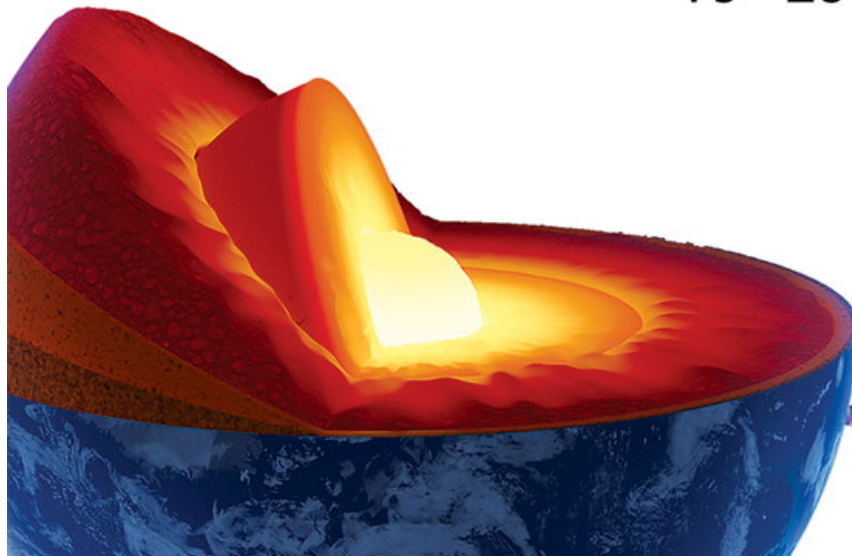




*A short course on*

**GEODYNAMIC PROCESSES:  
EVOLUTION OF GEOPHYSICAL  
FIELDS, TECTONICS AND CLIMATE**

19 - 23 September, 2016



CENTRE FOR EARTH SCIENCES  
INDIAN INSTITUTE OF SCIENCE



Sponsored by MoES

### **Schedule of Geodynamics - 2016**

**Registration:** Online registration will be verified on 19.09.2016 between 9:00 - 10:00 AM

	Day 1	Day 2	Day 3	Day 4	Day 5
	Monday (19.09.2016)	Tuesday (20.09.2016)	Wednesday (21.09.2016)	Thursday (22.09.2016)	Friday (23.09.2016)
Session 1 09:30 - 10:30	Registration, Welcome talk	SK	KR	VG	MoES Secretary: Lecture
Session 2 10:30 - 11:30	KR	RC	SK	KG	MoES Secretary: interactions
11:30 - 11:45	Break for refreshments				
Session 3 11:45 - 12:45	JM	JS	SPS	RK	SPS
12:45 - 14:00	Break for Lunch				
Session 4 14:00 - 15:00	CP	CP	CP	AG	VMT
Session 5 15:00 - 16:00	KR	PG	KR	VG	NK
16:00 - 16:15	Break for refreshments				
Session 6 16:15 - 17:15	Discussion: Evolution of the early earth and life (RC)	Discussion: Tectonics and climate (PG)	Discussion: Understanding mantle Plumes (AG)	Discussion: Challenges in Earth Sciences (CP)	Distribution of certificates

**List of speakers:**

- KR - Prof. Kusala Rajendran**, Centre for Earth Sciences, IISc, Bangalore  
**NK - Prof. D. Nagesh Kumar**, Centre for Earth Sciences, IISc, Bangalore  
**PG - Dr. Prosenjit Ghosh**, Centre for Earth Sciences, IISc, Bangalore  
**SK - Dr. Sajeer Krishnan**, Centre for Earth Sciences, IISc, Bangalore  
**AG - Dr. Attreyee Ghosh**, Centre for Earth Sciences, IISc, Bangalore  
**RC - Dr. Ramananda Chakrabarti**, Centre for Earth Sciences, IISc, Bangalore  
**SPS - Dr. S. P. Satyabala**, DIVECHA CENTRE FOR CLIMATE CHANGE, IISc, Bangalore  
**CPR - Prof. C.P. Rajendran**, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR)  
**VMT - Dr. V.M.Tiwari**, Director, NGRI  
**RK - Dr. M. Ravi Kumar**, Director, ISR, Gandhinagar  
**VG - Dr. Vineet Gahalaut**, Director, NSC, Delhi  
**KG - Dr. Kalpna Gahalaut**, Scientist, NGRI  
**JM - M. Jayananda**, Professor, University of Hyderabad  
**JS - Dr. Jaishri Sanwal**, Research Scientist, JNCASR, Bangalore

### List of Lectures

Day / Session	Speaker	Title
D1-S1	KR	Welcome and Introduction to the course
D1-S2	KR	Physical fields of the Earth: Shape and Gravity
D1-S3	JM	Archean tectonics and continental growth: Insights from the Dharwar craton, southern India
D1-S4	CP	Earthquake recurrence along the plate boundaries (Part 1)
D1-S5	KR	Physical fields of the Earth: Magnetic field of the Earth
D1-S6	RC	Discussion: Evolution of the early earth and life
D2-S1	SK	Dating rocks or textures: implications on understanding tectonics (Part 1)
D2-S2	RC	Chemical geodynamics of the Nyiragongo and Nyamuragira volcanics, East African Rift
D2-S3	JS	Inferring past climatic changes using multiple proxies and analytical techniques
D2-S4	CP	Earthquake recurrence along the plate boundaries (Part 2)
D2-S5	PG	Tectonic evolution of young mountain belts: feedback on monsoon circulation
D2-S6	PG	Discussion: Tectonics and climate
D3-S1	KR	Physical fields of the Earth: Internal structure, tectonics and seismicity (Part 1)
D3-S2	SK	Dating rocks or textures: implications on understanding tectonics (Part 2)
D3-S3	SPS	InSAR and its applications in ground deformation studies (Part 1)
D3-S4	CP	Earthquake recurrence along the plate boundaries (Part 3)
D3-S5	KR	Physical fields of the Earth: Internal structure, tectonics and seismicity (Part 2)
D3-S6	AG	Discussion: Understanding mantle Plumes
D4-S1	VG	Applications of GPS geodesy in mapping tectonic deformation (Part 1)
D4-S2	KG	Role of fluids in triggering earthquakes/poroelastic theory and the earthquake occurrence
D4-S3	RK	Evolution of the lithosphere and mapping its structure
D4-S4	AG	Geodynamic models of the Earth's interior
D4-S5	VG	Applications of GPS geodesy in mapping tectonic deformation (Part 2)
D4-S6	CP	Discussion: Challenges in Earth Sciences
D5-S1	Secretary	Climate Change over India: Observations and Modelling
D5-S2	Secretary	Interactions
D5-S3	SPS	InSAR and its applications in ground deformation studies (Part 2)
D5-S4	NIK	Applications of Remote sensing and GIS in Earth Sciences
D5-S5	VMT	Strength of Lithosphere: Estimates from gravity and topography data
D5-S6	Valedictory	