

ADVANCED LEVEL TRAINING PROGRAMME ON DIFFERENTIAL EQUATIONS

Date: 26 May – 13 June, 2014

Venue: School of Mathematics

Indian Institute of Science Education and Research Thiruvananthapuram

CET Campus, Sreekaryam

Thiruvananthapuram 695016, Kerala

www.iisertvm.ac.in

1. SCHEDULE OF LECTURES

Inauguration: 09:00 - 09:15 on 26 May, 2014: The Director, IISER-TVM, will officially inaugurate the programme which will be followed by the lecture of Prof. Adimurthi from 09:20 onwards.

Schedule of Lectures - First week (26 May - 31 May, 2014)

Day Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
09:00 - 10:30	AA	GDVG	AA	KTJ	MV	MV
10:30 - 11:00	Tea Break	Tea Break	Tea Break	Tea Break	Tea Break	Tea Break
11:00 - 12:30	GDVG	AA	KTJ	MV	KTJ	MATLAB-II: KRA
12:30 - 14:00	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
14:00 - 15:30	AA	GDVG	PSS-II: UM/MTM	KTJ	MV	
15:30 - 16:00	Tea Break	Tea Break	Tea Break	Tea Break	Tea Break	
16:00 - 17:30	PSS-I: UM/MTM	AA	MATLAB-I: KRA	MV	PSS-III: UM/MTM	

AA: Adi Adimurthi: *Distribution Theory*

GDVG: G. D. Veerappa Gowda: *FD/FV Methods for Conservation Laws*

KTJ: K. T. Joseph: *Hyperbolic Conservation Laws*

MV: M. Vanninathan: *Sobolev Spaces*

UM/MTM: Utpal Manna/Manil T. Mohan: *Problem Solving Session (PSS)*

KRA: K. R. Arun: *Introduction to MATLAB*

Schedule of Lectures - Second week (02 June - 07 June, 2014)

Day Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
09:00 - 10:30	NS	NS	RKG	AKP	AKN	AKN
10:30 - 11:00	Tea Break	Tea Break	Tea Break	Tea Break	Tea Break	Tea Break
11:00 - 12:30	AKP	AKP	NS	AKN	LAB-II: AD/SK	LAB-III: AD/SK
12:30 - 14:00	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
14:00 - 15:30	NS	NS	AKP	AKP	AKN	
15:30 - 16:00	Tea Break	Tea Break	Tea Break	Tea Break	Tea Break	
16:00 - 17:30	PSS-IV: AD/SK	PSS-V: AD/SK	LAB-I: AD/SK	RKG	RKG	

NS: Nicholas Sabu: *Elliptic PDEs*

AKP: Amiya K. Pani: *Heat Equation & Semigroup Theory*

AD/SK: Aasha Dond/Sudeep Kundu: *Problem Solving Session (PSS) & Labs*

RKG: Raju K. George: *Finite Dimensional Control Theory*

AKN: A. K. Nandakumaran: *Controllability and Observability*

Schedule of Lectures - Third week (09 June - 13 June, 2014)

Day Time	Monday	Tuesday	Wednesday	Thursday	Friday
09:00 - 10:30	NN	TG	TG	MR	MKG
10:30 - 11:00	Tea Break	Tea Break	Tea Break	Tea Break	Tea Break
11:00 - 12:30	TG	NN	SD	MKG	MR
12:30 - 14:00	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14:00 - 15:30	NN	TG	LAB-IV: AD/SK	MKG	MKG
15:30 - 16:00	Tea Break	Tea Break	Tea Break	Tea Break	Tea Break
16:00 - 17:30	LAB: TG/NN	NN	SD	MR	MR

NN: Neela Nataraj: *FEM for Control Problems*

TG: Thirupathi Gudi: *FEM and Approximation Theory*

AD/SK: Aasha Dond/Sudeep Kundu: *Labs*

MR: Mallikarjuna Rao: *Viscosity Solutions*

MKG: Mrinal K. Ghosh: *Optimal Control and Dynamic Programming*