

Interdisciplinary Ph.D. Research Colloquium
IQAC & Department of German
University of Mumbai
21.7.18
PROGRAMME

| Venue: ICSSR Hall, J. P. Naik Bhavan, Kalina Campus 9.00 a.m. – 9.30 a.m. Inaugural Session Vibha Surana, Head, Department of German, University of Mumbai: Welcome Shefali Pandya: Coordinator, IQAC, University of Mumbai: Introductory Remarks | | |
|--|---|---------------------------|
| Session I: 9.30 a.m. – 10.00 a.m.: Moderation: Sanjay Ranade, Varsha Kelkar | | |
| Subject | Topic | Ph.D. Scholar |
| Philosophy | Concept of Ananda (Bliss) in <i>Brahmanand (Panchadashi)</i> | Sandhya Joshi |
| Physics | A Peek into Hyperfine Field Calculation. | N. N. Menon |
| Sanskrit | The Concept of Dream: An Ayurvedic View | P. P. Akolkar |
| 10.00 a.m. – 10.50 a.m. Moderation: Sanjay Ranade, Varsha Kelkar & Meher Bhoot | | |
| Sanskrit | युभातः संस्कृतं प्रति - संस्कृत भाषेचा ऐतिहासिक भाषाशास्त्रीय विचार. | Ashwini C. Ashtekar |
| German | German and Marathi Grammar in Comparison | Kruttika Bhosale |
| Computer Science | Digital Resource Generation for Konkani Language | Annie Rajan |
| Arabic | Challenges of Literary Translations: Arabic Language | Dr. M.T. Khan |
| English | Reflection of Culture in the English Translations of the Plays of Mahesh Elkunchwar and Satish Alekar | Mallikarjun Sidaraya Loni |
| 10.50 a.m. – 11.05 a.m. Tea | | |
| Session II: 11.05 a.m. – 11.35 a.m. Moderation: Kanchana Mahadevan & Anil Karnik | | |
| Biotechnology | <i>CHLORELLA EMERSONII</i> KJ725233 – A Potential (Antiageing) Cosmeceutical Candidate | Sneha Sunil Sawant |
| Philosophy | Therapy and Philosophy: Reciprocal Relationship? | Tejashree Trimakhe |
| Biotechnology | Iron Oxide Nanoparticle: A Theranostic Tool (A New Precision Medicine Approach) | Priyanka M. Kambli |
| 11.35 a.m. – 12.15 p.m. Moderation: Kanchana Mahadevan & Anil Karnik | | |
| German | Cultural Relevance of Memory in Günter Grass' <i>The Tin Drum</i> and Salman Rushdie's <i>Midnight's Children</i> | Nanda Nandedkar |
| Physics | The Exciting World of Particle Physics. | Bipin Sonawane |
| Biophysics | Albumin-Nanoparticle Conjugates : Biophysical Approach for the Development of Targeted Drug Delivery | Manik Narayan Waghmare |
| German | The German Epic <i>Nibelungenlied</i> and the <i>Mahabharata</i> : Values in Comparison | Nirupama Uday Joshi |

| | | |
|---|--|-------------------------|
| 12.15 p.m. – 12.50 p.m. Digital Research Tool: Zotero Dipti Tambe & Shashank Khobragade | | |
| 12.50 p.m. – 2.00 p.m.: Lunch | | |
| Session III: 2.00 p.m. – 2.30 p.m. Moderation: Romar Correa & Renu Modi | | |
| Philosophy | Lyotard's Critique of Marxism | Viplov S. Dhone |
| Physics | Laser Interaction Studies with Magnetic Fluids | Chintamani Pai |
| Philosophy | Dr. B. R. Ambedkar's Buddhism and Vipassana Meditation: A Critical and Exploratory Analysis | Jyoti P. Waghmare |
| 2.30 p.m. – 3.20 p.m. | | |
| Financial & Management Studies | Impact of Cluster Development Programme on Micro and Small Enterprises: Textile Cluster in Maharashtra | Jigar Bharat Mehta |
| Kannada | Yakshagana Theatre in Mumbai | Y V M Rao |
| Urdu | Nayyar Masud : Short Story Writing | Ansari S. Alam |
| Central Eurasian Studies | Estimating Impact of Energy in Russian Economy: A Statistical Analysis | Kashyap K B Pathak |
| Communications & Journalism | Culture, Communications and Crisis Interpretation | Noumaan Qureshi |
| 3.20 p.m.– 3.35 p.m.: Tea | | |
| Session IV 3.35 p.m. – 4.15 p.m. Moderation: Smita Shukla & Anuradha Mishra | | |
| Physics | Physical Conditions in Damped Lyman-alpha Absorbers | Katherine Rawlins |
| German | Fictional History in Selected Contemporary German Novels (Hyperreality / Pastiche) | Shrikant Pathak |
| History | निःशुल्क वा अनिवार्य बाल शिक्षा का अधिकार अधिनियम - २००९: अधिकार बनाम ज़रूरत. | Yadav Vinod Chandrabali |
| Economics and Public Policy | Assessment of BMC Schools on the Basis of Adherence to Mid-Day Meal Programme Guidelines | Geeta Menezes |
| 4.15 p.m. – 5.05 p.m. Moderation: Smita Shukla & Anuradha Mishra | | |
| Physics | Search for EXTRA DIMENSIONS | Namrata Manglani |
| Physics | Multiwaveband Study of TeV Blazar | Sonal R. Patel |
| Financial & Management Studies | Sustainable Organic Value Chains and Inclusive Marketing for Rural Poverty Alleviation in Vidarbha Region of Maharashtra | Kripal Singh Niranjana |
| Biophysics | Functionalization of Albumin Bound Silver Nanoparticle – A Biophysical Study | Jaiswal Vinod D |
| Computer Science | AI Approaches to Generate Meaningful Food Recipes | Indrani Sen |
| 5.05 p.m. – 5.15 p.m. CONCLUDING SESSION Vote of Thanks: Juhi Thakkar | | |

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Abstracts

Session I:

Moderation: Sanjay Ranade & Varsha Kelkar

Time Slot: 9.30 a.m. – 10.00 a.m.

Concept of Ananda (Bliss) in *Brahmanand (Panchadashi)*

Sandhya Joshi

Department of Philosophy

माझ्या प्रबंधाचा विषय आहे, "पंचदशीचा चिकित्सक अभ्यास विशेषतः ब्रह्मानंदासंबंधात". पंचदशी हा विद्यारण्य मुनी व भारतीतीर्थ मुनी ह्या दोन संन्यासांनी मिळून ई. स. १३६० च्या नंतर लिहिलेला ग्रंथ आहे. या ग्रंथांमध्ये विवेक दीप आणि ब्रह्मानंद ह्या प्रत्येक विषयावर पाच अध्याय म्हणजे एकूण पंधरा अध्याय लिहिले आहेत. म्हणून ह्याचे नाव पंचदशी आहे. वेदांतावरील हा विद्वत्मान्य प्रकरण - ग्रंथ आहे.

मानवी जीवनात अनेक प्रकारची दुःखे दिसतात. ब्रह्मानंद या विभागात विविधप्रकाराचे आनंद वर्णिले आहेत आणि त्या आनंद संकल्पनेचे विश्लेषण प्रस्तुत प्रभानधत करण्याचा प्रयत्न आहे. ह्यासाठी मी चिकित्सक सौश्लेषक व अन्वयार्थ मीमांसा ह्या तत्वज्ञानातील सौशोधनाच्या पद्धती वापरणार आहे. यामध्ये पौरवात्य व पाश्चिमात्य आनंद मीमांसाचेच तौलनिक विचार करावयाचा आहे. रसेल, री. एच. ग्रीन, ऍरिस्टोटल लोकमान्य टिळक, आगरकर, लक्ष्मणशास्त्री जोशी, गीता आणि उपनिषदातील आनंद संकल्पना ह्यांचा मी तौलनिक अभ्यासासाठी विचार केला आहे.

A Peek into Hyperfine Field Calculation.

N. Nandakumar Menon

Department of Physics.

A current caused by electrons moving in a wire produces a magnetic field. Electrons orbiting an atom also in a sense constitute a current, and produce surprisingly high magnetic fields. The aim here is to calculate this field starting from basics. In the miniscule world of atoms as, Newton's equations fail, the Kohn Sham equations of Density Functional Theory are solved instead. As a large number of electrons are present, solutions have to be obtained numerically using computers. Relativistic effects are also included (as the electrons have very high speeds) by solving the Dirac-Kohn-Sham equations to calculate the hyperfine fields.

Concept of Dream: An Ayurvedic View

Prasad Pramod Akolkar

Department of Sanskrit

Ayurveda is an ancient medical science of India. It has been in practice for thousands of year. It not only deals with the diseased conditions but also explains many concepts relating to the wellbeing of the body, senses and the mind. Sleep is one of such very important concepts of human life. It is our experience that during the sleep, we visualise. These visions are called as dreams. Ayurveda discusses about this concept of dream in its own way and explains the reasons behind it. It also informs about various types of dreams and their indications with respect to the health of a person. My paper would shed some light on the concept of dream, explained in Ayurvedic text of Vāgbhata's *Aṣṭāṅgahṛdaya*.

Moderation: Sanjay Ranade, Varsha Kelkar & Meher Bhoot

Time Slot: 10.00 a.m. – 10.50 a.m.

चर्चासत्राचा विषय : युभातः संस्कृतं प्रति'- संस्कृत भाषेचा ऐतिहासिक भाषाशास्त्रीय विचार.

Ashwini Chandrashekhar Ashtekar.

Department of Sanskrit

आधुनिक संस्कृत महाकवी म्हणून सुपरिचित तसेच आधुनिक वैयाकरणांमध्ये लब्धप्रतिष्ठ, व्याकरण मर्मविद् डॉ. ग.बा.पळसुले यांनी संस्कृत व्याकरणक्षेत्रात मूलभूत संशोधन केले आहे. 'प्रथमे विद्वांसः वैयाकरणाः' ह्या श्रेणीतील डॉ. ग.बा. पळसुले महोदयांच्या समग्र रचनांचा संशोधनपूर्वक अध्ययन करण्याचा प्रयत्न या प्रबंधात करत आहे. संस्कृत भाषेची उत्पत्ती, ऐतिहासिकता आणि विकास यांचा मूळ युरोभारतीय भाषाकुळाशी असलेला संबंध 'युभातः संस्कृतं प्रति' या शास्त्रीय ग्रंथात डॉ. पळसुले यांनी स्पष्ट केला आहे. वैदिक आर्यांच्या मूलस्थानाविषयी तसेच त्या अनुषंगाने वैदिक संस्कृतचे ग्रीक, लॅटिन या अन्य युरोभारतीय भाषांशी दिसून येणारे साम्य याविषयीच्या प्रश्नांची भाषाशास्त्राच्या दृष्टीने समाधानकारक उत्तरे डॉ. पळसुल्यांनी मांडलेल्या उपपत्तीचा विचार मान्य केला असता देता येऊ शकतात. प्रस्तुत चर्चासत्रात या शास्त्रीय ग्रंथाचे 'संस्कृत भाषेचा ऐतिहासिक भाषाशास्त्रीय विचार' या अंगाने अध्ययन करण्यात येत आहे.

German and Marathi Grammar in Comparison

Kruttika Bhosale

Department of German

In a predominantly multilingual country like India where communication in the English language has taken a forehand, learning of Indian languages as second/foreign languages needs to be revolutionized. Language teaching requires intense interaction with the methodologies, tools and techniques of teaching, deployed in the teaching of various languages, including foreign languages. The proposed thesis titled "Deutsch und Marathi

Wortarten im Vergleich’’ (English: German and Marathi Parts of Speech in Comparison) aims at a contrastive, systematic analysis of parts of speech in German and Marathi grammar which would provide in depth understanding of the language structures of both the languages and a scientific base for Marathi language teaching.

Digital Resource Generation for Konkani Language

Annie Rajan

Department of Computer Science

This tool aims at enriching digital linguistic resources that are required for automatic processing of Konkani, the regional language of Goa. Morphological Analysis, Part of Speech (POS) tagging, Chunking, Sentimental analysis, Named Entry Recognition and ultimately Machine Translation are the activities that follow the basis of such digitized resources. The present resources that are available for Konkani in specific and for most of the Indian languages in general are not sufficient enough to create a machine translation tool box. So is the need. A resource generating tool that captures the word in the surface form, POS, animacy, person, pronoun type, proper noun type, gender, voice, sentiment, wx format, number, tense, count, word in Hindi and English has been developed by employing PHP, MySQL and Codeignites; All FOSS. The tool is available at www.annierajan.com We invite people to test it and generate inputs for its enhancement; Also, we appreciate people use it to input the words and their information that contributes to the cause of digital India.

Challenges of Literary Translations: Arabic Language

Dr. Mohd. Tabish Khan

Department of Arabic

To translate a work from one language into another is by no means an easy job. It is, in fact, an art, which cannot be mastered by anyone and with equal proficiency. The minimal requirement to make good of such a task is to have command of both the languages; target and source languages which include the literary traditions, complete knowledge of idioms and phraseologies, of the synonyms and antonyms and, more particularly, historical process of change in the meanings and shades of a word or a particular expression in a language. In short the translator should have the “feel” of both the languages. Keeping this in mind I would like to discuss the history of the Arabic-English translation, kinds of translation, its problems and solutions.

Keywords: Translation, Literature, Language, Arabic, Problem, Prospect.

Reflection of Culture in the English Translations of the Plays of Mahesh Elkunchwar and Satish Alekar.

Mallikarjun Sidaraya Loni

Department of English, D.G. Vaze College

In this study, the researcher wishes to present the theoretical background to the ways in which a culture is translated and throw light on the main problems faced by the translators, how they are tackled and which techniques are used by various translators. The cultural implications, interlingual and intercultural aspects and the cultural loss and gain that occurred during the process of translation were studied, and it can be concluded that a play rooted in an alien culture and tradition can be efficiently translated into another language, without losing the essence of the original play. Self-translation is the best form of translation as the author himself can portray the emotions encompassed in the original text into the translated text without losing the originality it possesses.

Session II:

Moderation: Kanchana Mahadevan & Anil Karnik

Time Slot: 11.05 a.m. – 11.35 a.m.

CHLORELLA EMERSONII KJ725233 – A Potential (Antiageing) Cosmeceutical Candidate

Sneha Sunil Sawant

Department of Biotechnology

Chlorella emersonii KJ725233 (CEK) a novel antioxidant reservoir with an antioxidant potential twenty times higher than that reported for other *Chlorella* species, has been isolated from the western regions of Maharashtra. CEK also exhibits a potent anti-elastase, anti-hyaluronidase and anti-collagenase activity that could possibly prevent skin wrinkling and retain moisture. Additionally, it demonstrates a high preservative potential in terms of anti-bacterial as well as anti-fungal activity. The presence of an array of antioxidants such as Vitamin E, indicates that this strain could serve as a potent antioxidant-antiageing powerpack with the potential to maintain the elasticity, structural integrity of the skin. Keywords : *Chlorella emersonii* KJ725233, antioxidant, anti-ageing, anti-microbial, phycocosmetics

Therapy and philosophy: reciprocal relationship?

Tejashree Trimakhe

Department of Philosophy

Philosophy as an activity of thought is closely related to psychology. Since the Greek period, philosophers such as Plato and Aristotle have reflected on the process of acquiring a healthy

and balanced approach to thought. During the modern era, Descartes, Locke, Berkeley, Hume and Kant endeavoured to comprehend human psychology as the foundation of reflective thought or philosophy. Some of the philosophers like Wittgenstein have highlighted therapeutic nature of philosophy. Thus, there is scope to contemplate on the therapeutic foundations of philosophy. Can philosophic activity work as a therapy? Wittgenstein talks about philosophical problem as "I don't know my way about." For him this is a problem of approach to language. Sartre, with his fundamental statement about self "Existence precedes essence" builds a strong foundation for the necessity of nonessential nature of self. There are psychiatrists like Karl Jaspers who later turned to philosophy. Jaspers' insistence on existential communication can prove to be an important aspect of therapy. Erich Fromm's method of therapy, his affinity and differences with Sigmund Freud and psychoanalysis can further broaden the canvas of philosophical foundations of therapy. It will look at existential philosophy's engagement with therapy. Aim of this paper is to present the possibility of a reciprocal relationship between therapy and philosophy.

Iron Oxide Nanoparticle: A Theranostic Tool (A New Precision Medicine Approach)

Priyanka Madhav Kambli

Department of Biotechnology

Iron oxide nanoparticles have attracted an immense interest in scientific research and industrial applications. These NPs are at the forefront of development in nanotechnology, due to their unique large surface-to volume ratios. Despite the well-known methodologies for synthesis and their wide use, recent advances pave a way for modification of naked iron oxide nanoparticles exhibiting peculiar surface chemistries, appropriate for other competitive biomedical as well as theranostic applications. Main discussion of this thesis is application of functionalized biocompatible magnetite nano-colloid for biomedical and other *in vitro* applications including PCR amplification, reduced amyloidosis and differentiation inducing agent in C6 glioma cells.

Moderation: Kanchana Mahadevan & Anil Karnik

Time Slot: 11.35 a.m. – 12.35 p.m.

Cultural Relevance of Memory in Günter Grass' *The Tin Drum* and Salman Rushdie's *Midnight's Children*

Nanda Nandedkar

Department of German

The field of memory studies has developed over the past twenty years and has offered a new common ground for discussion to scholars from different disciplines like sociology,

anthropology, philosophy, psychology, history and literature. Much writing has been concerned with the theory or has taken the form of critical commentary because of the different inputs into this developing field. It has been seen that the methodological issues surrounding the use of memory, have not yet received full attention. This research titled “*Cultural-historical relevance of memory in literary works “Die Blechtrommel” (The Tin Drum) by Günter Grass and “Midnight’s Children” by Salman Rushdie*” will examine the role of individual and collective memory in remembering the history i.e. communicating the history through memory. The proposed research aims also to generate new knowledge for how historical events are expressed and history reconstructed in discourse and to assess the relative role of memory and culture of remembrance.

The Exciting World of Particle Physics

Bipin Sonawane

Department of Physics

Elementary Particle Physics explores and studies the structure of matter at most fundamental level. It also answers the most curious and basic questions like what is the matter made up of, what are the fundamental interactions which govern elementary particles and so on. Historical development of particle physics is quite interesting and itself a topic of studies. This study is systematically done under a model called standard model of particle physics whose journey begins with discovery of the electron in 1897 and completes a cycle with discovery of Higgs boson in 2012. Still we need to know the fine properties and exact physical laws which govern these elementary particles and fundamental interactions. The process of revealing the secrets of mother nature is moving up through the deep research in particle physics and other areas of Natural Sciences.

A Study of Albumin-Nanoparticle Conjugates using Biophysical Approach for the Development of Targeted Drug Delivery

Manik Narayan Waghmare

Department of Biophysics

It is well known that when nanoparticles (NPs) are exposed to biological fluid, it results into formation of nanoparticle protein corona, which has been the subject of extensive studies for the development of targeted drug delivery. In this work, we demonstrate the dynamic light scattering, fluorescence, UV-visible, and CD spectroscopy as quantitative and qualitative tools to monitor adsorption of BSA protein onto silver nanoparticles (AgNPs). Both coronas were found to be biocompatible with RBC membrane. Further, the protein nanoparticle incubated with the human blood plasma for its stability in complex biological fluid. The

obtained results would be relevant in the drug design development for tumor-targeted therapy.

The German Epic *Nibelungenlied* and the *Mahabharata*: Values in Comparison

Nirupama Joshi

Department of German

The topic of my Ph.D is “Das Nibelungenlied und das Mahābhārata – eine axiologische Studie” meaning The Nibelungenlied and the Mahābhārata: An Axiological Study. The Nibelungenlied and the Mahābhārata are two significant epics of Germany and India respectively. Axiology is a branch of philosophy which undertakes the study of values. This thesis intends to analyze the Nibelungenlied and the Mahābhārata from an axiological perspective.

The fatal war, revenge motive, very strong female characters as well as values like loyalty, honor, courage, strength and justice are significant and common in both the epics. However, the epics differ substantially in dealing with the ethical issues in the story. By applying the method of comparative literature studies, this thesis aims at analyzing the similarities and differences in these epics, with particular focus on values.

Session III:

Moderation: Romar Correa & Renu Modi

Time Slot: 02.00 p.m. – 02.30 p.m.

Lyotard's Critique of Marxism

Viplov S. Dhone

Department of Philosophy

The Cartesian subject has been central to the history of philosophy since the inception of modernity. From the last century onwards the position of this subject has been challenged by various turns of continental philosophy like linguistic turn, postmodern/ post-structural turn and the recent revival of the speculative turn. This thesis is an analysis of the elimination of subject by the postmodern turn, in general and Lyotard, in particular. It examines the postmodern critique of Marxism as based on the subject position through a focus on Lyotard. It notes that the Lyotardian critique of the subject is not absolute elimination as such but it's a celebration of unheard and marginalized subject(s). Hence, the claims of identity politics are introduced. This thesis defends the possibility of reconstructing the Marxist understanding of subject and its emancipatory politics in the light of the postmodern challenge posed by Lyotard.

Tag: Marxism, Postmodernism, emancipation, Marx, Lyotard.

Laser Interaction Studies with Magnetic Fluids

Chintamani Pai

Department of Physics

My research work involves studying the magnetic nanoparticles dispersed in liquid media. External magnetic field drives the self-assemblies of magnetic nanoparticles in the form of chains and bundles along the direction of the field lines. The presence of various forces arising from the nature of nanoparticles, liquid media affects the self-assembly dynamics. This is studied by passing a laser beam through magnetic fluids and investigating magnetofluidic laser scattering exhibiting interesting magneto-optical effects. I have studied commercial magnetic fluids (comprising of Fe₃O₄ nanoparticles) to probe the effect of various forces inside the liquid medium governing the motion of magnetic nanoparticles.

Dr. B. R. Ambedkar's Buddhism and Vipassana Meditation: A Critical and Exploratory Analysis

Jyoti Pradeep Waghmare

Department of Philosophy

The reconstruction of Buddhism has been paved by Dr. B. R. Ambedkar, in the form of Navayan or Neo-Buddhism. Navayan, means a new vehicle, new beginning, and emersion of the new religion. After Mahaparinibban of Lord Buddha, several rituals were added to Buddhism. Dr. Ambedkar wanted to eradicate them from his own Neo-Buddhism. He did not accept ritualistic Buddhism and introduced the principles of Neo-Buddhism in his posthumous work *The Buddha and his Dhamma*. This led to a rejuvenation of Buddhism in India- after centuries- based on the non-ritualistic, rational approach initiated by Dr. Ambedkar. Neo-Buddhism enabled socially underprivileged castes to acquire a social identity. In the contemporary world, there has been a parallel development of Buddhism yet again, but this time in the Western context by Vietnamese Zen Buddhist teacher Thich Nhat Hanh. He introduced the term 'engaged Buddhism' with reference to Buddhists who seek ways to apply the insights from meditation practice and dharma teachings to situations of social, political, environmental and economic suffering. He was active in the peace movement in the context of the Vietnam war. Thich Nhat Hanh promoted non-violent solutions to conflict. At first sight, Dr. Ambedkar's Buddhism appears to focus on the external social dimension for change, while Thich Nhat Hanh is engaged with internal change to address social problems. A key question, therefore, concerns the status of meditation in Neo-Buddhism. The possibility of reconciling Dr. Ambedkar with Thich Nhat Hanh depends on this question. Such a reconciliation matters because Dr. Ambedkar has been characterized

by scholars such as Christopher Queen as an ‘engaged Buddhist’. The practice of meditation is central to Buddhist traditions. This research attempts to discern evidence for meditative practices such as Vipassana in Neo-Buddhism. As a philosophical study, this will address the following questions: What are the principles of Neo Buddhism? Did Dr. Ambedkar accept meditative practices such as Vipassana meditation? These questions are essential for understanding Dr. Ambedkar’s approach to religion and philosophy in the context of contemporary concerns. Neo-Buddhism and engaged Buddhism are both significant in redefining Buddhism a critical and harmonizing framework in the twenty-first century. Hence, one needs to investigate the extend to which both are rooted in and motivated by the core moral principles of the Buddha himself.

Moderation: Romar Correa & Renu Modi

Time Slot: 02.30 p.m. – 03.20 p.m.

Impact of Cluster Development Programme on Micro and Small Enterprises: Textile Cluster in Maharashtra

Jigar Bharat Mehta

Alkesh Dinesh Mody Institute for Financial & Management Studies.

Textile mills originated from Maharashtra and are 2nd largest employer and contribute 27% of India’s total export.

Cluster Definition as per ‘Ministry of MSME’ (MSECDP) - ‘A cluster is a group of enterprises located within an identifiable and as far as practicable, contiguous area and producing same/similar products/services. Further, the facility at cluster can also be availed by non-members by paying minimal charges above the registered members. This also led to entrepreneurship spirit among nearby youths where the cluster is formed. This concept is in line of ‘Make in India’ program & ‘Skill India’ initiative taken up by our Hon’ble Prime Minister. Ministry of MSME, GOI has adopted the cluster development approach as a key strategy for enhancing the productivity and competitiveness as well as capacity building of MSEs.

Research Design & Methodology: The study will be descriptive as well as exploratory & would be based on documentary and field studies. The immediate problem faced by cluster members and non -members would be highlighted and solution would be provided. Researcher would be visiting 4 Textile clusters covering 80% of respondents.

Yakshagana Theatre in Mumbai

Y V M Rao

Department of Kannada

Yakshagana Bayalata is a form of performing art , popular in coastal Karnataka . This is also popular in Mumbai and practiced by Tulu and Kannada speaking people for more than 150 years . It is considered a total theatre as It has all four forms of abhinaya (exhibiting feelings through facial expressions and limb movements),ie Angika(limb movement), Vachika(dialogue), Aharya(Costumes) and satvika (expression of moods) . There are more than 15 groups presently performing this art in Mumbai. The performance stretches for 6 to 8 hours and contains stories from Ramayana, Mahabharata and other puranas. My project aims to analyse the contribution of the folk art Yakshagana to the cultural field of Mumbai.

Nayyar Masud : Short Story Writing

Ansari Sabteen Alam

Department of Urdu

In this presentation, I would like to present a critical review of the Nayyar Masood's fiction, which comprises mainly of short stories. Nayyar Masud (1936 – 2017) was an Urdu scholar and short story writer. He was an important writer of the movement of modernity in the Urdu literature. I also wish to illuminate on quality of Davidi in his short stories, thereby also giving an insight into the creative individuality of Nayyar Masood.

Estimating Impact of Energy in Russian Economy: A Statistical Analysis

Kashyap K B Pathak

Centre for Central Eurasian Studies.

The study covers the period from the disintegration of Soviet Union in the year 1991 till the event of BREXIT in 2017. It will try to find out how far oil and natural gas has driven the economy of Russia. Further, it will analyse the effect of sanctions imposed by the West on Russia after annexing Crimea from Ukraine. Keeping in mind the energy-starved nations in Asian continent like India, China, Pakistan, etc; the study will try to find how Russia can export its oil and natural gas to them. What are the hurdles to improve Russia's energy trade with India? And try to come out with its appropriate solution which can lead to a win-win situation for all the participating countries and create peace and stability in the region.

Keywords : Energy Trade

Culture, Communications and Crisis Interpretation

Noumaan Qureshi

Communications & Journalism

The Excellence Study by Grunig et.al indicated the two-way symmetrical model as the ideal for public relations practice to mitigate conflict and thereby reduce costs and risks for businesses. In an earlier study, Grunig et.al identified four models of public relations practice viz. press agency; public information; two-way asymmetrical and two-way symmetrical. From the 1990's, researchers felt the need to understand the cultural context for communications, as the organisations studied under Excellence Study were located in US & UK. In future studies to check global relevance of Excellence Study, researchers studied six variables – culture, political system, economic system, level of development, activism and media – that impact the practice. For India, Sriramesh Krishnamurthy, a public relations researcher based in US, identified the '**Personal Influence**' model in practice.

My literature review currently is focused on studying the six variables - culture, political system, economic system, level of development, activism and media – for India and its bearing on crisis communications.

Session IV:

Moderation: Smita Shukla & Anuradha Mishra

Time Slot: 3.35 p.m. – 4.15 p.m.

Physical Conditions in Damped Lyman-alpha Absorbers

Katherine Rawlins

Department of Physics

Damped Lyman-alpha absorbers (DLAs) are neutral gas clouds observed towards luminous background sources like quasars. They are associated with star formation, and are important in understanding galaxy formation and evolution. My research involves spectroscopic analysis & numerical simulation of DLAs in the distant Universe. Absorption lines of various atomic and molecular species are detected in DLA spectra obtained at the Very Large Telescope, Chile. Voigt profile fitting of these lines yields column densities of these species. The measured column densities are then used to constrain DLA models, which give us insight into the physical environment therein.

Fictional History in Selected Contemporary German Novels (Hyperreality / Pastiche)

Shrikant Pathak

Department of German

For my Ph. D., I've selected three contemporary German novels Imperium by Christian

Kracht, Measuring the world (Die Vermessung der Welt) by Daniel Kehlmann and Look who's back (Er ist wieder da) by Timur Vermes. All these novels deal with historical figures in an unconventional manner. What is the role of the fictional history in these novels?

In today's age of technology, Baudrillard's concept of hyperreality has become a relevant term to describe the society. Is hyperreality also reflected in these novels? Pastiche as a style imitation is an important tool in postmodern novels. Do the selected novels employ it and for what purpose? This paper presents in brief the main theoretical concepts and how they reflect in the selected literature.

निःशुल्क व अनिवार्य बाल शिक्षा का अधिकार अधिनियम – 2009 : अधिकार बनाम जरूरत

Vinod Chandrabali Yadav
Department of History

मेरा यह विषय प्रथम दृष्टया शैक्षणिक विषय प्रतीत होता है, परंतु मैं इस विषय पर ऐतिहासिक दृष्टि से चर्चा करूँगा।

मेरा पी.एच.डी शोध का विषय 'बृहन्मुंबई मनपा संचालित मुंबई के प्राथमिक विद्यालयों का ऐतिहासिक अध्ययन' है। उपयुक्त विषय में मैं 'निःशुल्क व अनिवार्य बाल शिक्षा का अधिकार अधिनियम – 2009' की विवेचना भी करूँगा। इस अधिनियम का कार्यान्वयन 2009 में भारत में तथा 2010 में महाराष्ट्र में की गई।

निःशुल्क व अनिवार्य बाल शिक्षा का अधिकार अधिनियम – 2009 को लागू करने के बाद से अपेक्षा यह थी कि प्रत्येक बालक को शिक्षा प्रदान की जाये। भारत में अनिवार्य शिक्षा प्रदान करने तथा बालकों को निःशुल्क शिक्षा प्रदान करने का प्रयास आजाद भारत के पहले भी किया जा चुका है। उसकी ऐतिहासिक रूप से चर्चा इस लेख में की जाएगी।

Assessment of BMC Schools on the Basis of Adherence to Mid-Day Meal Programme Guidelines

Geeta Menezes
Mumbai School of Economics and Public Policy

Mid Day Meal Programme (MDMP) in India is the world's largest school feeding programme aimed at providing nutritional support to school children. Brihanmumbai Municipal Corporation (BMC) implements MDMP for around 4.94 lakh children enrolled in 2225 civic and private aided schools of Mumbai. BMC has often been criticized in the media for shoddy implementation of MDMP. The present study, keeping MDMP guidelines as a benchmark, strives to assess BMC schools on the basis of compliance to MDMP guidelines, so that the problems in the implementation of MDMP can be identified and rectified. The

study is descriptive, based on intensive field work research, covering one school from each of the 24 wards of BMC. Results show that MDMP guidelines with respect to MDMP awareness, health interventions, quantity and quality of mid day meals served are not adhered to by the BMC Schools. School authorities could play a more pro-active and assertive role in ensuring that quality and quantity and palatability of mid day meals are above reproach and hygiene and sanitation practices are strictly implemented at every level.

Keywords – Mid Day Meal Programme, BMC, schools

Moderation: Smita Shukla & Anuradha Mishra

Time Slot: 04.15 p.m. – 05.05 p.m.

An Introduction to Extra Dimensions

Namrata Manglani

Department of Physics

The Large Hadron Collider (LHC) at CERN, with its discovery of the Higgs boson has delivered the last missing piece for one of the most successful theory of particle physics, the Standard Model. This talk provides a brief overview of the Standard Model (SM) theory. Even with the overwhelming success of the SM theory in explaining the LHC experiment results, there are many mysteries of nature to which the SM has no answer. Thus, there is a need to look beyond the SM, and extra dimensions are an attractive option, they provide a possibility to answer some of these puzzles. The talk will also cover interesting features of extra dimensions and their signatures that can be probed at the ongoing experiments at the LHC.

Multiwaveband study of TeV blazar

Sonal R. Patel

Department of Physics

Blazars are subclass of active galactic nuclei with relativistic jets pointing close to the line of sight of observer. We have carried out spectral and temporal studies of nearby TeV Blazar 1ES 1959+650 ($z=0.047$) using multiwaveband data collected over the period of two years. It was found that the conventional synchrotron self compton (SSC) model is not always adequate to reproduce and understand the spectral energy distributions (SEDs) of the blazar. We made an attempt to explain broadband emission mechanism using two zones SSC model fit to six different epochs of the flare which was occurred in June-June 2016. The results and the implications of this model fit will be discussed.

Sustainable Organic Value Chains and Inclusive Marketing for Rural Poverty Alleviation in Vidarbha Region of Maharashtra

Kripal Singh Niranjana

Alkesh Dinesh Modi Institute for Financial & Management Studies

In Vidarbha region of Maharashtra, there are numerous development partners are actively engaged in convergence of agriculture intervention programmes to strengthen inclusive business models, linking smallholders in value chains. In spite of huge expenditure and countless input, implementation of these programmes is underutilized or has been withdrawn. This research analyzes the determinants of sustainable organic value chains and inclusive marketing. On the basis of primary data from 720 small and marginal farmers, by using multivariate technique like factor analysis and MANOVA, to find key factors which affects the inclusive business models for organic products and value chains activities that can provide a meaningful approach to poverty reduction and rural development. Keywords: Sustainable agriculture value chain, inclusive marketing, smallholder farming, inclusive business model, and Social entrepreneurship

Functionalization of Albumin Bound Silver Nanoparticle – A Biophysical Study

Vinod D. Jaiswal

Department of Biophysics

The binding behaviour of Bovine Serum albumin (BSA) with silver nanoparticles (SNP) was optimised. SNP was synthesized using chemical reduction method and characterized using Dynamic light Scattering (DLS) and UV visible spectroscopy. The fluorescence results show the binding behaviour of the albumin with SNP. FTIR spectroscopy show modification in secondary structure of albumin bound silver nanoparticles. Complexes were found stable under physiological condition as confirmed by zeta potential. Interaction between albumin binding drug and albumin bound silver nanoparticles was also studied. Strong binding between drug and BSA-SNP complex was observed.

Generating Meaningful Recipes using Artificial Intelligence

Indrani Sen

Department of Computer Science

Artificial Intelligence has spread its wings in almost all domains including the areas which require human creativity. Recipe development has been one of the core competencies of chefs and home cooks etc. who create new recipes using their creative skills. An innovative recipe can be created by replacing the key ingredient with a compatible ingredient or by modifying a method of an existing recipe.

This proposal is to develop a tool for creating new recipes using various approaches of Artificial Intelligence. The tool has various components like metadata extractor from the existing recipes from the web, recipe annotator for the corpora using POS tagging and creating a dependency graph of the same. AI techniques have been employed to find the suitable ingredient combinations and to apply quality check to validate a newly created recipe. A scheduler and Natural language interface are the value additions.

This recipe generator is expected to be outperforming the contemporary ones like IBM Chef in market.

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**IQAC & Department of German
University of Mumbai
Interdisciplinary Ph.D. Research Colloquium**

Date: 21st July 2018

Venue: ICSSR Hall, J. P. Naik Bhavan, Kalina Campus, Kalina Campus, University of Mumbai

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