

CHRIST
(DEEMED TO BE UNIVERSITY)
BANGALORE · INDIA

CHRIST (Deemed to be University), Bangalore

Centre for Education Beyond Curriculum (CEDBEC)

**NATIONAL SEMINAR
ON
EDUCATION, NEUROSCIENCE, TECHNOLOGY AND PEDAGOGY:
NEURO-SYSTEMIC INFLUENCE ON LEARNING
12 – 14 November 2019**

Pre-Notice

Dear Sir/Madam

We are pleased to invite you to a three day National Seminar on **Education, Neuroscience, Technology And Pedagogy: Neuro-Systemic Influence On Learning** be held on 12 – 14 November 2019 in the Main Campus, CHRIST (Deemed to be University), Bangalore.

Background

Following the work of David Kolb and others, in experiential – learning - engine learner experiences a transformation while passing through the spiral of experience of knowledge, reflecting on the experience, abstract conceptualisation and planning for further action. This is an interplay between objectivity and subjectivity while experiencing to conceptualisation is grasping or comprehending axis whereas reflection to planning for further action is transformation axis. These two axes together constitute experiential learning plane pivoted on the neuro-psychic system of the learner, learner's personal preferences and the learning environment, which may be collectively called the learning space. Learning curve spirals upward around the vertical axis to this plane which is dependent on the style of learning of the learner.

Teachers objectively create learning spaces by the information and activities they offer in their course; but this space is also interpreted in the students' subjective experience through the lens of their learning style.

In the process of learning as experiencing knowledge, human brain plays a vital role as the central governing system to map the images of learning in the human brain which may be called educational neuroscience. It provides means to develop a common language and bridge the gulf between educators, psychologists and neuroscientists. The emerging field of educational neuroscience presents opportunities as well as challenges for education.

The most effective learning involves recruiting multiple regions of the brain for the learning task. These regions are associated with such functions as memory, the various senses, volitional control, and higher levels of cognitive functioning.

By considering biological factors, research has advanced the understanding of specific learning difficulties, such as dyslexia and dyscalculia. Likewise, neuroscience is uncovering why certain types of learning are more rewarding than others. The brain changes constantly as a result of learning and remains 'plastic' throughout life to construct spiral of learning development. Neuroscience has shown

that learning a skill changes the brain and that these changes revert when practice of the skill ceases. Hence 'use it or lose it' is an important principle for lifelong learning.

Resilience, our adaptive response to stress and adversity, can be built up through education with lifelong effects into old age. Both acquisition of knowledge and mastery of self-control benefit future learning. Thus, neuroscience has a key role in investigating means of boosting brain power. Some insights from neuroscience are relevant for the development and use of adaptive digital or artificial intelligence technologies. Lot of research has gone in the field of neural network in computer science and robotics. It is worthwhile to consider these research areas in investigating the interplay between human brain and human formal/natural learning. These technologies have the potential to create more learning opportunities inside and outside the classroom, and throughout life. This is exciting given the knock-on effects this could have on wellbeing, health, employment and the economy

The learning style and adaptability to learning space is special to each individual and therefore the learning depends on the neuro-systemic influence on the personality of the learner. The seminar on EDUCATION, NEUROSCIENCE, TECHNOLOGY AND PEDAGOGY: NEURO-SYSTEMIC INFLUENCE ON LEARNING intends to bring together Experts, Researchers and Professionals in Neurosciences, Artificial Intelligence, Brain Sciences, Technology, Psychologists, Medical Education, Engineering Education and Pedagogy to network and integrate neuro-science, artificial intelligence, educational psychology and pedagogy on a single platform to transform teaching, learning and education. The deliberations in the seminar may open-up areas of interdisciplinary research and change the face of teaching learning and Education.

About the University

CHRIST (Deemed to be University) was born out of the educational vision of St Kuriakose Elias Chavara, an educationalist and social reformer of the nineteenth century in South India. He founded the first Catholic indigenous congregation, Carmelites of Mary Immaculate (CMI) in 1831 which administers CHRIST (Deemed to be University).

Established in 1969 as Christ College, it undertook path breaking initiatives in Indian higher education with the introduction of innovative and modern curricula, insistence on academic discipline, imparting of Holistic Education and adoption of global higher education practices with the support of creative and dedicated staff. The University Grants Commission conferred Autonomy to Christ College in 2005 and identified it as an Institution with Potential for Excellence in 2006. In 2008, under Section 3 of the UGC Act, 1956, the Ministry of Human Resources Development of the Government of India, declared the institution a Deemed to be University, in the name and style of CHRIST (Deemed to be University). One of the first institutions in India to be accredited in 1998 by the NAAC, and subsequently in 2004 and 2016 CHRIST (Deemed to be University) has the top grade 'A' in the 4-point scale.

The multi-disciplinary University which focuses on teaching, research and service offers Bachelors to Doctoral programmes in Humanities, Social Sciences, Science, Commerce, Management, Engineering, Education and Law to over 21,000 students. The campus is a living example for the harmonious multiculturalism with students from all the states of India and from around 60 different countries. CHRIST (Deemed to be University) publishes six peer-reviewed research journals and has published around 200 books in Kannada and in English. A promoter of sports, music and literary activities, it is a nurturing ground for creative excellence.

Centre for Education Beyond Curriculum (CEDBEC)

The Centre has been conceived to stimulate and rediscover through experience, the perspectives in education so that individuals and institutions reflect and rediscover themselves and move towards a sustainable progress in the educational arena.

Themes

- Education, Neuroscience, Technology and Pedagogy
- Neuro-Systemic Influence on the Personality of the Learner
- Neuro-Systemic Influence, Learning Style and Adaptability to Learning Space Experiential Pedagogy
- Nature and Nurture Affect the Learning Brain
- Education is a Powerful Form of Cognitive Enhancement
- Neuroscience Informs Adaptive Learning Technology
- Individual Differences in Learning Ability with a Basis
- Technology Aided Learning versus Natural Learning against Neuro-Systemic Perspective
- Artificial Intelligence versus Natural Intelligence Against Neuro-Systemic Perspective
- Neuro-Systemic Influence, Learning Style and Adaptability to Learning Space by the Physically Challenged
- Neuroscience and Appropriate Pedagogy for Dyslexia and Dyscalculia
- Identifying the 'Self' as a Learner and 'Learning How to Learn'
- Inclination to Rote Learning by Choice as a Systemic Disorder
- Neuro-Systemic Influence on Peer Pressure and Competition
- Neuro-Systemic Influence on Psychomotor Skills
- Ego as an Obstacle in the Process of Learning

Methodology

Case Studies, Presentations, Panel Discussions and Interactive Sessions

Delegate Profile

Faculty in Universities and Colleges, Colleges of Education, Principals of Colleges, Deans, Heads of Departments of Universities, Researchers and Professionals in Neurosciences, Artificial Intelligence, Brain Sciences, Technology, Psychologists, Medical Education, Engineering Education and Pedagogy and others interested in the themes of the seminar.

Registration for the Seminar and Submission of Abstracts

A participant intending to present a paper in the Seminar should send an abstract of about 100 words. The abstract along with the completed registration form and the DD/online payment receipt towards registration fee should reach the Director, Centre for Education Beyond Curriculum (CEDBEC), CHRIST (Deemed to be University) Hosur Road, Bengaluru- 560 029 on or before 10 October 2019.

Submission of Full Length Paper

The full length paper should not exceed 3000 words and should be typed in a single column, with 1.5 line spacing in Times New Roman 12 font size. The first page should include the paper title, with author's name, postal address, telephone number and e-mail id on the right top corner of the page. Please do not add a cover page for the paper. The paper must be presented by the author or the co-author. The full length paper with the abstract should be forwarded to cedbec@christuniversity.in on or before November 2, 2019.

Paper presentation is not mandatory for participation in the seminar. You can still register as a delegate.

Important Dates:

Last date for submission of abstract: 10 October 2019
Communication on selected papers: 15 October 2019
Last date for submission of full length paper 2 November 2019

Registration Details

Last date for all Registrations 12 November 2019

Outstation Participants

Rs.5,000/- (Rupees five thousand only) per person (includes seminar kit, food and accommodation)

Local Participants

Rs.4,000/- (Rupees four thousand only) per person (includes seminar kit and food)

Payment Details

Demand Draft (DD) for the specified amount to be drawn in favor of "Christ University, Bengaluru" payable at Bengaluru.

Online Payment Link:

Option to pay fee vide debit / Credit card /Internet banking is available in our website
<http://christuniversity.in> → Visitors → Online Payment Portal → Seminar.

Accommodation:


Accommodation for all the out station participants will be provided at the Centre for Academic Excellence, CHRIST (Deemed to be University) Campus, Hosur Road, Bengaluru-560029

Venue of the Programme: Seminar Hall, IV Floor, Christ Junior College Block, CHRIST (Deemed to be University), Bangalore.

Address for communication and for further information/clarification:

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Fr Jose C C
Pro-Vice Chancellor



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Registration Form

- Name (in capital letters) _____ Gender _____
- University /College with address _____

- Official E-mail ID _____ Phone _____
- Designation /Department _____ Experience (Yrs) _____
- Residential address _____

- Personal E-mail ID _____ Phone _____
- Date: _____ Signature: _____
- Signature of Vice Chancellor/Registrar/Principal _____
- Date: _____ Place: _____
- University/Institution Seal

Payment Details

- DD No./Online Pymt Receipt No _____ Amount _____ Date _____
- Drawn on _____
- I will / will not present a paper (Please tick)
- Food preference: Vegetarian / Non Vegetarian (Please tick)
- Accommodation: Yes No (Please tick)