

Establishment : June 1961 Independent : 1967

Re-accreditated 'A' Grade

Dayanand Education Society's

Dayanand Science College

Latur, Maharashtra (India) (UGC - CPE College) (DST-FIST Sponsored College)

(Best College Award by SRTMU, Nanded)

(Affiliated to - Swami Ramanand Teerth Marathwada University, Nanded)

Phone No.: (02382) 221149, 222929 E-mail: daya_scin1@rediffmail.com Fax No.: (02382) 221149 Website: www.dsclatur.org

Laxmiraman Lahoti

President

Dr. Jaiprakash Dargad

Principal

Ramesh Biyani

Secretary

Date:

29/01/2018

Ref. No. Re 12018-19/25

The Coordinator,

Dr. C S Ravikumar

Joint Science Education Panel,

Indian Academy of Sciences,

C. V. Raman Avenue,

Banglore 5600080.

Email - ravi@ias.ac.in

Subject: Submission of report of workshop along with the audited expenditure statement **Reference No.:-** SEP/LW/January/2019 Date:- 23 Oct. 2018.

Respected Sir,

With reference to the subject noted above we here by submitting the report of workshop along with the Audited Expenditure Statement of workshop entitled "Mathematics" helded at Dayanand Science College, Latur on 11th to 13th Jan. 2019. Please acknowledge it and issue the balance payment Rs. Forty Five thousand Three hundred and Seventy Five only (Rs. 45375/-).

Thanking you.

R. H. I

Coordinator

Yours faithfully,

Dr. J. S. Dargad

Principal

Encl:

- 1) Brochure and invitation card
- 2) Report of workshop
- 3) The audited expenditure statement
- 4) Schedule of workshop
- 5) List of students participated
- 6) Letter of attendance for participants
- 7) Photographic display
- 8) List of mentors
- 9) Feedback mail of Resource Person

SCIENCE ACADEMIES' EDUCATION PROGRAMME

SEP/LW/January/2019

23 October 2018

JOINT SCIENCE EDUCATION PANEL Dr R. H. Ladda Ex- Principal Bhagya Nagar Old Ausa Road Latur 413 512

Indian Academy of Sciences

Murthy, M.R.N. (Chairman) Kanharem D.G. (Co-Chairman) Arunan, E. Bachhawat A K Balakrishnan, V. Chattopadhyay, Nitin Dhar, Deepak Mukunda, N. Radhakrishnan T. P. Rangarajan, Govindan Saidapur, S.K. Sankaran, P. Satheesh, S.K. Sebastian, K. L. Sengupta, Pulak Subramaniam. Annapurni

Sub: Lecture Workshop on "Mathematics" at Dayananda Science College, Latur during II-I3 January 2019.

Dear Dr Ladda,

This has reference to the letter forwarding a proposal and budget for organizing a three-day Lecture Workshop at Dayananda Science College, Latur. The Joint Science Education Panel of the three Academies will be happy to sponsor and support the Lecture Workshop, We note that Prof. Sudhir R. Gorpade (IIT, Bombay, Powai) will be the workshop Convener and that you will be the Workshop Co-ordinator.

- (a) Your budget of Rs. 1,81,500/- excluding travel expenses. (Resource Persons travel expenses (i) Il tier A/C train fare for persons below the age of 60 (ii) air travel by Air India only for Resource Persons over the age of 60) for 150 participants has been approved by the Science Education Panel. As per the guidelines, the ideal number of participants in a Lecture Workshop should be between 100 and 125 and in any case should not exceed 150, to maximize interaction between participants and resource persons. Please note that you have to adhere to our guidelines and the approved amount is strictly following the budget heads in the guideline.
- (b) Please note that only the names of Convener and Coordinator of the Workshop should be included in brochure/invitation etc. Names of members of the management, organizing committees, patrons etc should be strictly avoided.

(c) Please ensure that the expenditure on individual items does not exceed the sanctioned BUDGET HEAD. If the actual expenditure exceeds the sanctioned budget, THE HOST INSTITUTION SHOULD TAKE CARE OF THE DIFFERENCE.

(d) Lecture Workshops are sponsored and supported by the three National Science Academies – IASc, INSA and NASI. The names of INDIAN ACADEMY OF SCIENCES (BENGALURU), INDIAN NATIONAL SCIENCE ACADEMY (NEW DELHI) and THE NATIONAL ACADEMY OF SCIENCES, INDIA (ALLAHABAD) should therefore be mentioned in all publicity material such as programme sheet, invitation cards, etc.

(e) It may be noted that no formal certificates should be issued to participants. A letter of attendance signed by Coordinator may be issued to those who need it.

- (f) The Workshop should be called Science Academies' Lecture Workshop in "Mathematics".
- (g) You should send us three copies of the printed programme cards once it is printed.
- (h) We urge you to open a new bank account in the name of the lecture workshop or in the name of the principal and provide full details of the account:
 - I. Account No;
 - 2. Name of the Account Holder;
 - 3. Name of the Bank;
 - 4. Name of the Branch;

Indian National Science Academy Chattaraj, P. K. Chaudhuri, Probal Ghosh, Amit Goswami, J.N.

The National Academy of Sciences, India Dimri, V.P. Khurana, Paramjit-Misra, Gadadhar Mittal, J.P.

Contact Address Ravikumar, C.S.

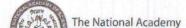
Coordinator
Science Education
Programme
Indian Academy of
Sciences
P.B. No. 8005
C.V. Raman Avenue
Sadashivanagar P.O.
Bengaluru 560 080

Telephone: 91-80-2266 1210 91-80-2266 1207 Fax: 91-80-2361 6094

India







5. IFS code for non-SBI accounts.

Alternatively, you can provide us the existing college bank account number to which we can transfer the amount.

The audited expenditure statement/utilization certificate duly signed by competent authority (CA or Financial Controller) to be sent along with the report, once the Course is over. This is required for the audit compliance. The format will be sent to you separately.

You can go ahead with organizing the Workshop in consultation with Prof. Sudhir R. Gorpade.

With regards,

Yours sincerely,

Coordinator

Science Education Programme

Dayanand Science College, Latur

Format for Sending Statement of Expenditure for 3 Days Lecture Workshop 3 Days Lecture Workshop In Mathematics for M.Sc. I and II year students

Dates-11th- 13th January, 2019

Total participants approved by IAS:- 150 No. actually participated - 150

(Students: 150; Resource Persons: 5; Supporting Staff: 4)

SI. No.	Budget head / amount sanctioned (Rs)	Bill No. &	Particulars (name of payee / item)	Amount spen
1	Publicity: Rs	1094	a. Kirti Offset Printers, Latur	550.0
	Banner, circular, registration	02.01.2019	for Banner 10'x5' - 1	
٠	forms, programme cards	1085	b. Sayali Graphics and Printers, Latur for	2000.0
	invitation cards, letter of	08.01.19	Letter of Attendance - 150, Testimonial - 10,	
	attendance, etc		Invitation Card -60 & Invitation Pocket - 60 and	
			Broucher - 35	2200.0
		1072	c. Sayali Graphics and Printers, Latur for Math Broucher with Pocket Desgin - 100	2200.00
		21.12.2018		550.00
		1067 07.01.2019	d. Kirti Offset Printers, Latur for Disgine and Print	
		23	e. Gajanand Gereral Stores, Latur, For Marker	500.00
		10/01/2019	Pen 20 x 25	(2-)
		10.01.2017	Total	5800.00
2	Registration & stationery:	615	a. M/s Latur Genral Stores, Latur for	9600.00
_	Rs	21/12/2018	Regu. Long Book - 160, Ball Pen - 160,	
	(Pad, pen, pencil, photostat	1018	b. Latur General Stoers, Latur for File	2700.00
	copies etc)	04/01/2019	c. Verma Xerox, Latur for Time-Table Xerox 160	2880.00
		28/01/2019	x 2, Feedback forms 1650 x 2 x 3, Notes Xerox	2000100
		20/01/2019	Copies 160 x 5 x 2	
			Total	15180.00
3	Food: Rs		a. Jay Jagdish Caters, Latur for	96000.00
	Breakfast, lunch, tea/coffee	14.01.2019	11-13 Jan.2019 Breakfast & Lunch 160 students	
	biscuits		and supporting Staff 160x3x200 = 96000	
			Total	96000.00
4	a. Honorarium for resource	13.01.2019	a. Dr. Nitin Nitsure	15000.00
	persons (at Rs. 2000/- per lecture)	13.01.2019	b. Dr. Sudhir R. Ghorpade	15000.00
	b. Honorarium for	13.01.2019	a. Dr. Sudhir R. Ghorpade	2500.00
	convener/co-ordinator (Rs 2500/ Rs 2000)	14.01.2019	b. Shri, R. H. Ladda	2000.00
	c. Honorarium for supporting	14.01.2019	a. Dr. S. S. Bellale	500.00
	staff (not more than 2 or 3	14.01.2019	b. Shri. V. A. Naikwade	500.00
	persons and at most Rs	14.01.2019	c. Shri. Tukaram Hake	500.00
	2,000/- total)	14.01.2019	d. Shri. Amol Kshirsagar	500.00
			Total	36500.00
5	Boarding/lodging of resource	3571	a. Dr. Sudhir R. Ghorpade, Arrival Date 11 Jan.	
	persons	13.01.2019	2019 and Departure Date - 13.01.2019 Room	6067.00
			Tariff - 1600 Room Type - AC	
		3570	b. Dr. Nitin Nitsure, Arrival Date 11 Jan. 2019	5995.00
		13.01.2019	and Departure Date - 13.01.2019 Room Tariff - 1600 Room Type - AC	
				12062.00
	1	O Star	Total	14004.00

persons	13.01.2019	erate were kalaup 1.13 non. 2000 Auguste foremand operations too 3	50,100mm41m20/0
	**************************************	a. Dr. Sudhir R. Ghorpade Mumbai to Latur and Latur to Mumbai	3071.00
and the state of t	13.01 2019	b. Dr. Nitin Nitsure for Mumabi to Latur and Latur to Mumbai	2229.00
to the state of th		c. Dr. Jugal Verma CSTM to Latur and Latur to CSTM Cancellation Tickets	480.00
a. Local transport	Company of the Compan	Total	5771.00
b. Miscellaneous	No. of the Contraction of the Co	a. Ganesh Taxi Travels MH-24-AF-212	4500,00
Photographs, postage, batteries etc.	755 11.01.2019	b. Omsai Pushpahar Stall, Dayanand Gate, Barshi Road, Latur, Bukke - 6 and Har - 1	340.00
	1198 14.01.2019	c. Sapana Digital Photo Studio and Video Shooting, Latur Photography and Album - 100	2000.00
	25/12/2018	d. Hake Tukaram, for Postage	400.00
	26537 09/01/2019	e. Uday Atomotive Services, Latur, for Petrol	40.00
	646 13/01/2019	f. S. F. Flower Stall, Latur for Bukke -3	290,00
	3798 04/01/2019	h. Yogeshwari Bag, Latur 3 x 250 For Resoucre Person	750.00
	666 28/01/2019	g. Audit Fees	2060.00
		Total	10320.00
		Total:	181633.00

Project Cost Amount 181500.00 1) Funds received 136125.00 181633.00 2) Expenditure Amount 133.00 3) College Share 45375.00 6: Primbured Amount (1.2) "

5)

Amount to be refunded/ reimbursed (whichever is appropriate): Rs. 45375.00

(Rs. Fourty Five thousand Three hundred Seventy Five only)

Coordinator

Dr. J. S. Dargad

Principal Principal

Onyanand Science College LA. UR - 413 631

Signature of Competent financial/ audit authority

(with scal) Date











Coordinator's Report

Science Academic Mathematics Workshop 11th to 13th Jan. 2019

The Broucher were printed and were posted to different Colleges and Universities in Maharashtra for publicity. Accordingly 180 Registration forms were received. On 11th Jan. 2019, 153 students have registered their names. File, Register, Pen and Time-Table etc. were given to these registered participants.

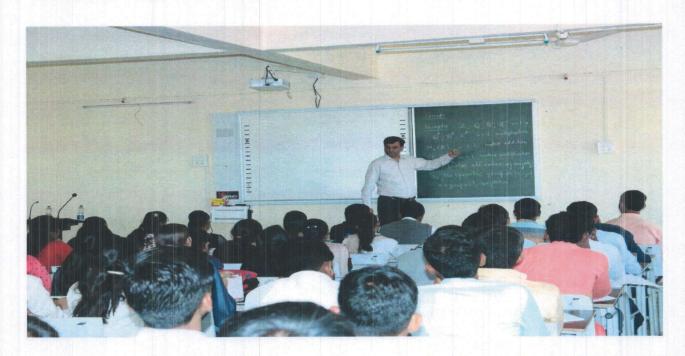
There are 50 students from Rajarshi Shahu College, Latur, 10 Students from Mahatma Basweshwar College, Latur, 89 Students from Dayanand Science College, Latur, 4 students from Yogeshwari College, Ambajogai and 16 students from S.R.T.M. University and other colleges from Nanded list of students from different colleges is enclosed.



Three Rsource Persons were invited. At the 11th hour Dr. Jugal Verma has refused to come. Hence Dr. Sudhir R. Ghorpade and Dr. Nitin Nitsure have covered all the Topics

1) Algebra, Linear Algebra 2) Mechanics, 3) Number Theory and 4) Real Analysis as per Time – Table. The abstract of their topics covered are enclosed.

As per new suggestions we have obtained the feedback forms on the topics taught of the participants are also enclosed. Students of M.Sc. Part I, Part II have participated and have shown active part by interacting with the resource persons by asking different questions. Few problems were also solved.





Hard copies of the photographs are also enclosed while Teaching the Resource Persons in the class and such other few photographs. Notes given by resource persons on certain topics are Xeroxed and circulated to all students.

In a valedictory function 5 students have expressed their views about the Three Days Workshop. Attendance letters were issued to all the students Dr. Sudhir Ghorpade and Dr. Nitin Nitsure have expressed their views about the Workshop. Principal Dr. J. S. Dargad has mentioned about the Refresher Courses and the Workshops, Inspire Camps etc during this Academic Year 2018-19 and how there were beneficial to the staff and students. Dr. S. S. Bellale Head Dept. of Maths and Vice-Principal were also present. At last I must thank to the coordinator. Ravikumar and Geetha madam for providing the funds and other necessary information on behalf of Indian Academy of Sciences Bangaluru.



PRINCIPAL
Dayanand Science College
LATUR

R.H.Ladda Coordinator

Name and Addresses of Mentors

1) Name : Prof. Dr. Sudhir R. Ghorpade

Qualification : Ph.D.

Address : IIT Powai, Mumbai 400076.

Residential Address: B-270 Nilgiri, IIT Powai, Mumbai 400076.

Mobile No. : 9892768162

E-mail Address : srg@math.iitb.ac.in



2) Name : Prof. Dr. Nitin Nitsure

Qualification : Ph.D.

Address : TIFR, Mumbai - 400005.

Residential Address: TIFR, Mumbai - 400005.

Mobile No. : 9869020788

E-mail Address : nitsure@math.tifr.res.in



Glimpses of Science Academic Mathematics Workshop - 2019

at Dayanand Science College, Latur

Jan. 11-13, 2019

















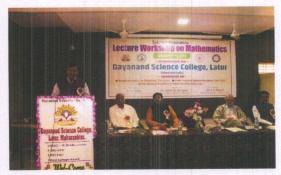




Glimpses of Science Academic Mathematics Workshop - 2019

at Dayanand Science College, Latur

Jan. 11-13, 2019





















Glimpses of Science Academic Mathematics Workshop - 2019

at Dayanand Science College, Latur

Jan. 11-13, 2019































Dayanand Science College, Latur. (M.S.)

Science Academies Lecture Workshop On Mathematics (11th to 13th January, 2019)

Time-Table

Day & Date	8.00 - 09.30	Period - I	Perlod - II	12 to	Period - III	1.30 to	Period - IV	3.45 to	Period - V	5.30 - 6.00
Time		9.30 - 10.45	10.45 - 12	12.15	12.15 - 1.30	2.30	2.30 - 3.45	4.14	4.15 - 5.30	5.30 - 6.00
Friday		Prof. Dr. Nitin Nitsure	Prof. Dr. Sudhir Ghorpade		Prof. Dr. Nitin Nitsure		Prof. Dr. Sudhir Ghorpade	***************************************	Prof. Dr. Nitin Nitsure	
11/01/2019	Registration & Inaugural		Department of Mathematics, IIT Bombay, Powal, Mumbai		School of Mathematics, TIFR, Colaba, Mumbai		Dept. of Mathematics, IIT, Powai, Mumbai		School of Mathematics, TIFR, Colaba, Mumbai	
	Function	basic notions, systems of linear equations	Linear.Algebra: Finite dimensional vector spaces, bases, matrices and linear transformations		Mechanics: Generalised coordinates; Hamilton's canonical equations	72 - 4 * 2	Algebra: Review of basic notions from Group Theory		Tutorial Problem Solving	
12/01/2015		Prof. Dr. Sudhir Ghorpade Department of Mathematics, IIT Bombay, Powal, Mumbai	Prof. Dr. Nitin Nitsure School of Mathematics, TIFR, Colaba, Mumbai	Val	Prof. Dr. Sudhir Ghorpade Dept. of Mathematics, IIT Bombay, Powai, Mumbai	Break	Prof. Dr. Nitin Nitsure School of Mathematics, TIFR, Colaba, Mumbai		Prof. Dr. Sudhir Ghorpade Dept. of Mathematics, IIT Bombay, Powai,	
		Algebra: Group actions, Sylow's Theorems. Applications	Mechanics: Variational Principles: Hamilton's principles and principles of least action	Inter	Number Theory: Divisibility, Linear Diophantine equations	Lunch]	Mechanics: Three- dimensional motion of a rigid body	Tea Bı	Mumbai Tutorial Problem Solving	
Sunday		Prof. Dr. Nitin Nitsure	Prof. Dr.Sudhir Ghorpade		Prof. Dr. Nitin Nitsure		Prof. Dr. Sudhir Ghorpade		Prof. Dr. Nitin Nitsure and Prof. Dr. Sudhir Ghorpade	Valedicator Function
3/01/2019		School of Mathematics, TIFR, Colaba, Mumbai	Dept. of Mathematics, IIT Bombay, Powai, Mumbai		School of Mathematics, TIFR, Colaba, Mumbai		Department of Mathematics, IIT Bombay, Powai, Mumbai		TIFR, Mumbai, and IIT Bombay	
		Real Analysis: Differentiability, MVT and Taylor's Theorem	Number Theory: Arithmetical functions. Mobius inversion	Andreas and the state of the st	Real Analysis: Quick outline of Riemann integration		Number Theory: Quadratic residues, Law of quadratic reciprocity		Tutorial Problem Solving	no experience de la constante

Principal

Co-Ordinator