIRPERSON:	Prof. P. N. Pandey

Session-XI: 1630-1830 Hrs.

	Physics (Room: MBA Sem. Hall)	Mathematics (Pure Group) (Room: 231)	Mathematics (Applied Group) (Room: Auditorium)	Miscellaneous (Room: 230)
INVITED TALK				
SPEAKER:	Prof. Ravindra Dhar	Prof. R. M. Shreshtha	Prof. K. R. Pardasani	Prof. Deepa Punitha
CHAIRPERSON:	Prof. Kanannbala Sharma	Prof. H. D. Doctor	Prof. S. K. Upadhyaya	Prof. A. V. S. Madnawat
SPEAKER:	Dr. Jagdish Rai	Prof. Bhawna Deshpandey	Prof. P. N. Pandey	Prof. Asha Hinger
CHAIRPERSON:	Prof. D. N. Talwar	Prof. Rajneesh Kumar	Prof. P. C. Gupta	Dr. S. S. Chauhan
CHAIRPERSON:	Prof. P. K. Khanna	Prof. Maithili Sharna	Prof. R. K. Sharma	Prof. B. K. Tiwari
Scholars Oral Presentation	PHY- 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42	MATH-73, 75, 81, 88, 96, 97, 103, 105, 109, 111, 112	MATH-67, 68, 71, 72, 74, 76, 77, 78, 79, 80, 82, 83, 84, 85,	MISC-13, 14, 15, 16, 17, 18, 19, 20

TEA: 1830-1900 Hrs.

Cultural Programme	1900-2000 Hrs.
Dinner	2000-2100 Hrs.

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on
Emerging Trends in Physical Sciences & Technology
January 16-18, 2015

P R O G R A M M E
Date: January 18, 2015 (Sunday)
Venue: Parishkar College of Global Excellence, Mansarovar, Jaipur

BREAKFAST: 0830-0930 Hrs.

Session-XII: 0930-1130 Hrs.

	Physics (Room:21)	Chemistry (Room: 22)	Mathematics (Applied Group) (Room: 41)	Mathematics (Pure Group) (Room: 42)
INVITED TALK				
SPEAKER:	Prof. H. Ohta	Prof. Ashok K Sharma	Prof. V. K. Katiyar	Prof. Aseem Miglani
CHAIRPERSON:	Prof. Ravindra Dhar	Prof. Anshu Dandia	Prof. S. K. Upadhyaya	Prof. A. K. Shukla
SPEAKER:	Prof. P. K. Khanna	Prof. Anshu Dandia		
CHAIRPERSON:	Prof. Prabha Dashora	Prof. S. I. Chan		
CHAIRPERSON:	Prof. D. N. Talwar	Prof. P. S. Verma	Prof. Kuldeep Singh	Prof. Raj Bali
Scholars Oral Presentation	PHY- 43, 44, 46, 45, 47, 48, 49, 50, 51, 52, 53, 54	CHY- 56, 57, 59, 60, 62, 64, 65, 66, 67, 68, 70, 73, 74, 75	MATH-86, 87, 89, 90, 91, 92, 93, 94, 95, 98, 99, 100	MATH-120, 123, 125, 126, 129, 130, 132, 133, 134, 135, 137

Session-XIII: 1130-1330 Hrs.

	Mathematics (Applied Group) (Room:21)	Statistics / Mathematics (Room: 22)	Mathematics(Pure Group) (Room: 41)	Miscellaneous (Room: 42)
INVITED TALK				
SPEAKER:	Prof. R. K. Sharma	Prof. P. C. Gupta	Prof. A. K. Shukla	Prof. H. S. Sharma
CHAIRPERSON:	Prof. V. K. Katiyar	Prof. Amita Sharma	Prof. R. M. Shreshtha	Prof. Deepa Punita
CHAIRPERSON:	Prof. Anil Vashishtha	Prof. D. K. Ghosh	Prof. C. K. Mishra	Prof. Anil Maheshwari
Scholars Oral Presentation	MATH-101, 102, 104, 106, 107, 108, 110, 113, 116, 117, 118, 119	STAT-12, 13, 14, 15, 16, 17, 18 MATH-04, 05, 16, 32	MATH-114, 115, 121, 122, 124, 127, 128, 131, 136, 138	MISC-21, 22, 23, 24, 25

Session-XIV: 1330-1400 Hrs PROF. R. S. MISHRA MEMORIAL LECTURE (Seminar Hall)

SPEAKER:	Prof. P. Chaturani
CHAIRPERSON:	Prof. R. M. Shreshtha

LUNCH: 1400-1500 Hrs.

Session-XV: 1500-1630 Hrs.

	Physics (Room:21)	Mathematics (Applied Group) (Room: 41)	Miscellaneous (Room: 42)
INVITED TALK SPEAKER: CHAIRPERSON:			
CHAIRPERSON: Scholars Oral Presentation	PHY-	MATH-	MISC-

VALEDICTORY SESSION: 1630-1730 Hrs.

(Seminar Hall)

Session –VI: 0930-1130 Hrs.

CHAIRPERSON: Prof. K. S. Gupta

CHY-01

Ligninolytic enzymes for new energy resources

MeeraYadav, SudhaYadava and K D S Yadav
Department of Chemistry, DDU Gorakhpur University, Gorakhpur-273009, (U.P)

CHY-02

Synthesis of novel water-soluble Mn (III) Porphyrins and their important application in coal depolymerization

Shashi L. Bharati and SudhaYadava
Department of Chemistry, DDU Gorakhpur UniversityGorakhpur-273009 U.P.(India)

CHY-03

Synthesis of hierarchical Zn on a nostructure and it photocatalytic performance study

Dnyaneshwar G. kumbhar, Swati D. Deshmukh, Sunit B. Rane and Sudhir S. Arbuj*
Materials for Renewable Energy Division, Centre for Materials for Electronics Technology,
Off Pashan Road, Pachawati, Pune-411008, Maharashtra, India

CHY-04

Synthesis of one dimensional CeO₂ nanostructures and its photocatalytic activity study

Swati D. Deshmukh, Dnyaneshwar G. Kumbhar, Jalindar D. Ambekar,
Sunit B. Rane and Sudhir S. Arbuj*
Materials for Renewable Energy Division, Centre for Materials for Electronics Technology,
Off Pashan Road, Pachawati, Pune-411008, Maharashtra, India

CHY-08

Molecular interactions in binary mixtures of 1-tert-butoxy-2-propanol with several alcohols at different temperatures: A thermophysical and spectroscopic approach

GyanPrakashDubey, PrabjotKaur
Department of Chemistry, Kurukshetra University, Kurukshetra-136119, India

CHY-11

Physical and Chemical Properties of Synthetic Bamboo from waste material

Nilesh P. Padar
University Institute of Chemical Technology, India

CHY-12

Ring Opening of Epoxides by Silica Sulfuric Acid for the Synthesis of 2-(Allyloxy)-2-Phenylethanol under Solvent Free Condition

Ram KumarTittal *

*Department of Chemistry, National Institute of Technology Kurukshetra,
(An Institution of National Importance) Haryana-136119

CHY-14

Applications of chemometric methods to elucidate physicochemical requirements for binding of CYP51 inhibitors to its target

Aarti Singh

Department of Pharmacy, Banasthali University, Rajasthan

CHY-15

Novel Synthesis of Antiretroviral drug – Zidovudine

Santosh Kumar Singh^a, N.P. Singh^b, Uttam Singh^b

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^bDeptt. of Chemistry, Bhagwant University, Sikar Road, Ajmer, Rajasthan – 305004

CHY-17

Evaluation of heavy metal contents bio accumulated in seed oil of *Withaniasomnifera* plant from arid zone of Rajasthan

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²Defence Laboratory, Ratanada palace, Jodhpur, Rajasthan, INDIA -342011

CHY-18

One Pot Multicomponent Synthesis of 4,7-dihydropyrazolo[3,4-*b*]pyridine-5-carbonitriles for Cytotoxic Evaluation

Suresh Kumar^{a*}, Ranjana Aggarwal^{a*}

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CHY-22

4-Functionalized 1,3-diarylpyrazoles bearing 6-aminosulfonyl benzothiazole moiety as carbonic anhydrase isoforms hCA I, II, IX and XII inhibitors

SitaRam, Pawan K. Sharma*

Department of Chemistry, Kurukshetra University, Kurukshetra, Haryana-136119

Session – VII: 1130-1330 Hrs.

CHAIRPERSON: Prof. P. D. Sharma

CHY-23

Hydrochemical investigation of ground water of Malpuratehsil (Tonk, Rajasthan)

Girja Shanker Tailor^{**} and C.P.Singh Chandel^{*}

^{*}Department of Chemistry, University of Rajasthan, Jaipur

^{**}Poddar International College, Jaipur

CHY-24

Synthesis of some new coordination compounds of zirconium(IV) with azomethines of amino acids

Swati Soni, H. S. Yadav, A. K. Varshney & Sarita Varshney
Department of Chemistry, University of Rajasthan, Jaipur

CHY-25

Electrochemical behavior of antiparkinson drug selegiline in non-aqueous media at glassy carbon electrode

Priyanka Sinha, Ramlal Saini, Anjuman Shekhawat and D. K. Sharma*
Department of Chemistry, Electrochemical Research Laboratory,
University of Rajasthan, Jaipur- 302004

CHY-26

Assay of antibacterial drug meropenem in pharmaceuticals by electrochemical methods

K. K. Jhankal, Anubha Sharma and D. K. Sharma*
Department of Chemistry, Electrochemical Research Laboratory,
University of Rajasthan, Jaipur (Rajasthan) India, 302004

CHY-28

Molecular docking investigation of interaction patterns of catechin flavonoids with DNA

Seema Verma and Neelima Gupta*
Department of Chemistry, University of Rajasthan, Jaipur-302004 INDIA

CHY-30

Electrochemical behavior of 1-methyl-2-oxo-4, 5-dichloroquinoline in aprotic media by voltammetric techniques

Ramswaroop, Rajkumar Sharma and D. K. Sharma*
Department of Chemistry, University of Rajasthan, Jaipur-302004

CHY-31

Synthesis, structural and anti-inflammatory studies of some new coordination compounds of Ni(II) with Schiff base derived from sulphadiazine

Hari Shankar Yadav, Swati Soni, A. K. Varshney and S. Varshney*
Department of Chemistry, University of Rajasthan, Jaipur-302004, India

CHY-32

In vitro cytotoxicity, xanthine oxidase inhibition and antimicrobial activities assay of thiobarbituric acid linked with various aromatic amines

Bhaveshkumar D. Dhorajiya¹, Bharatkumar Z. Dholakiya¹*Rafat M. Mohareb², Vani Senthil³,
David Sheng-Yang Wang³

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³Department of Forestry, National Chung Hsing University, 250 Kuo-Kung Road, Taichung-402, Taiwan (R.O.C)

CHY-33

Corrosion inhibitory effects of extracts of *Heliotropium Indicum* aluminum in sulphuric acid medium

Jyoti Sharma and Kirti Sharma*

Department of Chemistry, Govt. R.R. (PG) Autonomous College, Alwar (Raj.)

CHY-34

Impact of addition of 0.1M Ferric hydroxide on ground and surface water quality of Rajgarh area, Alwar (Rajasthan)

Meenakshi Sharma¹and Jyoti Sharma²

¹Department of applied sciences, LaxmiDevi Institute of Engg. & Technology, Alwar

²Department of Chemistry, Raj Rishi Govt. Autonomous College, Alwar

CHY-35

Synthesis and characterization of organotin (IV) complexes with Schiff base ligands derived from o-vaniline and various hydrazides

Ankit Ravesh

Department of Chemistry, Guru Jambheshwar University of Science & Technology
Hisar-125001, Haryana

CHY-36

A Correlation modelling of various Physico-chemical parameters to interpret the ground water quality of Khetri, district Jhunjhunu.

Jaswant Sharma¹, Surendra k Sharma², Usha Sharma³

Department of Chemistry Govt. College, Khetri (Jhunjhunu)¹

Department of Chemistry, S.S. Jain Subodh P.G. College jaipur²

MaharajVarishthUpadhyay Sanskrit School, Jaipur³

Session –VIII: 1430-1600 Hrs.

CHAIRPERSON: Prof. I. K. Sharma

CHY-37

Impact Assessment of Physico-chemical characteristics of ground water of phaghi block of Jaipur district, Rajasthan

Surendra k Sharma¹, Jaswant Sharma², Richa sharma³, Usha Sharma⁴ and C.P.S Chandel*
Department of Chemistry, S.S. Jain Subodh P.G. College Jaipur^{1,3}
Department of Chemistry Govt. College, Khetri (Jhunjhunu)²
Maharaj Varishth Upadhyay Sanskrit school, Jaipur⁴
Department of chemistry, university of Rajasthan, Jaipur*

CHY-38

Microwave assisted facile access to functionalized Spiropyrrolidine/thiapyrrolidine oxindol in *evia* 1,3-dipolar cycloaddition

Anshu Dandia,* Pragya Soni
Centre of Advanced Studies, Department of Chemistry,
University of Rajasthan, Jaipur-302004 India

CHY-39

A simple and eco-friendly synthesis of Imidazo[1,2-a]pyridines derivatives by using nanomaterial via 3-MCRs

Suman Swami and Rahul Shrivastava*
Department of Chemistry, Manipal University, Jaipur-302007

CHY-40

A simple systematic method of obtaining atomic spectroscopic terms for non equivalent electrons of $d^2s^1p^1$ configuration

Ankur and P.L.Meena*
Department of Chemistry, University of Rajasthan, Jaipur, India-302004

CHY-41

One-pot synthesis of substituted benzofurans in imidazolium based ionic liquid and screening of their anti-microbial activity

Sangeeta Bhargava¹ and Deepti Rathore¹
¹Department of Chemistry, University of Rajasthan, Jaipur, India

CHY-42

A highly efficient approach for the synthesis of quinoxalines using 1,2-diketones in ionic liquids

Sangeeta Bhargava¹ and Pooja Soni¹
¹Department of Chemistry, University of Rajasthan, Jaipur, 302004, India

CHY-43

Ionic liquid mediated reactions of β -lapachone with various diamines

Sangeeta Bhargava*, Neha Khera and Ranveer Singh
Department of Chemistry, University of Rajasthan, Jaipur-302004

CHY-44

Contamination of organochlorine pesticides (OCPS) in vegetables

Sangeeta Parihar
Department of Chemistry, Jai Narayan Vyas University, Jodhpur-342001, India

CHY-45

Silver nanoparticles synthesized by the *Trachyspermumammi* (Ajwain) seed extract

*Rajesh Kumar Meena & Neelu Chouhan
Department of Pure and Applied Chemistry, University of Kota, Kota-324005

CHY-46

Spectral and biological studies on some mixed ligand Ni (II) complexes

Anshu Khandelwal and Mithlesh Agrawal*
Department of Chemistry, University of Rajasthan, Jaipur -302004, India.

CHY-48

A New Approach to Compute Atomic Hardness Invoking Other Periodic Properties

¹Shalini Chaudhary, ²Tanmoy Chakraborty*
¹Department of Chemistry, Alankar P.G. Girls College, Jaipur, Rajasthan, India
²Department of Chemistry, Manipal University Jaipur, Rajasthan, India

CHY-50

Synthesis of some new substituted 10H-phenothiazines, and their sulfone derivatives followed by spectral characterization and antimicrobial assessment

AnkitaGarg^{*1}, Naveen Gautam², Dinesh Chand Gautam¹
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²Lal BahadurShastri Government P.G. College, Kotputli, Jaipur 303108

Session-XII: 0930-1130 Hrs.

CHAIRPERSON: Prof. P. S. Verma

CHY-56

Phytochemical and Pharmacological Investigation of *Saussurealappa*

PratibhaPayal, Amita Gupta, Sateesh Kumar Meena, M.C. Sharma*
Natural Products Laboratory, Centre of Advanced study, Department of Chemistry,
University of Rajasthan, Jaipur, India

CHY-57

Removal of hazardous metals by adsorption method using activated carbon

Bhanupriya Mordhiya^a and Kailash Daga^b

Department of Chemistry, University of Rajasthan, Jaipur (Rajasthan)
Department of Chemistry, Jai Narain Vyas University, Jodhpur (Rajasthan)

CHY-59

Phytochemical Investigation and Biological Activities of *Adhatodavasica*

Amita Gupta, Pratibha Payal, Sateesh Kumar Meena, M.C. Sharma^{*}
Natural Products Laboratory, Centre of Advanced study, Department of Chemistry,
University of Rajasthan, Jaipur, India

CHY-60

Synthesis of some mixed ligand complexes of Fe (III)''

Neha Jain and Mithlesh Agrawal^{*}
Department of Chemistry, University of Rajasthan, Jaipur-302004, India.

CHY-62

Inhibitive and adsorptive properties of *Noxious weeds* on metal acid corrosion

Arpita Sharma, Guddi Choudhary, Monika, Alka Sharma
Centre of Advanced Studies, Department of Chemistry,
University of Rajasthan, Jaipur (Rajasthan) INDIA

CHY-64

Thermodynamic and adsorptive propensity of *Euphorbia hirta* on copper in HCl

Guddi Choudhary, Arpita Sharma, Monika, Alka Sharma
Centre of Advanced Studies, Department of Chemistry,
University of Rajasthan, Jaipur (Rajasthan) INDIA

CHY-65

The seed oil of *Guazmaulmifolia (malvaceae)* as a minor source of cyclopropenoid fatty acids

Seema Parveen
Department of Chemistry, J.N.V. University, Jodhpur-342001, Rajasthan, India.

CHY-66

Imidazoliumfluorochromate as an oxidising agent for organic sulfides: a kinetic and mechanistic approach

Anurag Choudhary
Department of Chemistry, J.N.V. University, Jodhpur- 342005

CHY-67

Electrochemical studies of Cd (II)- citric acid complex in waste waters

Rajni Bais

Electroanalytical Laboratory, Department of Chemistry, J.N.V. University, Jodhpur 342 005

CHY-68

Study of oxidation and regeneration of aldehyde and ketones from oximes by using tetraethyl ammonium chlorochromate

Om Prakash

Department of Chemistry, J.N.V. University, Jodhpur- 342005

CHY-70

Structural and antimicrobial investigations of some new Tin (II) complexes with semicarbazones and thiosemicarbazones

Neha, Sarita Varshney and A. K. Varshney

Department of Chemistry, University of Rajasthan, Jaipur

CHY-73

Synthesis of some new 2-(2-carboxyanilino)-4-(3-chloro-4-fluoroanilino)-6-(substituted thioureido)-1,3,5-triazines

V. Kumar, V. Sareen and V. Khatri

Department of Chemistry, University of Rajasthan, Jaipur-302004, India

CHY-74

Synthesis of novel indolyl- β -lactam anti-inflammatory and antimicrobial agents

Meenu Mangal^{#1} and Vijendra Jangid²

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Mansarovar, Jaipur,-302020 Rajasthan (INDIA)

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Mansarovar, Jaipur,-302020 Rajasthan (INDIA)

CHY-75

Study on variance of gas pollution levels in urban segment (focal area Jaunpur municipal board)

R. K. Singh¹, N.P.Singh², Richa Tiwari³

¹Department of Chemistry, V.B.D.M. Gandhi I.C. Bahraich (U.P., India)

²Department of Chemistry, T.D. P.G. College, Jaunpur (U.P., India)

³Mycology & Plant Pathology Division, Department of Botany, University of Lucknow,
Lucknow- India

Session –VI: 0930-1130 Hrs.

Chair Person: Prof. Jagdish Rai

PHY-01

Temperature and pressure dependent electronic and thermodynamic properties of binary rare earth intermetallics

S. P. Singh* and R P Singh
Department of Physics, S.S.V P.G College, Hapur(UP), India

PHY-02

Conversion of chemical energy of Bio-waste into electrical energy by single- and double chamber membrane-less microbial fuel cells (MLMFCs)

R.Y. Tamakloe and K. Singh
Department of Physics, Kwame Nkrumah University of Science and Technology
Kumasi, Ghana (West Africa)

PHY-03

Structural, Spin Polarized Electronic and Magnetic Properties of $CeTi_3$

R. P. Singh and S P Singh
Department of Physics, S. S. V. Degree College, Hapur (C. C. S. University-Meerut), India

PHY-04

Non-woven nano/micro auxetic structures for tissue engineering

Sukhwinder K. Bhullar^{1,2}, M.B.G. Jun²

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²Department Mechanical Engineering, University of Victoria, Victoria, BC, Canada

PHY-06

Investigation of Solar Energetic Particle events during the solar cycle 23

Malik Abdul Waheed, Parvaiz A. Khan, Sharad C. Tripathi, Aslam A.M., PurushottamBhawre,
Azad A. Mansoori and A. K. Gwal
Space Science Laboratory, Department of Physics, Barkatullah University, Bhopal-462026

PHY-07

Investigation of half metallic character in CoCrAl and NiCrAl using relativistic approach

JagratiSahariya
Dept. of Physics, Manipal University, Jaipur-303007, Rajasthan

PHY-09

Study of magnetism in ferrites using magnetic compton scattering

H. S. Mund and B. L. Ahuja
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JagratiSahariya
Department of Physics, Manipal University, Jaipur-303007, India
M. Itou and Y. Sakurai
Japan Synchrotron Radiation Research Institute, SPring8, 1-1-1 Kouto, Sayo, Hyogo 679-5198,
Japan

PHY-08

Study of ionospheric scintillation over indianantattic station maitri, during low solar activity

PurushottamBhawre^{1*}, Prakash Khatarkar¹, Waheed Malik¹, A. K. Gwal¹ and P.K. Purohit²

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2. National Institute of Technical Teachers Training and research, Bhopal, India

PHY-10

Theory of raman scattering in semiconductor crystals

S.C.Gairola^{*}

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Campus Pauri, Pauri, Pin code-246001, Uttarakhand, India

PHY-11

Wall permeability studies in Li-Ni-Zn ferrites synthesized by Oxalate precursors

N.D.Chaudhari^{1*}, U. R. Ghodke², D.N.Bhosale³, S.S.Suryawanshi⁴

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⁴Department of Physics, Solapur University, Solapur, MS

PHY-12

Kinetics of crystallization of $\text{Ge}_{30-x}\text{Se}_{70}\text{Sn}_x$ ($8 \leq x \leq 20$) chalcogenide glasses

AnusaiyaKaswan, VandanaKumari, D. Patidar, N. S. Saxena, Kananbala Sharma

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Jaipur- 302004, India. Tele/fax: +91-141-2704056

PHY-13

Different type of conduction mechanisms in Ge-Se-SnChalcogenide Glass

VandanaKumari, AnusaiyaKaswan, D. Patidar, N. S. Saxena, Kananbala Sharma

Semi-conductor & Polymer Science Laboratory, Room No. 14-15,

Department of Physics, University of Rajasthan, Jaipur- 302004, India.

PHY-14

Ionospheric total electron content measurement over low, mid and high latitude region during low solar activity

Varsha Kachneria¹, Prakash Khatarkar¹, Purushottam Bhawre¹, Shweta Thakur¹, P. K. Purohit² and A. K. Gwal¹

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²National Institute of Technical Teachers' Training and Research, Bhopal (M.P.), India

Chair Person: Prof. B. K. Sharma

PHY-15

Study of thunderstorm over the central region of India for the period 2001-2010

Shweta Singh Thakur,^{a*} VarshaKachneria^a PurshottamBhawre^a, Prakashkhatarkar^a,
S.K Jain^b and A.K Gwal^a

^aSpace Science Laboratory, Department of Physics and Electronics, Barkatullah University, Bhopal
(M.P.), India

^bGovernment Banjeer Commerce and Science college Bhopal, India

PHY-16

**Study of variation in ionospheric parameters near the crest of equatorial anomaly region,
Bhopal during the Total Solar Eclipse of July 22, 2009**

Prakash Khatarkar¹, Purushottam Bhawre¹, Varsha Kachneria¹, Shweta Thakur¹, P. K. Purohit²
and A. K. Gwal¹

¹Space Science Laboratory, Department of Physics and Electronics, Barkatullah University,
Bhopal (M.P.), India

²National Institute of Technical Teachers' Training and Research, Bhopal (M.P.), India

PHY-17

**Dynamic Mechanical Analysis of II-VI/PVC Nanocomposites and its Nanoparticles
Concentration Dependence**

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Semi-conductor & Polymer Science Laboratory, Room No. 14-15, Department of Physics,
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PHY-18

NanocrystallineMn Substituted Fe₃O₄ Prepared By Sol Gel Method

B.L.Choudhary^{1*}, Prerna Kaler², Narender K. Agarwal³ S.N.Dolia⁴

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³Malviya National Institute of Technology, Jaipur-302 017

⁴Department of Physics, Univesity of Rajasthan, Jaipur-302 004

PHY-19

Optical properties of ZnSe Quantum dots synthesized by green method

Mahesh Verma*, Deepak Kumar Gupta, Dinesh Patidar, Kananbala Sharma, N.S. Saxena
Semiconductor and Polymer Science Laboratory,
Department of Physics, University of Rajasthan, Jaipur 302004, India

PHY-21

A New Design of Low Power High Speed Hybrid CMOS Full Adder

Ram RackshaTripathi, S.G.Prakash
Department of Electronics & Communication
University of Allahabad India-211002

PHY-23

Comparative analysis of FMNRiboswitch in different domains of life

Sunita* and D. Swati*#

*Department of Bioinformatics, MMV, BHU

#Department of Physics, MMV, BHU

PHY-22

Effect of radiative heat transfer on growth and decay of sonic waves with internal state variables

Nahid Fatima

Amity University, Haryana

PHY-24

Spectroscopic characterization of copper sulphide phases synthesized via co-precipitation method and stabilized by varying pH

SandhyaYadav and P.K. Bajpai*

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Guru GhasidasViahwavidyalaya, Koni, Bilaspur-495009, India

PHY-25

Deposition and characterization of Al doped ZnO thin films for optoelectronic applications

Swati Mishra, R. K. Pandey and P. K. Bajpai

Department of Pure and Applied Physics, Guru GhasidasVishwavidyalaya,
Koni, Bilaspur-495 009 (CG), India

PHY-26

Temperature dependent Raman spectroscopic analysis of $Ba_{1-x}Sr_xTiO_3$ Solid Solutions

RatnamalaGanjir, C.R.K.Mohan and P.K. Bajpai*

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PHY-27

Study of Chemical State of Iron in Sediments of Test well MNW-1 Located in Manewala Structure of JaisalmerPetroliferous Basin, Rajasthan, India

Sahi Ram, K.R. Patel and R.P. Tripathi

Department of Physics, J.N.V. University Jodhpur, India,

PHY-28

Design of Microstrip Path Antenna on Multiferroic Substrate for GSM Application in L-Band

Manish Gupta¹, Gourav Gupta², Inder Singh Gupta³ and N Kumar Swamy⁴

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²Department of Computer Sciences, TIT&S, Birla Colony, Bhiwani, 127021, India

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⁴School of Engineering and Research, ITM University, New Raipur, Chhattisgarh

Session-XI: 1630-1830 Hrs.

Chair Person: Prof. P. K. Khanna

PHY-29

Fabrication and magnetic studies of nickel doped lithium ferrites by the citrate precursor method

Sanatombi S¹, Ibetombi Soibam¹

¹ Department of BS &H (Physics), NIT Manipur

PHY-30

Analysis of 1-D photonic crystal composed of linearly graded material

Bipin K Singh, Pawan Kumar and Praveen C Pandey*

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Indian Institute of Technology (Banaras Hindu University),

Varanasi-221005 (UP), INDIA

PHY-31

Prediction of effective thermal conductivity of nanofluids considering effect of non-uniform sizes of nanoparticles

Deepti Chauhan* and Nilima Singhvi

Thermal Physics Laboratory, Department of Physics,

University of Rajasthan, Jaipur- 302055

PHY-32

Theoretical modeling and use of Artificial Neural Network to predict the Effective Elastic Modulus of two-phase composites with cylindrical inclusions

Anupama Upadhyay and Ramvir Singh*

Thermal Physics Laboratory, Department of Physics,

University of Rajasthan, Jaipur, 302055, India.

PHY-33

Study of Nanocrystalline Copper Substituted Ferrite Prepared by Sol gel Method

Prerana Kaler^{1*}, B.L.Choudhary², Priya Jadoun³, Narender K. Agarwal⁴, S.N.Dolia³

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³Department of Physics, University of Rajasthan, Jaipur- 302 004

⁴Malviya National Institute of Technology, Jaipur-302 017

PHY-34

Photonic crystals composed of graded materials

Praveen Chandra Pandey

Department of Physics, Indian Institute of Technology (Banaras Hindu University),

Varanasi-221005 (UP), INDIA

PHY-35

Structural and Thermal characterization of Polypyrrole doped with metal halides

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Semi-conductor and Polymer Science Laboratory, 5-6, VigyanBhawan,

University of Rajasthan, Jaipur-302004,

St. Wilfred's College for Girls, Sec 5, mansarover, Jaipur-302020

PHY-36

Influence of composition on thermomechanical, thermal conductivity and mechanical properties of CPI/CR blends

Mahesh Baboo*, Seema Gupta, Kananbala Sharma, N. S. Saxena
Semiconductor and Polymer Science Laboratory
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PHY-37

Band Gap Modeling of Calcium Perovskite for Optical Properties

K.C. Bhamu,^{1,*} R.S. Rajaura,¹ R.P.Singh,² A. Srivastava,³ M.Singh¹
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³AMRG, ABV-Indian Institute of Information Technology and Management, Gwalior

PHY-38

Emission Behavior of undulate Surface Regarding Passive Microwave Remote Sensing

V. K. Gupta¹, R. A. Jangid¹ and Niraj²
¹Microwave research lab, Department of Physics. Raj Rishi Autonomous Govt P.G. College Alwar- (Rajasthan)
²Wild life research lab, Department of Zoology. Raj Rishi Autonomous Govt P.G. College Alwar- (Rajasthan)

PHY-39

Hammerhead ribozymes in Archaeal Genomes: A Computational Hunt

Angela Gupta¹ and D.Swati^{1,2*}
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²Department of Physics, MahilaMahavidyalaya, Banaras Hindu University, Varanasi

PHY-40

Characterization of Organic Matter in Lignite from Giral Lignite Field of Rajasthan, India

K. R. Patel, Renu and Sahi Ram
Department of Physics, Jai NarainVyas University Jodhpur, India

PHY-41

Study of optical properties of ZnO/MgO multilayer thin films synthesized by spin coating method

Ravi Agarwal¹, Narendra Kumar Agrawal², Kamalesh Verma³, Ramvir Singh³
¹Centre for Converging Technologies, University of Rajasthan, Jaipur-302004
²Department of Physics, Malaviya National Institute of Technology, Jaipur-302017
³Department of Physics, University of Rajasthan, Jaipur-302004

PHY-42

Estimation of the effective thickness and its seasonal variation of the moist layer over the Indian subcontinent and its comparative study

¹K N Pathak and ²Niket Shashtri
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²Sarvajanik College of Engineering and Technology, Surat

Session-XII: 0930-1130 Hrs.

Chair Person: Prof. D. N. Talwar

PHY-43

Correlation Effects on Spin-Polarized Electron-Hole Quantum Bilayers

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PHY-44

Pervaporation performance of PVA/GO nanocomposite membranes for the separation of water-THF azeotropic mixtures

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PHY-46

Green Synthesis of Silver Nanoparticles by Using Neem Leaf Extract

RenuKumari Yadav^{1*}, Prerana Kaler², Kumar Sambhav Verma³, B.L.Choudhary³

¹Biyani girls colleges, Jaipur- 302 039

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³U.S.I.C, University of Rajasthan,Jaipur- 302 004

PHY-45

A Comparative Study of Inhibition of *Serratiamarcescens* by Doped CdS and ZnS Nanoparticles

Arpita Sundaria¹, Ashutosh Shrivastav¹, Bhavisha Vijay¹,Ritesh Soni¹,
Sumvit Goyal¹ and Kailash Agrawal^{1,2}

¹Centre for Converging Technologies, University of Rajasthan, Jaipur 302004, India

²Department of Botany, University of Rajasthan, Jaipur 302004, India

PHY-47

Dual T-Shaped CPW fed Patch Antenna for Tri-band Operation

Akhilesh Kumar Pandey, Rajeev Singh

PHY-48

Re-Engineered Model for Task Allocation in Distributed Real-Time System

UrmaniKaushal, Avanish Kumar

PHY-49

Propagation of Plane Waves in Magnetoelastostatic Diffusion Medium with Voids

TarunKansal

PHY-50

Peptide Nanotubes Features and potentials

SujasBhardwaj, AbhilashaIndoria, Puja Sharma, AshimaBagaria

PHY-51

Noninvasive Optical Sensor for Blood Glucose Detection

Naresh Kumar Chaudhary

PHY-52

Small-signal FET Amplifiers with Triple Darlington Topology

SachchidanandShukla

PHY-53

Formation of nano crystals of a-Si:H with change in annealing parameter & study of electrical, structural and optical properties

Aravind Kumar¹, Pawan Kumar²

¹Department of Physics Kalindi College, East Patel Nager, New Delhi-110008

²Department of Physics GurukulaKangriVishwavidyalaya, Haridwar-249404

CHAIRPERSON: Prof.V. K. Gupta

MATH-01

Effects of yoga on mathematical model of blood flow

AnandBansal*, P. R. Sharma** and P. Chaturani***

*Department of Mathematics, Govt. Engineering College, Ajmer – 305 002,

**Department of Mathematics, University of Rajasthan, Jaipur – 302 004,

***Retd. Professor, Department of Mathematics, IIT Powai, Mumbai – 400 076

MATH-02

Mathematical model of total driving force of pulsatile flow of blood through a circular tube

AnandBansal* and P. R. Sharma**

*Department of Mathematics, Govt. Engineering College, Ajmer – 305 002,

**Department of Mathematics, University of Rajasthan, Jaipur – 302 004,

MATH-06

ADMP: a maple programming language for symbolic computation to nonlinear quadratic riccati differential equations

Sumit Gupta

Department of Mathematics, JaganNath Gupta Institute of Engineering and Technology,
Sitapura, Jaipur-302022, India

MATH-11

Performance analysis of an active/standby embedded cluster system with software rejuvenation and hardware failure

M. Jain* and Preeti**

*Department of Mathematics, Indian Institute of Technology, Roorkee-247667 (India)

**Department of Mathematics, NIMS University, Jaipur-303121 (India)

MATH-12

A study of unsteady MHD vertical flow of an incompressible, viscous, electrically conducting fluid bounded by two non-conducting plates in presence of a uniform inclined magnetic field

Krishna GopalSingha

Karanga Girls' H.S.S.(Jorhat), Assam, India

MATH-13

Numerical solution of linear and nonlinear partial differential equations using pade and homotopy perturbation method

Giriraj Methi

Department of Mathematics, Poornima College of Engineering, Jaipur-302022, India

MATH-14

Reflection and refraction of wave in two welded contact infinite unbounded half spaces

M.S.Barak and Vinod Kaliraman

Department of Mathematics, Indira Gandhi University Meerpur, Rewari (HR)-122503

MATH-15

MHD flow and heat convection with joule heating in a channel filled with open-cell metal foam porous media of variable permeability

M.K.Sharma, Kuldip Singh and Ashok Kumar

Department of Mathematics, Guru Jambheshwar University of Science & Technology, Hisar

MATH-17

Heat and mass transfer by laminar mixed convection flow from a vertical surface with induced magnetic field and convective boundary

Abhay Kumar Jha*, KomalChoudhary** and Anil Sharma***

*Department of Mathematics, JECRC University, Sitapura, jaipur-302022 India

**Department of Mathematics, Laxmidevi Institute of technology, chikani, alwar-301001, India

***Department of Mathematics, University of Rajasthan, jaipur-302004, India

MATH-19

Power law &harschel -bulkley fluid model for blood flow through elastic artery

Surendra Kumar

University Institute of Engg& Technology, Maharshi Dayanand University, Rohtak(Haryana), India

MATH-21

A two-dimensional problem in laser irradiated micropolar mass diffusion medium under different theories

Rajneesh Kumar*, Arvind Kumar** and Devinder Singh***

*Kurukshetra University Kurukshetra, Haryana (India)

**Punjab Technical University, Kapurthala, Punjab (India)

***Guru Nanak Dev Engg. College Ludhiana, Punjab (India)

MATH-22

Rayleigh wave propagation in thermoelastic diffusion with dual-phase-lag models

Rajneesh Kumar* and Vandana Gupta**

*Department of Mathematics, Kurukshetra University Kurukshetra-136119, Haryana (India)

**Indira Gandhi National College, Ladwa(Dhanora), Haryana (India)

Session – VII: 1130-1330 Hrs.

CHAIRPERSON: Prof. J. L. Bansal

MATH-23

State space approach formulation for thermoelastic material with double porosity

Rajneesh Kumar*, Richa Vohra** and M.G.Gorla**

*Department of Mathematics, Kurukshetra University, Kurukshetra, Haryana, India

**Department of Mathematics & Statistics, H.P.University, Shimla, HP, India

MATH-25

Quasilinearization technique for two point nonlinear boundary value problem

K.L. Amlani* and H. D. Doctor**

*Applied Science and Humanities Department, Sardar Vallabhbhai Patel Institute of Technology, Vasad,

**Department of Mathematics, Veer Narmad South Gujarat University, Surat.

MATH-26

Propagation of shock waves through a channel of varying area of cross-section containing mixture of a gas and small solid particles

Awaneesh Jee Srivastava and S.N.Ojha

Department of Mathematics, SRMGPC, Lucknow(UP)

MATH-27

LRS bianchi type ii tilted bulk viscous fluid model in general relativity

Raj Bal* and Pramila Kumawat*

*Department of Mathematics, University of Rajasthan, Jaipur - 302004 (India)

**Department of Mathematics, S.K.I.T., Jaipur (India)

MATH-31

Liquid metal MHD duct flow with slip walls across inclined transverse field

Dipjyoti Sarma and P.N. Deka

Department of Mathematics, Dibrugarh University, Dibrugarh-786004, Assam

MATH-33

Incompressible viscous flow and heat transfer between two rotating porous discs

P. R. Sharma* and Kalpna Sharma**

*Department of Mathematics, University of Rajasthan, Jaipur-302004, India

**Department of Mathematics, Manipal University, Jaipur, India

MATH-34

Approximate analytical solution of reaction diffusion equation by padé-laplacedifferential transform method

Kiranta Kumari and Praveen Kumar Gupta
Department of Mathematics & Statistics, Banasthali University, Banasthali-304022,
Rajasthan

MATH-35

Variational principle, Uniqueness and the reciprocity theorems in piezothermoelastic with mass diffusion

Poonam Sharma
Department of Mathematics, Kurukshetra University, Kurukshetra

MATH-38

Influence of chemical reaction on mhd free convective flow past an infinite vertical oscillating plate with variable temperature

HemantPoonia* and R. C. Chaudhary
Department of Math & Stat, CCSHAU, Hisar-125004.
Department of Maths, Univ. of Rajasthan, Jaipur-302022.

MATH-39

Iterative spline solution to the nonlinear two point boundary value problem

Hetal Saurabh Shah

MATH- 41

Combined effect of thermal diffusion and magnetic field on a free convective flow through a porous medium bounded by two infinite vertical porous plate in slip flow regime

Priya Mathur*, A. Jha** and Anil sharma*
*Department of Mathematics, Rajasthan University, Jaipur- 302004
**JECRC University, Jaipur

MATH-42

On linear stability analysis of magnetorotatory triply diffusive convection with viscosity variations

JyotiPrakash*, Rajeev Kumar*, Virender Singh* and Vinod Kumar**
*Department of Mathematics and Statistics, Himachal Pradesh University, Shimla-171005
**Department of Physics, M.L.S.M. College, Sunder Nagar, Himachal Pradesh (India).

MATH-44

Hydromagnetic Couette flow of class-II and heat transfer through a porous medium in a rotating system with hall effects

GauriShanker Seth, Prashanta Kumar Mandal and Rohit Sharma
Department of Applied Mathematics, Indian School of Mines, Dhanbad-826004, India

MATH-45

Numerical treatments to dengue disease transmission model

Keyuri J. Shah and Harish D. Doctor
*Department of Applied Sciences and Humanity, Vimat, Anita, Kim, Gujarat
**Department of Mathematics, VNSGU, Surat, Gujarat

Session –VIII: 1430-1600 Hrs.

Mathematics (Pure Group)

CHAIRPERSON: Prof. K. R. Pardasani

MATH-37

New results on semi compact preserving(semi compact) maps and weak semi subcontinuity (weak inverse semi subcontinuity)

Sandeep Kaur
Research Scholar, Department of Mathematics, Punjabi University, Patiala-147002, Punjab

MATH-49

Group codes defined over dihedral groups

Manju Pruthi and Sudesh
Department of Mathematics, Indira Gandhi University, Meerpur, Rewari-123401

MATH-51

Nonholonomic frames for Finsler space with generalized (α, β) -metric $\alpha + \varepsilon\beta + k\frac{\beta^2}{\alpha}$

SruthyAsha Baby and GaureeShanker
Department of Mathematics and Statistics, Banasthali University, Banasthali, -304022, India

MATH -52

Weakly compatible mapping in intuitionistic fuzzy metric space

Vandana Gupata*, Ankita Tiwari** and Nazida Shaikh**
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**Department of Mathematics, Govt. Madhav Science P. G. College, Ujjain(M.P.) Vikram University, Ujjain 456010.

MATH-56

Some properties of orderable compact coxeter hyperbolic polyhedrons

Dhrubajit Choudhury,
Department of Mathematics, Dibrugarh University, Assam

MATH-57

A study of degree of approximation by conjugate fourier series

Yogita Parmar, V. K. Gupta, S. K. Tiwari
School of Studies in Mathematics, Vikram University, Ujjain

MATH-59

Wiener index of total graph of graphs $K_n.S_m$ and $S_n.K_m$

Pravin Garg* and Shanu Goyal**

*Department of Mathematics, University of Rajasthan, Jaipur-302004, Rajasthan, India

**Department of Mathematics & Statistics, Banasthali University, Banasthali-304022,
Rajasthan, India.

MATH-65

Certain inequalities for the k – gamma function

S. C. Sharma and Menu Devi
Department of Mathematics, University of Rajasthan, Jaipur- 302004, Rajasthan, India.

MATH-69

Non-archimedean menger pm-spaces and some integral type fixed point theorems with common property (e.a) and application of functional equations in dynamic programming

Arihant Jain
Department of Applied Mathematics, Shri Guru Sandipani Institute of Technology and Science, Ujjain (M.P.) 456550

MATH-70

Common fixed points of a pair of hardy rogers type mappings on partial cone metric space.

Thokchom Chhatrajit Singh and Yumnam Rohen Singh
National Institute of Technology Manipur, Takyelpat, Manipur, Pin-795004, India.

Session –VIII: 1430-1600 Hrs.

Mathematics (Applied Group)

CHAIRPERSON: Prof. S. K. Upadhyaya

MATH-46

Bickely's Method solution to the higher order linear two point boundary value problem

Pinky Shah*and H.D.Doctor**

*B.K.M. Science College, Valsad

**Mathematics Department, Veer Narmad South Gujarat University, Surat, India

MATH-47

Viscous dissipation and radiation effects on mhd flow and heat transfer over an unsteady stretching surface in a porous medium

Gopi Chand and R. N. Jat

Department of Mathematics, University of Rajasthan, Jaipur – 302004, India.

MATH-48

Axisymmetric stagnation-point flow over a shrinking sheet with partial slip

Dinesh Rajotia and R. N. Jat

Department of Mathematics, University of Rajasthan, Jaipur – 302004, India

MATH-50

Inhomogeneous generalization of bianchi type v_0 string cosmological model of perfect fluid distribution in general relativity

Arvind Sharma and AtulTyagi

Department of mathematics & Statistics, M. L. S. University, Udaipur

MATH-53

Rayleigh taylor problem in magnetohydrodynamics through porous medium

SarojChoudhary

Department of Applied Science, Jodhpur National University, Jodhpur, Rajasthan, India

MATH-54

An inventory model for single deteriorating item with variable demand dependent on marketing strategy and displayed stock level

Vinti Dhaka¹, Sarla Pareek¹

¹Department of Mathematics & Statistics,
BanasthaliVidyapith, Banasthali, India

MATH-58

Uniformly convergent difference schemes for singularly perturbed differential equations

Kanak Sharma

Research scholar, Department of mathematics, Kurukshetra University

MATH-60

Plane waves in generalized poro-piezo-thermoelastic solids

Anil K.Vashishth* and HemaSukhija**

*Department Of Mathematics, Kurukshetra University, Kurukshetra 136119, India

**AryaKanyaMahavidyalya , Shahabad(M), India

MATH-61

Ion-acoustic solitary waves in inhomogeneous plasma with nonthermal electrons

L. B. Gogoi* and P. N. Deka**

*Department of Mathematics, Duliajan College, Duliajan-786602, Assam, India

**Department of Mathematics, Dibrugarh University, Dibrugarh-786004, Assam, India

MATH-62

MHD free convection flow between two inclined permeable plates with heat source in the presence of chemical reaction and radiation

MamtaGoyal and KiranKumari

¹Department of Mathematics, University of Rajasthan, Jaipur-302004, India

MATH-63

Diffusion-reaction problem and its solution through method of weighted residual

Hiral Desai and H. D. Doctor

Department of Mathematics, V.N.S.G.U., Surat

MATH-64

MHD heat and mass transfer flow over a semi-infinite inclined plate at constant concentration gradient embedded in a porous medium with heat source

MamtaGoyal and AnnuBanshiwal

Department of mathematics, University of Rajasthan, Jaipur-302004, India

MATH-66

Unsteady mhd stagnation point flow and heat transfer over a stretching sheet with suction or injection

R. N. Jat and Navin Kumar

Department of Mathematics, University of Rajasthan, Jaipur-302004, India.

Session-XI: 1630-1830 Hrs.

Mathematics (Pure Group)

CHAIRPERSON: Prof. Maithili Sharna

MATH-73

A result of preece's identity using generalized Dixon's theorem

Mukesh Sharma
Marudhar Engg.College, Bikaner

MATH-75

Absolute Banach summability of orthogonal series

Satish Chandra and Manoj Saxena
Department of Mathematics, S.M. Post-Graduate College, Chandausi-244412 (India)

MATH-81

On some properties of generalized k-fibonacci-like numbers

Yashwant K. Panwar*, Bijendra Singh** and V. K. Gupta***
*Department of Mathematics, Mandsaur Institute of Technology, Mandsaur, India
**School of Studies in Mathematics, Vikram University Ujjain, India
***Department of Mathematics, Govt. Madhav Science College, Ujjain, India

MATH-88

Investigation on weakly symmetric and weakly Ricci symmetric manifolds

B. B. Chaturvedi
Department of Pure and Applied Mathematics, Guru Ghasidas Vishwavidyalaya Bilaspur
(C.G.), India

MATH-96

Semi-slant Riemannian submersions from indefinite almost contact 3-structure manifolds onto pseudo-Riemannian manifolds

Uma Shankar Verma and S. S. Shukla
Department of Mathematics,
University of Allahabad, Allahabad.

MATH-97

Analysis of thermoelastic problem of a thick annular disc with radiation type boundary conditions, using integral transform

A. A. Navlekar
Department of Mathematics, PratisthanMahavidyalaya, Paithan, Aurangabad (M.S.), India

MATH-103

On the taylorcesaro product summability of conjugate derived fourier sequence

Gopal Krishna Singh

Mathematics Department, O.P.Jindal Institute Of Technology, Raigarh 496001(C.G.)

MATH-105

Upper and lower bounds on symmetric chi-square divergence measure

Ram NareshSaraswatand Ajay Tak

Department of Mathematics & Statistics, School of Basic Sciences, Manipal University
Jaipur, 302026, India

MATH-109

Fuzzy set theory and its applications

DhananjayGopal

S.V. NIT, Surat

MATH-111

Hypersurface of a Finsler space given by ah -Kropina change of metric

M. K. Gupta

Department of Pure & Applied Mathematics, Guru GhasidasVishwavidyalaya, Bilaspur
(C.G.), India

MATH-112

Related fixed point theorem of set valued mappings in three ϵ -chainable menger spaces

Rajesh K. Saini

Department of Mathematical Sciences and Computer Applications, Bundelkhand University,
Ihansi, India

Session-XI: 1630-1830 Hrs.

Mathematics (Applied Group)

CHAIRPERSON: Prof. R. K. Sharma

MATH-67

Non-uniform heat generation effect on MHD power-law fluid flow over a non-linearly stretching/shrinking porous sheet

Manish Raj, AbhayJha and Anil Sharma

Department of Mathematics, University of Rajasthan, Jaipur-302004, India

MATH-68

MHD flow and heat transfer from a stretching circular cylinder embedded in saturated porous medium

Monika Miglani*, N.R.Garg** and Mukesh Kumar Sharma***

*Department of Mathematics, Haryana College of Technology & Management, Kaithal-136027

**Department of Mathematics, M. D. University, Rohtak-124 001

***Department of Mathematics, Guru Jambheshwer University of Science & Technology, Hisar-125001

MATH-71

Slip-effects on oscillatory motion of walters' liquid b' through porous medium over a stretching surface

Dileep Singh Chauhan and Amala Olkha

Department of Mathematics, University of Rajasthan, Jaipur, India

MATH-72

Decoupling of bulk waves in tetragonal porous piezoceramics

Anil K. Vashishth* and Vishakha Gupta**

*Department of Mathematics, Kurukshetra University, Kurukshetra, India- 136 119

**Department of Mathematics, Dyal Singh College, Karnal, India- 132 001

MATH-74

Analysis of software product quality models: a comparative study

H. S. Shukla and Deepak Kumar Verma

Department of Computer Science, D.D.U. Gorakhpur University, Gorakhpur, India

MATH-76

Viscous flow with newtonian heating over a vertical flat surface

Gurminder Singh* and P.R. Sharma**

*Birla Institute of Technology (Ranchi) Ext. Center Jaipur, 27 Malviya Industrial Area, Jaipur

**Department of Mathematics, University of Rajasthan, Jaipur

MATH-77

Mathematical modeling and performance analysis of machinerepairable system

D.C. Sharma

Central University of Rajasthan, Bandar Sindari, Kishangarh, Ajmer

MATH-78

Free convection along a vertical cylinder with slip boundary condition

P. R. Sharma*, Indra K. Dadheech** and Gurminder Singh**

*Department of Mathematics, University of Rajasthan, Jaipur

** Birla Institute of Technology (Ranchi) Ext. Center Jaipur, 27 Malviya Industrial Area, Jaipur

MATH-79

An exact solution algorithm of two jobs through n machines

P.R. Sharma*and Shailendra Shukla**

*Department of Mathematics, University of Rajasthan, Jaipur-302004, India

**Department of Mathematics, S.S.Jain Subodh P.G. College, Jaipur-302004, India

MATH-80

A new approach to optimize CPU scheduling policy

Vandana* and D. Pandey**

*Dept. of computer Application, BIMT College, Meerut(UP)

**Dept. of Mathematics, CCSU Meerut (UP)

MATH-82

Numerical solution of nonlinear fractional heat-like equations

Devendra Kumar and Ram Prakash Sharma

Department of Mathematics, JECRC University, Jaipur-303905, Rajasthan, India

MATH-83

Effects of radiation and mhd on flow and heat transfer of compressible fluid flow through a channel partially filled with porous medium

ShwetaBohra*, Shalini Jain** and Vikas Kumar**

*Department of Mathematics, Rajasthan College of Engineering for Women, Jaipur

**Department of Mathematics, Manipal University, Jaipur, India

MATH-84

Operational readiness of traffic signalsystem with human error under environmental conditions using neural network approach

Neelam Sharma*, Surbhi** and Ekata*

*Dept. of Mathematics, Krishna Institute of Engg. & Tech., Ghaziabad, India

MATH-85

Multilevel median filter using harmonic mean filter for gaussian noise

HariShanker Shukla¹,NarendraKumar¹,RakeshPrakash Tripathi²

¹Department of Computer Science,DeenDayalUpadhaya Gorakhpur University,
Gorakhpur(UP), India

²Department of Mathematics,Graphic Era University Dehradun(UK) India

Session-XII: 0930-1130 Hrs.

Mathematics (Pure Group)

CHAIRPERSON: Prof. Raj Bali

MATH-120

Wavelet collocation method applied to class of singular initial value problems of differential equations arises in engineering

Subrahmanyam Upadhyay and K. N. Rai

MATH-123

Fuzzified optimum cost of inventory model with deterioration and shortages under full backlogging

S S Mishra

MATH-125

Fuzzified Inventory Flow in Supply Chain with Deteriorating Items and Power From Stock Dependent Demand

Sandeep Rawat and S S Mishra

MATH-126

Effect of suspended particles on thermosolutal instability in rivlin-ericksen fluid in the presence of horizontal magnetic field

Sanjeev Kumar

MATH-129

Brinkman flow through a porous cylinder embedded in another unbounded porous medium

IftekharaHamad Ansari

Math-130

A mathematical model for assisting career decision

Raj Kishor Bisht

MATH-132

Computational studies on sirtuins from schistosomamonsoni: structures, conformations and interactions with inhibitors

Raghvendra Singh and P. N. Pandey

*Center of Bioinformatic, IIDS, Nehru Science Center, University of Allahabad

**Department of Mathematics, University of Allahabad

MATH-133

An approach to human thermal system using mathematical modeling

K. K. Dubey

Department of Applied Science, Invertis University, Bareilly, India

MATH-134

Glimpses of the development of fluid mechanics: from aristotle to Navier- Stokes

P. K. Singh

Department of Mathematics, University of Allahabad, Allahabad

MATH-135

Application of the iterativelaplace transform method to time-fractional schrödinger equations

S.C. Sharma and R.K. Bairwa

Department of Mathematics, University of Rajasthan, Jaipur-302004, Rajasthan, India

MATH-137

A study of surface waves in fibre reinforced thermoelastic media

P K Sharma

Department of Mathematics, National Institute of Technology, Hamirpur 177 005, India

Session-XII: 0930-1130 Hrs.

Mathematics (Applied Group)

CHAIRPERSON: Prof. Kuldeep Singh

MATH-86

Seasonal deteriorating items inventory model for ramp type demand pattern and time dependent deterioration with partial backlogging

L. S. Singhand R. Kumar

Dept.Maths.& Stats., R.M.L.AvadhUniversity, Faizabad-224001(U.P.)INDIA

MATH-87

An approach to:positive reflectance on cost by developing two parameter weibull demand by developing inventory model implicating shortages & time varying holding cost

Garima Sharma

MATH-89

Effects of chemical reaction and radiation on unsteady MHD free convection flow of a visco-elastic fluid past a vertical porous plate immersed in the porous medium in the presence of oscillatory suction and heat source.

P.R.Sharma¹, Pooja Sharma² and Ruchi Saboo²

¹Department of Mathematics, University of Rajasthan, Jaipur, India

²Department of Mathematics, University of Manipal, Jaipur, India

MATH-90

Quantum liar detection via hardy correlations

RamijRahaman

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MATH-91

A mathematical model for assisting career decision

R.K.Bisht

Department of Computer Science and Applications, Amrapali Group of Institutes, Haldwani, Uttarakhand

MATH-92

A mathematical model of two Newtonian layered renal blood flows in capillaries remote from the heart and proximate to the kidney with special reference to kidney infection (UTI)

NeelamBajpai*, V. Upadhyay*, A.K.Agrawal*, P.N.Pandey**

* Dept. of Physical Sciences, M.G.C. GramodayaVishwavidyala, Chitrakoot , Satna (M.P.)

** Dept. of Mathematics, University of Allahabad, Allahabad (U.P)

MATH-93

A mathematical model on two phase newtonian renal blood flows in capillaries, with special reference to diabetes

Harish Chandra*, V. Upadhyay*, A.K. Agrawal* andP.N.Pandey**

*Dept. of Physical Sciences, M.G.C. GramodayaVishwavidyala, Chitrakoot , Satna (M.P.)

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MATH-94

On unbalanced generalized fuzzy transportation problem using heptagonal fuzzy numbers

R. K. Saini*,AtulSangal** and Om Prakash***

*Department of Mathematical Sciences and Computer Applications, Bundelkhand University, Jhansi,

**Research Scholar, Banasthali University, Banasthali, Rajasthan, India

***Department of Mathematics, Banasthali University, Banasthali, Rajasthan, India

MATH-95

Steady thermal stresses in a thin rotating disc of infinitesimal deformation with edge loading

JatinderKaur*, Pankaj Thakur**, and S.B. Singh***

*Department of Applied Science, Rayat Institute of Engg. & Information Technology,
NawanShahar

**Department of Mathematics, IEC University Baddi, Solan, Himachal Pradesh 174103, India

***Department of Mathematics, Punjabi University Patiala, Punjab 147002, India

MATH-98

Solution of economic dispatch problem using MSPSO

Narinder Singh and S.B. Singh

Department of Mathematics, Punjabi University, Patiala-147002

MATH-99

LRS Bianchi type III barotropic perfect fluid cosmological model in C – field theory with variable Λ

Gajendra Pal Singh* and AtulTyagi**

*Dept. of Mathematics, Geetanjali Institute of Technical Studies, Dabok, Udaipur.

** Dept. of Mathematics & Statistics, MohanlalShukhadia University Udaipur.

MATH-100

Unsteady mhd flow and entropy generation along a vertical porous plate through porous medium with constant heat flux

Pooja Sharma, Vikas Kumar, Kalpna Sharma and Shalini Jain

Manipal University Jaipur, Rajasthan, India, 303007.

Session-XIII: 1130-1330 Hrs.

Mathematics (Applied Group)

CHAIRPERSON: Prof. Anil Vashishtha

MATH-101

Mhd flow of the viscous incompressible non newtonian micro polar fluid between two noncoaxial rotating disks in the presence of magnetic field using hpm technique

V.K. Sharma and Divya Saxena

Department of Mathematics, Jagannath University, Chaksu, Jaipur

MATH-102

A study on behaviour of queuing models

Tariq Ahmad Koka and V.H. Badshah

School of Studies in Mathematics, Vikram University Ujjain (M.P)

MATH-104

An EOQ model for deteriorating items with time dependent quadratic demand and partial backlogging

Anil Kumar Sharma* and MeenakshiYadav**

*Dept. of mathematics, R.R.College,Alwar,India

**Singhania University, Jhunjhunu, Rajasthan,India

MATH-106

Analytical solution of thin film flow problem arising in non-Newtonian fluid mechanics

Jagdev Singh*and Sushila**

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**Department of Physics, Yagyavalkya Institute of Technology, Jaipur-302022, Rajasthan, India

MATH-107

Transient analysis of Markovian (m, M) machining system with threshold policies and geometric renegeing

Chandra Shekhar*, Madhu Jain** andAther Aziz Raina***

*Department of Mathematics, Birla Institute of Technology and Science, Pilani Campus, Pilani,-333 031, India.

**Department of Mathematics, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand 247 667 India

***Department of Mathematical Sciences, BGSB University, Rajouri, J and K 185 234,India.

MATH-108

Mixed convection unsteady stagnation – point flow and mass transfer towards a vertical stretching sheet with heat source / sink and slip boundary conditions

P. R. Sharma, Manisha Sharma and R. S. Yadav

Department of Mathematics, University of Rajasthan, Jaipur-302004, India

MATH-110

An inventory model for deteriorating items with selling price dependent demand and variable deterioration under inflation with time dependent holding cost

SmitaYadav*, Anil Kumar Sharma** and Naresh Kumar Aggarwal***

*Department of Mathematics,Singhania University, PacheriBari ,Jhunjhanu (RJ) India

**Dept. of Mathematics, R.R. College, Alwar (Rajasthan)

***Dept. of Mathematics, Govt. Sr. Sec. School Bikaner (Rewari)

MATH-113

Radiative boundary layer flow in porous medium due to exponentially shrinking permeable sheet

PareshVyas* and NupurSrivastava**

*Department of Mathematics, University of Rajasthan, Jaipur-302004, India

**Department of Mathematics, Poornima University., Jaipur-303905, India

MATH-116

Study of mathematical modeling of malaria transmission and control by use of larvivorous fish

Ritesh Pandey

A. P. S. University, Rewa, Madhya Pradesh

MATH-117

A comparative study of complexity of algorithms for optimization problems

R.N. Jat* and D.S. Ruhela**

*Deptt. Of Mathematics, University of Rajasthan, Jaipur

**S.M.L (P.G.) College, Jhunjhunu

MATH-118

MHD mixed convection flow in vertical porous channel subject to boundary condition of third kind

Ashutosh Ranjan

MATH-119

Influence of Hall current on chemically reacting micropolar fluid flow from radiative rotating surface with variable suction and temperature slip past an impulsively started plate

Preeti Jain* and R. C. Chaudhary**

*Department of Mathematics, Jagannath University, Jaipur-303901 (INDIA)

**Department of Mathematics, University of Rajasthan, Jaipur-302004 (INDIA)

Session-XIII: 1130-1330 Hrs.

CHAIRPERSON: Prof. C. K. Mishra

MATH-114

Double integral involving the generalized polynomials and the \overline{H} -function

R.P.Sharma

Govt. Engineering College, Ajmer -305002, Rajasthan, India.

MATH-115

Traversibility and Counting cliques of anti-Gallai middle graphs

Pravin Garg

Department of Mathematics, University of Rajasthan, Jaipur-302004, Rajasthan, India

MATH-121

On transiso graphs of groups of order less than 32

Laxmi Kant Mishra
Department of Mathematics, University of Allahabad

MATH-122

On normalized tight frame wavelet sets

Swati Srivastava

MATH-124

On Killing Correspondence in Finsler spaces

Suresh Kumar Shukla, M. K. Gupta and P. N. Pandey

MATH-127

**Decomposability of projective curvature tensor in projectively recurrent finlsperspace
(WR-Fn)**

Chayan Kumar Mishra

MATH-128

Certain symmetries in finsler spaces

Sweta Kumari and P. N. Pandey

MATH-131

A note on trans-sasakian manifolds

Rajendra Prasad and Vibha Srivastava
Department of mathematics and Astronomy, University of Lucknow Lucknow-226007

MATH-136

**On properties of induced affine connection of hyperdistribution of real hypersurfaces of
almost hyperbolic hermitian manifold**

P. N. Pandey* and Sushil Shukla**

*Department of Mathematics, University of Allahabad, Allahabad

**Department of Applied Science (Mathematics), BBDIT, Gaziabad

MATH-138

Common fixed point in fuzzy quasi-metric space

Bhavana Deshpande*, Suresh Chouhan** and Amrisha Handa*

*Department of Mathematics, Govt. P. G. Arts & Science College, Ratlam (M. P.) India,

**Department of Mathematics, Govt. Girls College, Ratlam (M. P.) India,

Session –VI: 0930-1130 Hrs.

CHAIRPERSON: Prof. G. C. Tikkiwal

STAT-01

A new attenuation relation for peak horizontal acceleration of strong earthquake ground motion

Divya Upadhyaya¹ and Dr. Amita Sharma²

¹Department of Statistics, University of Rajasthan, Jaipur, Rajasthan, India.

²Professor, Department of Statistics, University of Rajasthan, Jaipur, Rajasthan, India.

STAT-02

Statistical techniques to find migration pattern in Jaipur

Dr. Jayant Singh¹ and Deepali Sharma²

¹Associate Professor, Department of Statistics, University of Rajasthan, Jaipur

²Research Scholar, Department of Statistics, University of Rajasthan, Jaipur

STAT-03

Some consequences of measurement errors on the estimation of finite population parameters in sample surveys

Sheela Misra¹ and Dharmendra Kumar Yadav²

Department of Statistics, University of Lucknow, Lucknow-226007

STAT-04

Estimation of population variance under measurement errors in survey sampling

SheelaMisra* and Dipika**

Department of Statistics, University of Lucknow, Lucknow-226007

STAT-05

On goodness of fit

Dr. Yashbir Singh

Department of Statistics, University of Rajasthan, Jaipur

STAT-06

Finite range trivariate distribution-II

Dr. S.K. Gupta & Dr. Tarun Sharma

Department of Statistics, University of Rajasthan, Jaipur

STAT-07

Brain tumor images using enhance K-means algorithm with parallel

version of saliency map approach

Aman Sharma, Dr. Anil Bhardwaj, Dr.SwarnalathaPurushotham*
Department of Statistics, University of Rajasthan, Jaipur.

*School of Computing Science & Engineering VIT University, Vellore.

STAT-08

Characteristics of migrants and push-pull theory

Dr. Jayant Singh &ShaliniSaxena
Department of Statistics, University of Rajasthan, Jaipur

STAT-09

Statistical analysis of impact of tourism on the economy of Rajasthan

Dr. Anil Kr. Bhardwaj&KhushbuRathore
Department of Statistics, University of Rajasthan, Jaipur

STAT-10

Statistical Evaluation of Migration with Particular Reference to Jaipur

Dr. Jayant Singh &DeepeshKunwar
Department of Statistics, University of Rajasthan, Jaipur

STAT-11

Sub-group analysis of the anemic patients based on SharirikPrakriti

Rakesh Rana¹, Vineeta Singh² and Richa Singhal³

¹Statistical Officer, Central Council for Research in Ayurvedic Sciences, Ministry of AYUSH,
Government of India, Delhi

²Professor, Department of Statistics, Institute of Social Sciences, Dr.B.R.Ambedkar University, Agra,

³Statistical Assistant, Central Council for Research in Ayurvedic Sciences, Ministry of AYUSH,
Government of India, Delhi.

Session-XIII: 1130-1330 Hrs.

CHAIRPERSON: Prof. D. K. Ghosh

STAT-12

Microarray data analysis of acute Lymphoblastic Leukemia treatment response using Genowiz

Manoj Kumar¹&Vineeta Singh²
Department of Statistics, Institute of Social Science, Dr. B. R. A. University, Agra.

STAT-13

Statistical analysis for evaluation of seismicity of North Indian Region

Divya Upadhyaya¹, Dr. Amita Sharma² and Dr. V.P. Gupta³

¹Assistant Professor in Mathematics, Krishna Institute of Engineering and Technology, Ghaziabad, Uttar Pradesh, India.

²Professor, Department of Statistics, University of Rajasthan, Jaipur, Rajasthan, India.

³Professor of Statistics, Krishna Institute of Engineering and Technology, Ghaziabad, Uttar Pradesh, India.

STAT-14

Efficient estimation of variance using correlation coefficient and quartiles of the auxiliary variable

Subhash Kumar Yadav

STAT-15

Applications of chemometric methods to elucidate physicochemical requirements for binding of CYP51 inhibitors to its target

Aarti Singh

Banasthali Vidyapeeth, Rajasthan, India

STAT-16

An approach to: Positive reflectance on cost by developing two parameter weibull demand by developing inventory model implicating shortages & time varying holding cost

Sarala Pareek¹ and Garima Sharma²

¹ Professor, Department of Mathematics & Statistics, Banasthali Vidyapith, Banasthali (Newai), India.

²(Research Scholar), Department of Mathematics & Statistics, Banasthali Vidyapith, Banasthali (Newai), India.

STAT-17

Time dependent quadratic demand and partial backlogging

Anil Kumar Sharma¹ & Meenakshi Yadav²

STAT-18

Sequential procedures and study of their robustness for the parameters of an inverse Gaussian distribution when coefficient of variation is known

Naresh Chandra Kabdwal

Dept. of Mathematics & Statistics, Banasthali University

Rajasthan-India (304022)

MATH-04

Reliability measures of a two-unit cold standby repairable system with priority to operation over preventive maintenance

SonaliBaweja and Ashish Kumar

Department of Mathematics, Manipal University Jaipur, Jaipur-303007, Raj.(India)

MATH-05

Conceptual modeling and simulation applications

P. N. Pandey* and SushilShukla**

*Department of Mathematics, University of Allahabad, Allahabad

**Department of Applied Science (Mathematics), BBDIT, Gaziabad

MATH-16

Vague set theoretic approach to reliability analysis of a complex system

Mukesh K. Sharma* and D. Pandey**

*Department of Mathematics, R.S.S. (PG), Pilkhuwa, Hapur-245304 (UP), India

**Department of Mathematics, Ch. Charan Singh University, Meerut (UP)

MATH-32

Single unreliable server priority queueing model with balking and two classes of customers

Madhu Jain* and Anamika Jain**

*Department of Mathematics, IIT Roorkee, Roorkee, Uttarakhand-247 667, India

**Department of Mathematics, Manipal University, Jaipur, Rajasthan - 303 007, India

Session – IX: 1430-1600 Hrs. (POSTER PRESENTATIONS)

Chairperson: Prof. Alka Agarwal, Dr. D. K. Sharma and Dr. C. P. S. Chandel

CHY-05

Effect of hydrophilic ionic liquid on the micellar properties of aqueous Tween-20

Amalendu Pal*^a, Nirmla Deenadayalu^b and Sheena Chaudhary^a

^aDepartment of Chemistry, Kurukshetra University, Kurukshetra-136 119, India

^bDepartment of Chemistry, Steve Biko Campus, Durban, South Africa

CHY-06

Acoustic, volumetric and transport studies of binary mixtures: alkoxyalkanols with alcohols

Gyan Prakash Dubey*, Prabhjot Kaur and Seema Rani

Department of Chemistry, Kurukshetra University, Kurukshetra-136119, India

CHY-07

Effect of ionic liquid 1-butyl-2,3-dimethylimidazolium bromide on themicellization behaviour of TTAB in aqueous media

Amalendu Pal*, Ankita Pillania

Department of Chemistry, Kurukshetra University, Kurukshetra-136119, India

CHY-09

Binding interaction between polyelectrolyte and long chain surface active ionic liquid carrying opposite charge

Amalendu Pal* and Sangeeta yadav

Department of Chemistry, Kurukshetra University, Kurukshetra-136119, India

CHY-10

Effect of alcohols on the aggregation behavior of ionic liquid in aqueous media

Amalendu Pal* and Alka Yadav

Department Of Chemistry, Kurukshetra University, Kurukshetra-136119, India

CHY-13

Organotitanium(IV) complexes with N^odonor fluoro-imines: Synthesis, structural characterization, antimicrobial and nematocidal activities

Ramhari Meena, Yogeshwari Satyawana, R.V. Singh and Nighat Fahmi

Department of Chemistry, University of Rajasthan, Jaipur-302004, India

CHY-16

To estimate physico-chemical parameters of soil in east southern part of Amanishah Nala of Jaipur (Rajasthan, India)

Ranjeet Jagariya and C. P. Singh Chandel*

Department of Chemistry, University of Rajasthan, Jaipur – 302014

CHY-19

Photo transformation of 3-alkoxychromones: regioselective photocyclisation of 2-(3-methoxyphenyl)-3-(prop-2-ynloxy)-4H-chromen-4-ones

Radhika Khanna, Aarti Dalal, Ramesh Kumar and Ramesh C. Kamboj*

Department of Chemistry, Kurukshetra University, Kurukshetra-136119, Haryana

CHY-20

A rapid extractive spectrophotometric method for the determination of Tin with 3-hydroxy-2-(thiophen-2-yl)-4H-chromen-4-one

Pankaj Bhatia, Harish Kumar Sharma*

Department of Chemistry, Kurukshetra University, Kurukshetra-136119, Haryana, India

CHY-21

Synthesis and photolysis of some Benzoyl oxiranes

Aarti Dalal, Radhika Khanna and Ramesh C. Kamboj*

Department of Chemistry, Kurukshetra University, Kurukshetra-136119, Haryana (INDIA)

CHY-29

Synthesis, characterization and biological investigations of some new Mn(II) complexes with mixed azines

Sunita Choudhary, Virendra Singh Shekhawat, S.Varshney, A. K. Varshney,

CHY-47

Ecofriendly syntheses of ethyl-2-hydroxycyclopentanecarboxylate

Ritu Saharan², P.S.Verma², I.K.Sharma², Jyoti Joshi¹,

²Department of Chemistry, University of Rajasthan, Jaipur, 302004

¹Department of Chemistry, MNIT Jaipur, 302017, India

CHY-49

Phytochemical investigation of *Ipomoea Hederacea* seeds

Lokesh Kumar Soni, Sonal Dobhal, Veerpal Singh, Suneeta Rao, Pradeep Parasher and M.P. Dobhal*

Natural Product Laboratory, Department of Chemistry, University of Rajasthan, Jaipur-302055

CHY-51

Synthesis, spectral characterization and *in vitro* antimicrobial screening of bioactive 4 H-1,4-benzothiazines and its derivatives.

Dinesh Kumar Jangid*, Naveen Gautam, Dinesh Chand Gautam.
Department of Chemistry, University of Rajasthan, Jaipur

CHY-52

Synthesis, characterization and *in vitro* antimicrobial assessment of 10H-phenothiazines, their sulfones and ribofuranosides.

Anjali Guleria*, Naveen Gautam, Dinesh Chand Gautam
Department of Chemistry, University of Rajasthan, Jaipur

CHY-53

Environmentally benign synthesis of N'-substituted naphthalene-1-sulfonylhydrazide under microwave irradiation and their biological evaluation

Sunita Ghiya, Himanshu Sharma, Mohini Mourya, Y. C. Joshi*
Department of Chemistry, University of Rajasthan, Jaipur-302004, India

CHY-54

Diversity oriented p-TSA catalyzed efficient and environmentally benign synthetic protocol for the synthesis of structurally diverse heteroannulated benzothiazolopyrimidines

Anju Kulhari, Sarita Khandelwal, Yogesh Kumar Tailor and Mahendra Kumar
Department of Chemistry, University of Rajasthan, Jaipur, 302004

CHY-55

Gold based nanocatalysis

Devendra Kumar Mahawar[†] and K.R.S. Chandrakumar[‡]
[†]Department of Chemistry, University of Rajasthan, Jaipur 302004
[‡]Theoretical Chemistry Section, BARC, Mumbai 400085

CHY-58

Kinetics and mechanism of the oxidation of benzyl alcohols by quinolinium dichromate

Umashankar Soni¹ and Ammilal Rao^{1&2}
¹Department of Chemistry, J.N.V University, Jodhpur, 342 005
²Department of Chemistry, University of Rajasthan, Jaipur, 302004

CHY-61

Obtaining term symbols for electrons of $d^3 s^1 p^1$ configuration using a simple electronic arrangement method

Reena Sangwan and P. L. Meena*

Department of Chemistry, University of Rajasthan, Jaipur, India-302004

CHY-63

Lawson: a potential green inhibitor

Monika, Guddi Choudhary, Arpita Sharma, Alka Sharma
Centre of Advanced Studies, Department of Chemistry,
University of Rajasthan, Jaipur (Rajasthan) INDIA

CHY-69

Aluminium based NPs for the synthesis of biologically important heterocycles

Begraj Kumawat, Vijay Parewa and Anshu Dandia*

Centre of Advanced Studies, Department of Chemistry, University of Rajasthan, Jaipur-302004

CHY-71

Natural product-mimetic scaffolds with privileged heterocyclic systems: design, synthesis and evaluation of antioxidant activity of quinazoquinobenzothiazinones

Sarita Khandelwal and Mahendra Kumar*

Department of Chemistry, University of Rajasthan, Jaipur-302004, India

CHY-72

Diversity oriented efficient and eco-compatible synthetic protocol for the synthesis of structurally diverse drug like complex heterocycles incorporating privileged heterocyclic systems

Yogesh Kumar Tailor and Mahendra Kumar*

*Department of Chemistry, University of Rajasthan, Jaipur, 302004, India

CHY-76

Amelioration of metal induced hepatotoxicity and anticancer activity of *Bauhinia variegata* leaf extract

Amit Kumar Sharma and Abhay K. Pandey*

Department of Biochemistry, University of Allahabad, Allahabad-211002, India

CHY-77

One Pot Multicomponent Synthesis of 4,7-dihydropyrazolo [3,4-b]pyridine-5-carbonitriles for Cytotoxic Evaluation

Suresh Kumar Procha

Session –VIII: 1430-1600 Hrs.

Chairperson: Prof. R. D. Doi

MISC--01

Changes in surface productivity and oxygen minimum zone (OMZ) in the northwestern Arabian Sea during last 540 Kyr

Ajai Kumar Rai, Siddharth Sankar Das

MISC--02

Prediction and error growth in the daily forecast of precipitation from the NCEP CFS v2 over the subdivisions of Indian continent

Shailendra Rai^{1,2,*}, Dhruva Kumar Pandey¹, A. K. Sahai³ and S. Abhilash³

¹K. Banerjee Centre of Atmospheric and Ocean Studies, University of Allahabad, Allahabad, INDIA.

²M. N. Saha Centre of Space Studies, University of Allahabad, Allahabad, INDIA.

³Indian Institute of Tropical Meteorology, Dr. Homi Bhabha Road, Pashan, Pune.

MISC--03

Challenges and opportunities of urbanization

Varun Binda

Department of Geography, St. Wilfred's P.G. College, Mansarovar, Jaipur, India

MISC-04

Simulation of Asian summer monsoon rainfall using global climate models

Umesh Kumar Singh and Suneet Dwivedi

K. Banerjee Centre of Atmospheric and Ocean Studies

Institute of Interdisciplinary Studies, University of Allahabad, Uttar Pradesh, India

MISC-05

Assessment of soil quality in Mathuradaspora municipal solid waste dumpsite, Jaipur

Ms. Prama Soloman and Dr. S.S. Chauhan

Indira Gandhi Centre for Human Ecology, Environmental and Population Studies

University of Rajasthan, Jaipur, Rajasthan, India

MISC-06

Climatic changes in the Jaisalmer district of Rajasthan (1980-2009)

Dr. Harshita Upadhyaya, Email: harshitaupadhyaya@gmail.com

Parishkar College of Global Excellence, Jaipur

MISC--08

Computational analysis of biodegradation pathways of environmental contaminant 3,5,6-trichloropyridin-2-ol using EAWAG-BBD-Pathway Prediction System

Seema Khan*, Kakoli Dutt, Veena Garg

Department of Bioscience and Biotechnology, Banasthali University, Rajasthan-304022

MICS-09

Quantifying the consensus on global warming in the advocacy science: a cross examination

Arshilram, Jaishree, Yasmeen Khan
Indira Gandhi Center for HEEPS,
University of Rajasthan, Jaipur

MICS-10

Wastewater management

ChetnaPradhan and Dr.Surendra Singh Chauhan
Indira Gandhi Centre for HEEPS, University of Rajasthan, Jaipur

MISC-11

Integrated nutrient management system: An alternative of conventional farming system

AlkaKataria and T. I. Khan
Indira Gandhi Centre for HEEPS, University of Rajasthan, Jaipur

MISC-12

Degrading environment and its impact on historical buildings with special reference to Uttar Pradesh

Kranti Deep Verma
Department of Medieval & Modern History, University of Allahabad, Allahabad (UP)

Session-XI: 1630-1830 Hrs.

Chair Person:Prof. B. K. Tiwari

MISC-13

Digital geomorphometric analysis of Usri river sub basin using Cartosat Dem

Pramod Kumar Pandey and S.S. Das,
University of Allahabad, Allahabad(UP)

MISC-14

Determinants of vulnerability among elderly population in slums of Delhi

Vinod Kumar

MISC-15

Estimation of total phenolic and flavonoidal content and DPPH free radical scavenging activity of methanolic extract of ailanthus excelsaroxb

ArunaKumari& Ram Avatar Sharma

Plant Physiology and Biochemistry Laboratory, Department of Botany
University of Rajasthan, Jaipur, Rajasthan, India.

MISC-16

Comparative study between distributed and collocated teams in agile software development

ShubhraDwivedi
Institute of Innovation in Technology and Management

MISC-17

Antifungal and antibacterial activities of 2,3,5-tri chloro pyridine on growth of aspergillusflavus, aspergillusnigar, aspergillusfumigatus and rizopus fungi

Dr.Vaishali Dixit
Associate Professor, Department of Applied Sciences and Humanities
Dronacharya College of Engineering, Gurgaon-122506, India

MISC-18

A new cipher text generation technique by digitizing the genetic DNA code using random number

IshaYadav
Rajasthan Technical University, Kota (Rajasthan)- INDIA

MISC-19

Remote Sensing and GIS Study of Keoladeo National Park, Bharatpur(Rajsthan)

Niraj¹, S. Palria², Ajay Kumar¹, Arti Sharma¹ and V K Gupta³
¹ Wildlife Research Lab, Dept. of zoology, Government Raj Rishi P.G. College, Alwar
²Department of Remote Sensing & Geo-informatics, M.D.S. University Ajmer
³Department of Physics, Government Raj Rishi P.G. College, Alwar

MISC-20

Sensory and nutritional quality of food preparations cooked in microwave oven

MuktaAgrawal and Savita Swami¹
Department of Home Science, University of Rajasthan, Jaipur 302004, INDIA

Session-XIII: 1130-1330 Hrs.

Chair Person: Prof. Anil Maheshwari

MISC-21

Amelioration of metal induced Hepatotoxicity and anticancer activity of *bauhinia variegata* leaf extract

Amit Kumar Sharma and Abhay K. Pandey*

Department of Biochemistry, University of Allahabad, Allahabad-211002, India

MISC-22

Provenance study of siliclastic sediments, south-eastern Arabian sea

Siddhartha Sankar Das and Vaseem Akaram

MISC-23

Quality factors for body waves in the Garhwal Himalayas, India

Priyamvada Singh

MISC-24

Comparative analysis of FMN riboswitch in different domains of life

Sunita Yadav and Swati D

MISC-25

Hammerhead ribozymes in Archaeal genomes: A Computational Hunt

Angela Gupta & Swati D