

BHS HIGHER EDUCATION SOCIETY **VIJAYA COLLEGE** ROAD, BASAVANAGUDI, BANGALORE – 560

R V ROAD, BASAVANAGUDI, BANGALORE – 560 004 (ACCREDITED BY NAAC WITH 'B'GRADE & RECOGNIZED BY UGC AS CPE)

EMAIL ID : principal@vijayacollege.ac.in

#### Workshops/ Seminars conducted Academic year 2016-17





BHS HIGHER EDUCATION SOCIETY VIJAYA COLLEGE

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## About Science Academies

The Indian Academy of Sciences was founded by Professor C. V. Raman on 27 April 1934. It aims to promote the advancement of science in both pure and applied branches through the support of original research and the dissemination of scientific knowledge to the community. The three science academies of national importance – Indian Academy of Sciences, Bangalore; Indian National Science Academy (INSA), New Delhi; and The National Academy of Sciences, India (NASI), Allahabad has set up Science Education Panelto promote the progress and upholding the cause of science. One of the activities of the panel is to conduct Lecture workshops to provide means of exchange of scientific knowledge amongst scientists and to nurture scientific talent amongst the students and teachers.

## About the College

Vijaya College was established in the pre – independence era of 1945 by BHS Higher Education Society with an objective of social inclusion and access to education for underprivileged classes. The college has been conferred with the status"College with Potential for Excellence (CPE)"by UGC in 2016. The college student strength is about 2800 and the faculty strength is nearly 140. The college has been conducting several outreach activities for the benefit of teaching and student communities. The department of physics stands dedicated to its basic principles in imparting knowledge and preparing the students towards achieving academic excellence.

### About the Workshop

Nanoscience and nanotechnology has revolutionized the entire scientific and technical fields having its reach far and wide in diverse fields including that of pharmaceutical and medical industries. A thorough understanding of its fundamentals is the essence of every science student graduating from any university. With a view to impart the basics and develop research interests in this field, the Department of Physics, Vijaya College pioneered to hold one such workshop. The Science academies' have been providing the financial and professional support in this venture. The lecture workshop titled "Recent Trends in Nano Technology and Material Science" is planned to host on 22nd and 23rd March 2017. The lecture sessions will be delivered by well acclaimed and eminent professors drawn from Indian Institute of Science, Bangalore and Jawaharlal Nehru Center for Advanced Scientific Research, Bangalore. The lecture sessions are expected to motivate the students to pursue higher education and research in pure science.



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VIJAYA COLLEGE R V ROAD, BASAVANAGUDI, BANGALORE – 560 004 (ACCREDITED BY NAAC WITH 'B'GRADE & **RECOGNIZED BY UGC AS CPE)** 

Speakers at	the Lec	ture Workshop Session		
Speaker		Topic		
<b>Prof. S.Sampath</b> Inorganic and Physical Chemin Indian Institute of Science, Ba	stry Unit ngalore	1.Self – Assembled Monolayers 2.Nanomaterials for Batteries		
Prof. S.Vasudevan Solid-State Structural Chemistry Unit Indian Institute of Science, Bangalore		Functional layered compounds		
<b>Prof. A.M.Umarji</b> Chairman, Materials Research Indian Institute of Science, Ba	Centre, ngalore	Thermoelectric Materials		
Prof.A.Sundareshan Chemistry and Physics of Mat Jawaharlal Nehru Centre for A Scientific Research	erials Unit, dvanced	Superconductivity		
<b>Prof. G.U.Kulkarni</b> Chemistry and Physics of Mat Jawaharlal Nehru Centre for A Scientific Research, Bangalore	dvanced	Graphene – The wonder Material		
<b>Prof. S.Natarajan</b> Solid State Structural Chemist Indian Institute of Science, Ba		New battery cathode Materials		
li	nportant	Information		
ecture workshop ast date for enrolment registration and reporting me for the workshop	: 4 pm, 1 : 9 am oi	nd 23rd March 2017 7th March 2017 n 22nd March 2017 n to 11am on 22nd March 2017		
naugural programme aledictory programme		n to 5.15 pm on 23rd March 2017		



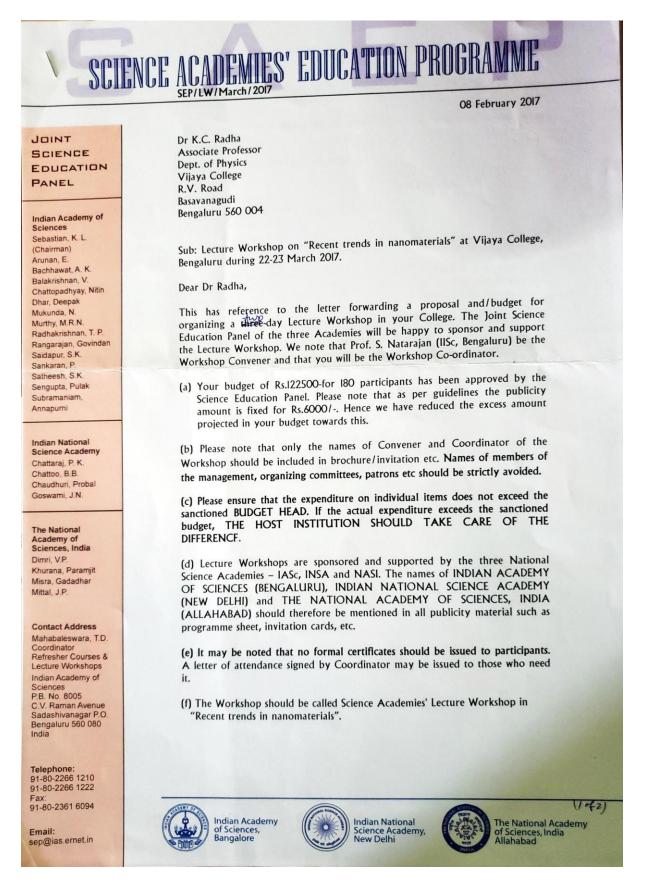
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1	Lecture workshi	op schedule	
Date	Time	Programme Title	
	9.30 am - 11.00 am	Inaugural function	
	11.00 am – 11.15 am	Coffee/Tea	
	11.15 am – 12.15pm	Functional layered compounds Prof. S.Vasudevan	
22/03/2017	12.15 pm – 01.15 pm	Graphene – The wonder Materia Prof. G.U.Kulkarni	
	1.15 pm – 2.15 pm	Lunch	
	2.15 pm – 3.15 pm	Self – Assembled Monolayers Prof. S.Sampath	
	3.15 pm – 3.30 pm	Coffee/Tea break	
	3.30 pm – 4.30 pm	Nanomaterials for Batteries Prof. S.Sampath	
	10.00 am - 11.00 am	Thermoelectric Materials – 1 Prof. A.M.Umarji	
	11.00 am – 11.15 am	Coffee/Tea	
23/03/2017	11.15 am – 12.15 pm	Superconductivity – 1 Prof. A.Sundareshan	
	12.15 noon – 01.15 pm	New battery cathode Materials <b>Prof. S.Natarajan</b>	
	1.30 pm – 2.15 pm	Lunch	
	2.15 pm – 3.15 pm	Superconductivity – 2 Prof. A.Sundareshan	
	3.15 pm – 3.30 pm	Coffee/Tea	
	3.30 pm – 4.30 pm	Thermoelectric Materials – 2 Prof. A.M.Umarji	
	4.30 pm -4.45 pm	Feedback session	
	4.45 pm – 5.15 pm	Valedictory programme	



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(g) You should send us three copies of the printed programme cards once it is printed.

(h) We can advance money by electronic transfer on a specific request from you.

We will need the following bank details:

- I. Account No;
- 2. Name of the Account Holder;
- 3. Name of the Bank;
- 4. Name of the Branch;
- 5. IFS code for non-SBI accounts.

(i) 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.

You can go ahead with organizing the Workshop in consultation with Prof. S. Natarajan and keep in touch with us about the progress.

With regards,

Yours sincerely,

8/2/17

T. D. Mahabaleswara Coordinator (Lecture Workshop/Refresher Course) Science Education Panel



R V ROAD, BASAVANAGUDI, BANGALORE – 560 004 (ACCREDITED BY NAAC WITH 'B'GRADE & RECOGNIZED BY UGC AS CPE)

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eria Name of the Student )) Praven Kumph S 2) Bithori Nourean 3 Manilarta G. 4 Ramya Kv 5: Manfula S 6: Asha N 7: M. C. Ginipriya 8: Shachank H R 9. Surfama B 10. Backey Imm 11. Manjesha 12. Marthill Cumpar C.V	College name PJS For College 	Contact Number 9986 505 03 99730741553 56041043 9743254682 920695265 990167850 8155312808 9738266574 8158376825 8123226757 3901188521	Signature P. Lus P. how Rannya & P. Mangula Asha Gimpinya Banya China



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REGISTRATION FORM							
seria Name of the Student	College name	Contact Number	Signature				
Shima U.S	Vijava College(PG)	8095850623					
Shrevas K	Vijava College(PG)	7899678123					
Shwetha N.S	Vijava College(PG)	96866666347					
4 Thriven H.N	Vijava College(PG)	8892920505	Throww				
Thrimurthy.G	Vijava College(PG)	7760080940					
6 Rakshitha B.K	Vijava College(PG)	9731578779	91				
7 Sandhya D.G	Vijava College(PG)		Sordings Data				
8 shilpa.G	Vijava College(PG)	9591006159	Salper 1				
A Chithra.A.	Vijava College(PG)	8971881288	chitting >				
10 Deepa	Vijava College(PG)	9343269549	Deepa. R				
A1, Monisha	Vijava College(PG)	9036766653					
T Asha	Vijava College(PG)	7022871499	the nik.				
As chithra chaithga	Vijaya College(PG)	9482124702	chilling A chaittin				
14 Manjula.K.M	Vijaya College	8884740564	mund				
15 Pallavi.P	Vijaya College	9740542381	Jallavi P.				
16 Sameera.N	Vijaya College	9632787224	Sameera · N				
17 Shravan	Vijaya College	9844453605	Jan .				
18 Harsha	Vijaya College	9738905019	(Admit .				
19 Kiran.B	Vijaya College	9741628750	Kirah B				
20 Hemanth Kumar.S	Vijaya College	9738011842	Homorth Kermars				
21 Vishal Gowda.N	Vijaya College	8310506102					
22 Yeshwanth R	Vijaya College	8139946585					
23 Somashekar.K.H	Vijaya College	9844306969	Somashekark.H.				
24 Santhosha.P	Vijaya College	9964288232					
25 Kishore.H.K	Vijaya College	8152946643	Kuthe H.K.				
26 Tejash.S.K	Vijaya College	9738331530					
27 Manjunath.K.S	Vijava College	9972490130					



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64 Sandeep K	Oxford college		9066371991	So sul- HA	
65 Sowmyashree H M	Oxford college	20100112	900051111	llidyadur.	
66 Vidhyashree P	Oxford college	06253462			
• 67 Vidyashree K L	BMSCW	9945365712		AchuantaH	
68. Ashwini H.	BMSCW	93 39937228		Durya B. Ma	
69 Divya B. M	BMSCH	963229720	2	Nacha	
70 Nadya.V	BHJCW	F204 710597		Narch.191	
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72. Varalakshmi. R.	BMSCW	9611160991			
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KE	GISTRATION	FORM		
seria Name of the Faculty	College name	Contact Number	Signature	
1 Chinnappa Reddy.B	Govt 1st Grade College			
2 T.C.Gopinath)	Vijaya college, Jayanagar	9448337540		
3 DR.N.Shanthi	Jain University	9845839991	Sheriti -	
Mylarappa.M	SJRC	9742413751		
	SJRC	9900643998	ague	
6 DR.Venkateshappa	GFGC,Vijayanagar	9448241622		
7 C.A.R Maria Sahayaraj	St.Joseph's college	9886840480		
8 Dr.M.Y. Anand	Vijaya college(PG)	9008294880	1	
Dr.R.Rajarama Krishna	National College, jayanagar	9036941887	110.000	
10 Mr.Abhiram.J	National College, jayanagar	9844654414	w.x	
(11 GuruBasamma)	MLA College	9886558853		
-12 Anupana	MLA College	9739084454	Anupape	
-13-Akshay.S	MLA College	9620775017	Que . s.	
14 K. Pramod Kumar	BMS college for women	9739443156	KRAT	
TS DE ALGAGTAIN BS	Vijaya college.	8970933303	8	
15 Dr. Nagaraja B S 16 Dr. Vinutia N (PGPI	upis) Vijaya College	9481384285	Iluis	
17 M.SAVITHA	ST. ANNE'S DEGREE COLLEG	E FOR WOMEN, 9986320438	H.S.T.	
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20 GAYATHRIGM	HKES(SVP)Collegn	9902833069	50	
21 NUSRATH JABGEN		luge 98456875	33 Mi	
22 CHITRA JAGADISH	GREE DIN	98459047		
3 JYOTHI T.P.	Govt . College for Boys, ch	Wamani. 98440715	85 June	
TH SRINIVASAS	Govt College for Boys, ch Govt First Grade co a Indian dendempt	1630 A259983	ssy Skir	
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REC	GISTRATION	N FORM		
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seria Name of the Student	College Name	Contact Number	Signature	
-TG.R Siri	Jain university	7259500988	Geore	
	Jain university	9059684886	Y. J. Terry	
- 3 Divya H.S	Jain university	7676749199	Dima H-8	
-A-Shashikala Hosamani	Jain university	9206278871	state	
5 Sushma B.V	Jain university	8904593324	Charles 1	
G.N Malashree	Jain university	9611078509	aroung_	
7 Dennil D'Souza	Jain university	9740529257	Wa	
8 M.Pradeep	Jain university	7760298686	N. Curdet	
9 Akshatha Kulgeri	Jain university	9448541305	Alaber. T.	
10 Shephine M Shaji	Jain university()	9738065137	P2T a	
11 Zaheer Abbas.D	Vijaya College, Jayanagar	8892066598	(Zab)-D.	
- 12 Darshan Raj.G	Vijaya College, Jayanagar	7259260765	Plan 1	
13 Renjan Dehel Morica. N.	Vijaya College, Jayanagar	9436021629	Travio N.	
14 Ranjan Dahal	Vijaya College, Jayanagar	8546919769	Ranjan Dahaf.	
15 Sanjay.L.C	Vijaya College, Jayanagar	9008618701	D	
16 Keerthana.K	Vijaya College, Jayanagar	968618701	allathana K.	
17 Ramya.K	Vijaya College, Jayanagar	7899073881		
18 Pavithra-e/Bindu.B	Vijaya College, Jayanagar	7338115791/9513172477	Harithand C. Bindus	
19 Prapulya.N	Vijaya College, Jayanagar	9901254291	Phapulya: N'	
20 Sukrithi.S	Vijaya College, Jayanagar	9448722313	det ils	
21 Sandhya.K	Vijaya College, Jayanagar	9916055297	Surolligent	
22 Chaithra	Vijaya College, Jayanagar	9945345167	Chaithra R	
23 Harsha.K.V	Vijaya College, Jayanagar			
24 BalaKrishna Murthy.G	Govt.1st Grade college		Balia G.	
25 Nagendrachari.KN	Govt.1st Grade college		Nagendrachanit N	
26 Sudarshan.K	Govt.1st Grade college		3 follagths	
27 Madhu Kumar.R	Govt.1st Grade college		madheremanik	



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REGI	STRATION FC	ORM	
seria Name of the Student	College name	Contact Number	Signature
Granesh Jrumar D	Vijaya	9448800427	Connect Ears
Bharya B Vidya M	Vijaya	9795538544 9066561913	Bhavyo B
Vidua M	Vijaya	9066561913	lide
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Payan Shyvareddy, B		8892307717	Rejuta.R
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Magla, T.H	Ň	9964157173	Haab
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Bharath Gouda	-11-	8951175764	Alacad V.
Ananda H.S	- 11 -	9902294911	Anorda 1+-5
Nieanjan H.P.	-11-	8050813620	MIP. Nilafin
Sowaya.N	vijaya College	7026423562	Sownya. N
Ankit Dhiman	vigaga conege	8940062769	Gloman -
Gagana s	Vijaya college	8892446777	69
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62 Keerthi Priya	Vijaya College	9900745706	Kegther Ding - P.
63 Doddaraju	Vijaya College	8892051017	Ind Jarohut
64 Narahari Balaji	Vijaya College	8660737488	S.NarahariBalari
65 Sandeep M	Vijava College	9742894478	kdenolard .
66 Veshamth	Vijaya College		Valuet
67 varun	Vijaya College	8951524859	the of
68 Abhivardhan	Vijaya College	10801 00-5	
69 Pramodhini A V	Vijaya College	9494417578	Pramodini. A.Y
70 Shwetha B	Vijaya College	7760317020	Shwella.B
71 Vidyashree H S	Vijaya College	9066030930	Vidyashree.P
72 Sumithra S Babu	Vijaya College	885835	Sumithras. Baby
73 VaraLakshmi.H.S	Vijaya College	4902958188	Vava b kshmi
74 Manasa S	Vijaya College	9739882879	Manasa
75 Sindhu R	Vijaya College	9066684563	KI WOR
76 Sai Pooja	Vijaya College	9538817045	Safet .
77 Arundhanthi.G	Vijaya College	9611601509	@ Dist:
78 Prashanth Kumar N	Vijava College	8553535645	Aht.
79 Vinay S	Vijaya College	8310196525	hnorst .
80 Santhosh P	Vijaya College	9964288232	Sord P
81 Girish E	Vijaya College	TIONESTOR	
82 Likith Kumar N S	Vijaya College	9164445614	Likith Kurinds N.S
83 Somashekar	Vijaya College	110111 21	
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87 Surya	Vijaya College	9844934442	in the second se
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89 Anand C	Vijaya College	9980231984	dund L.
90 Darshan K V	Vijaya College	9535696227	Darshanzw.
91 Girish Sharma	Vijaya College		Girish Charing .
92 Sri Vidya N S	Vijaya College	9206291322	
93 Harshitha J	Vijaya College	9206291322	Harshithat
94 Vindhya	Vijaya College		
95 Rakshitha	Vijaya College		



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3	DR.N.Shanthi	Jain University	9845839991	- th
4	Mylarappa.M	SJRC	9742413751	
5	Usha M	SJRC SJRC	9900643998	maha
6	DR.Venkateshappa	GFGC,Vijayanagar	9448241622	
7	C.A.R Maria Sahayaraj	St.Joseph's college	9886840480	
• 8	Dr.M.Y. Anand	Vijaya college(PG)	9008294880-	sty Jugerd H. Ty Juand to
1.9	Dr.R.Rajarama Krishna	National College, jayanagar	9036941887	WI draw white what sight
10	Mr.Abhiram.J	National College, jayanagar	9844654414	7
11	GuruBasamma	MLA College	9886558853	
12	Anupana	MLA College	9739084454	Any pane Any pare 11
13	Akshay.S	MLA College	9620775017	All 25/3/17
14	K Pramod Kumar	BMSCW	9739443156	KPattor KP at E22 3/17 23/3/1
• 15	Dr Nagaraja B S	Vijaya College	112000000	213117-11- 4 241911+ 2001
• 16	Dr Vinutha N	Vijaya College		
17	M Savitha	TSt Anne's College		
18	Sindhu S	Halasuru Degree College		
19	Shanthala V S	Oxford College		200
20	Gayathri G M	HKES(SVP) College		2213/17 2313/17
21	Nusrath Jabeen	Dayanada Sagar College		231-1
22	Chaithra Jagadish	GRCC		RI R .
		Govt college for Boys		TANK Trankt 12
23	Jyothi T P	Chintamani		Jyohum
24	Dr. Banita Behera	Hennur Pris	72047325 Quee college.	598 OUD 53 TOO 117



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28 Shashi Kumar 🖌 <	Govt.1st Grade college		Sharphi keemaa. K.S.
29 Harinathal.V	Govt.1st Grade college		Flas in a tha J.V
30 Malli Reddy.G	Govt.1st Grade college		May inacha st
31 Pruthvi-Raj.S	Govt.1st Grade college		Butthe ilar S
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-33 Albert Francis R	GFGC, Vijayanagara	9448241622	duit 1 m
34 Vidyarani B.V	GFGC,Vijayanagara	9986916411	Victor
35 Satyanarayana	GFGC,Vijayanagara	7338012796	
36 Vinay	GFGC,Vijayanagara	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
37 Kumara S.M	GFGC, Vijayanagara	9742757810	(Hund)
38 Chinmayee.S	SJRC	9686850910	Chimmanice S
39 Sindhuja S.H	SJRC	9663877256	Sendente S.H.
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44 Harikumar SHASTRY, B.	St.Joseph's College	7406319311	bluliout
45 Nandan SHEERNALY	St.Joseph's College	7411152462	AR
46 Ananth Prasad	St.Joseph's College	8553746949	20.
47 Sushmitha G Dixith	St.Joseph's College	9538034885	Surtiska.
48 Vidya Bharathi.S	St.Joseph's College	9901354265	Miles
49 Bhavana	St.Joseph's College	9538628227	
-50 Tejaswini S.Rao	St.Joseph's College	8792420499	fin he
51 Altost Aakash Ghosh	St.Joseph's College	8792356897	Sent.
52 Abirami.K	Oxford college	9901813752	distant
53 Anamika Biswas	Oxford college	7338438818	Anomitig
54 Arpitha.V	Oxford college		
55 Deepa B Koppada	Oxford college	8971396963	Deem B.K
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61 Priyanka Chakraborty	Oxford college		Trance Price 4



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28 Anil kumar .N.V	Vijaya College	7338304099	and knin.v
29 Sahana.C.S	Vijaya College	9591270425	Schana. C.S
30 Surabhi.R.K	Vijava College	9480362263	Senana. C.S
31 Supriya.K	Vijava College	7406291868	
32 Pallavi.R	Vijaya College	8197946492	Rallavi P
33 Sushmitha	Vijava College	9148231608	Such
34 Sandhya.N	Vijaya College	8147035104	
35 Jeevitha.P	Vijava College		P. Jelvitha
36 Sudha.N	Vijaya College	9066095520	Subha N
37 Thanushree	Vijaya College	9164303491	thampher.
38 Geetha.A.C	Vijaya College	9632113579	Getto A.C.
39 Chetan Surya.S	Vijaya College	1050115515	diate
40 Mohit	Vijaya College		
41 Nithin.H.M	Vijaya College	9845837685	Im notin
42 Saniya Kousar	Vijaya College	\$ 7892737343	atta hourge.
43 Bhavya	Vijaya College	9036912515	Bhaun B.
44 Akash Purushan	Vijaya College	9916621821	fin a this
45 Suhas P.K	Vijaya College	9901394794	Suhar PK
46 Madhu	Vijaya College		. Mardha
47 Sushma.S	Vijaya College	9916618222	and .
48 Anil kumar	Vijaya College	8970166901	Anil. Kin
49 Navya	Vijaya College	9742523302	Marya. M.K .
50 Darshan.A.R	Vijaya College	8139945868	R R
51 Krishnan.V.P	Vijaya College		
52 Manoj	Vijaya College	8123591628	Mary
53 Monika.R	Vijaya College		0
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57 Rashmi	Vijaya College	9986398320	than N'
58 Komala	Vijaya College	9620711685	Komala . B.S
59 Kavya.M	Vijaya College	8147060966	Re-
60 Kavya.R	Vijaya College	9686866018	Kanger .
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A brief report of the lecture sessions workshop on Recent trends in Nanotechnology and Material science, held at Vijaya College on 22<sup>nd</sup> and 23<sup>rd</sup> March 2017 sponsored by Indian Academy of Sciences.

The lecture workshop was inaugurated on 22<sup>nd</sup> march 2017 at 10.00 am. The keynote address was delivered by Prof. S. Vasudevan , Solid-State Structural Chemistry Unit , Indian Institute of Science, Bangalore and the guests of honour were Prof. S. Natarajan, Solid State Structural Chemistry Unit, Indian Institute of Science, Bangalore and Dr. T D Mahabaleswara Coordinator, Lecture workshop and Refresher course, Science Education panel, Bangalore and the presidential address was given by Dr. Ananth K Atre, Joint Secretary, BHS Higher Education Society.

The first session was delivered by Prof. S.Vasudevan on Functional layered compounds. He started from the basics and developed the subject to the recent research that is taking place in the nano materials.

In the second session Prof. G.U.Kulkarni, Chemistry and Physics of Materials Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore spoke on Graphene – The wonder Material which is a monolayer. He started his talk with a pencil lead as a nanolayer and developed the subject interacting with the students.

The third and fourth sessions were delivered by Prof. S.Sampath, Inorganic and Physical Chemistry Unit, Indian Institute of Science, Bangalore. His first talk was on Self – Assembled Monolayers. He continued the talk of Prof. G. U. Kulkarni and his second talk was on Nanomaterial's for Batteries.

The next day, in the first session, there was a talk on New battery cathode Materials by Prof. S.Natarajan, Solid State Structural Chemistry Unit, Indian Institute of Science, Bangalore. He gave a brief introduction of the function of a battery and later explained how lithium is widely used as the cathode material.

The second session and the third session were delivered by Prof. A Sundareshan, Chemistry and Physics of Materials Unit, Jawaharlal Nehru Centre



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for Advanced Scientific Research on Superconductivity. He explained the basic laws of superconductivity and the applications in detail. He demonstrated the phenomenon of superconductivity and magnetic levitation principles.

Prof. N Chandrabhas, Chairman, Chemistry and Physics of Materials Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore delivered a lecture on Raman Scattering studies on Nano materials. He explained the Raman Effect in a simple way and how it is applicable at the nanoscale.

The last session was delivered by Prof. A.M.Umarji Chairman, Materials Research Centre, Indian Institute of Science, Bangalore on thermoelectric materials. He discussed in detail which are the materials used as thermoelectric materials in the nanoscale.

We had 218 participants (199 students and 19 faculties). All the lectures were very well appreciated by the participants and interaction with the resource persons was very good. All the professors were very patient in clearing the doubts of the students. They invited the participants to their labs in small numbers.

The lecture workshop was a great success. A feedback session was conducted and participants expressed their opinions. Their comments were very positive. The session concluded with the valedictory function. The chief guest of the valedictory function was Prof. A.M.Umarji and the president was Prof.R.V.Prabhakara, Joint Secretary, BHS Higher Education Society.

The general opinion of all the participants was that such workshops must be conducted periodically for the benefit of students and staff.



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