



**DAE-BRNS Workshop on Laser Additive Manufacturing & Allied Technologies  
(LAMAT-2k18)**

October 8 – 12, 2018

**Raja Ramanna Centre for Advanced Technology, PO:CAT, Indore**

**Time Table for LAMAT-2k18**

**Day 1: Monday, October 8, 2018**

<b>Time</b>	<b>Lectures/Talks</b>	<b>Lecturers</b>
9:30 AM – 11:15 AM	<i>Inaugural Function</i> <i>Talk by Chief Guest Prof. A K Nath, IIT Kharagpur, “Challenges in Additive Manufacturing and a roadmap for India” followed by High Tea</i>	
11:15 AM – 11:45 AM	Additive Manufacturing (AM) overview and Global perspective.	Dr. C P Paul, RRCAT
11:45 AM – 12:25 PM	Solid-modelling, 3D-Printing format, Reverse Engineering	Dr. Y Ravikumar, NIT Warangal
12:30 PM – 1:10 PM	AM Processes: Material Extrusion, Material Jetting and Binder Jetting.	Dr. Neeraj Sinha, IIT Kanpur
1:10 PM – 2:00 PM	<i>Lunch Break</i>	
2:30 PM – 5:30 PM	<i>Hands-on-Experiments at LAML &amp; LDIAD</i>	



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**Day 2: Tuesday, October 9, 2018**

9:30 AM – 10:25 AM	Lasers and Laser Physics	Dr. K S Bindra, RRCAT
10:30 AM – 11:25 AM	AM Processes: Vat Photo polymerisation and Sheet Lamination	Dr. Neeraj Sinha, IIT Kanpur
11:25 AM – 11:45 AM	<i>Tea Break</i>	
11:45 AM – 12:45 PM	AM in Medical Applications	Dr. Y Ravikumar, NIT Warangal
12:45 PM – 1:30 PM	<i>Lunch Break</i>	
02:00 PM – 5:30 PM	<i>Hands-on-Experiments at LAML &amp; LDIAD</i>	

**Day 3: Tuesday, October 10, 2018**

9:30 AM – 10:25 AM	LAM Machines & Processes	Dr. C P Paul, RRCAT
10:30 AM – 11:25 AM	Materials Properties & Metallurgy of LAM Components	Dr. Dheepa Srinivasan, InTech-DMLS & IIT Ropar
11:25 AM – 11:45 AM	<i>Tea Break</i>	
11:45 AM – 12:45 PM	LAM in Aerospace Applications	Dr. Dheepa Srinivasan, InTech-DMLS & IIT Ropar
12:45 PM – 1:30 PM	<i>Lunch Break</i>	
02:00 PM – 5:30 PM	<i>Hands-on-Experiments at LAML &amp; LDIAD</i>	



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**Day 4: Tuesday, October 11, 2018**

9:30 AM – 10:25 AM	Advanced LAM processes	Mr. P Bhargava, RRCAT
10:30 AM – 11:25 AM	Modelling of LAM - 1	Dr. Atul Kumar, RRCAT
11:25 AM – 11:45 AM	<i>Tea Break</i>	
11:45 AM – 12:45 PM	Modelling of LAM - 2	Dr. Srikanth Bontha, NIT Surathkal
12:45 PM – 1:30 PM	<i>Lunch Break</i>	
02:00 PM – 5:30 PM	<i>Hands-on-Experiments at LAML &amp; LDIAD</i>	

**Day 5: Tuesday, October 12, 2018**

9:30 AM – 10:25 AM	LAM of Smart Materials & MEMS	Dr. I A Palani, IIT Indore
10:30 AM – 11:25 AM	Post-Processing for LAM	Dr. I A Palani, IIT Indore
11:25 AM – 11:45 AM	<i>Tea Break</i>	
11:45 AM – 12:45 PM	<i>Presentation by Participants (6)</i>	
12:45 PM – 13:30 PM	<i>Concluding Ceremony</i>	



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**Hands-on Experiments (HOE)**

Group No.	October 8, 2018		October 9, 2018		October 10, 2018		October 11, 2018	
	I	II	I	II	I	II	I	II
G-1	HOE-1	HOE-2	HOE-1	HOE-2	HOE-1	HOE-2	HOE-1	HOE-2
G-2	HOE-2	HOE-1	HOE-2	HOE-1	HOE-2	HOE-1	HOE-2	HOE-1
G-3	HOE-3	HOE-4	HOE-3	HOE-4	HOE-3	HOE-4	HOE-3	HOE-4
G-4	HOE-4	HOE-3	HOE-4	HOE-3	HOE-4	HOE-3	HOE-4	HOE-3
G-5	HOE-5	HOE-7	HOE-5	HOE-7	HOE-5	HOE-7	HOE-5	HOE-7
G-6	HOE-7	HOE-5	HOE-7	HOE-5	HOE-7	HOE-5	HOE-7	HOE-5
G-7	HOE-6	HOE-8	HOE-6	HOE-8	HOE-6	HOE-8	HOE-6	HOE-8
G-8	HOE-8	HOE-6	HOE-8	HOE-6	HOE-8	HOE-6	HOE-8	HOE-6

HOE	Name of HOE	Co-ordinator ( Sh./ Dr.)
HOE-1	Laser Components & Construction	B N Upadhyay
HOE-2	Laser Components & Construction	P K Mukhopadhyay
HOE-3	Computer Aided Design & Reverse Engineering using Blue Light Scanner	P Bhargava/ C S Mandloi
HOE-4	Additive Manufacturing using Fused Deposition Modelling	G K Mishra/ Atul Kumar
HOE-5	Laser Additive Manufacturing using Direct Energy Deposition (LAM-DED)	Harish Kumar/ Upendra Kumar
HOE-6	Laser Additive Manufacturing using Powder Bed Fusion (LAM-PBF)	S K Mishra/ S K Nayak
HOE-7	Sample Preparation & Characterization	Sunil Kumar/ A N Jinoop/ Sunil Yadav
HOE-8	Mechanical Testing using Universal Testing Machine	C H Preamsingh/ A N Jinoop