



"Faculty Development Programme in Chemistry for UG Teachers: A Re-orientation to the Restructured CBCS Curriculum" 13th -18th, December 2018

REPORT



Organized by Department of Chemistry, OU @ Lecture Hall-I **Under the guidance of UGC-HRDC** (Academic Staff College) OU

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About the Programme

Reforms in higher education today are oriented in the interest of the learners to make it more viable, flexible and student friendly. Thus, the curricula implemented are learner centric in nature with a vision of creating more skill based, knowledge enhancing and employable youth who emerge as graduates through these curricula. Choice Based Credit System (CKS) was introduced by University Crants Commission, India which offers a learner centric curriculum that provides a platform to the knowledge sedeens the flexibility to hoose the course of Hearin tensor from alls of prescribed core, elective and soft skill courses. The Telangana State Council of Higher Education (TSCHE) in coordination with the various universities of Telangana including. Obsania University has devised a curriculum that best fits into the model curriculum issued by UCC in 2015.

curriculum that best it is in to the model curriculum issued by UGC in 2015. The curriculum and the respective syllabil of various courses under CBCS pattern as recommended by TSCHE are further pruned by Osmania University with emphasis on skill enhancement, core elective and generic elective courses and implemented for the students of under graduation admitted in the year 2016 and onwards. The syllabus pertaining to chemistry was also revised accordingly and is approved in various statutory academic bodies, Osmania University. In this context, the Department of Chemistry has taken an initiative to readdress and re-orient the faculty from various affiliated Colleges of OU and other State Universities through this Saculty Development Programme entitled "A Re-orientation to the Restructured CBCS Curriculum" to be held from 13" – 18" December 2018 at the Dens of Chemistry. OII at the Dept. of Chemistry, OU.

at the Dept of Chemistry, OU. The workshop is intended to cover topics ranging from a key note locture on "CBCS: An overview" to loctures on core topics such as Stereor chemistry, Coordination Chemistry, Quantum Chemistry, etc., and newly introduced skill enhancement topics vize. Materials and their applications, Chemistry of Cosmetics and Food Processing. The generic electives and their applications, Chemistry etc., shall also be addressed. Pepartae sessions will be dedicated exclusively to the practical demonstration of laboratory course experiments such as Qualitative and Spectral Analysis of Organic Compounds, Instrumental Methods of Analysis, The experts and academicians across the state and reputed institutions and miversities are invited to address the sessions along with the senior faculty members of the Department of Chemistry, OU.

Who can attend?

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The programme is aimed as a faculty development programme for the chemistry teachers of all the constituent and affiliated colleges of various universities in Telangam State. It is intended to provide a rorientation and an insight into the restructured curriculum and syllahi of the CBCS UC Courses. The sessions and lectures are thus framed accordingly and the participants shall be provided with the soft copy of the lecture notes of thenewly introduced SEC, GE and DSE courses at the end of the programme.

Department of Chemistry, OU at a glance:

The Department of Chemistry, one of the oldest and biggest departments of Osmania University has a glorious history of 100 years. It was founded in the year 1918 as an undergraduate (B.Sc) teaching institution. From 1928 onwards, the department started

offering M.Sc. in Chemistry along with Chemistry as one of the optional subject at B.Sc. level. Since them, the Department has grown with time by introducing specializations in Inorganic, Organic, Physical Pyrysical organic, Analytica, Pharmaceutical, Pharmaco informatics in addition to the undergraduate B.Sc. teaching programme with combinations: MPC, B2C, BBC, BLZ, Ln 2009, the department was recognized as a nodal centre for M.Sc. Forensic Science, Currently Osmania University has three constitutent collegas, one PG Centre at Mirzapur (Medak District), two more centers at Jogipet and Narasapur, about 200 private and Government affiliated collegas offering M.Sc. Chemistry and 450 degree colleges offering B. Sc courses with Chemistry. Students enrolled in this department are mostly from the rural areas and courses offered are in the core subjects that form the baseline for rural development through extension and research activities.

Registration Details:

UG teachers of various constituent and affiliated colleges of Telangana State Universities should register on or before 28th November 2018. Registration Fee: Rs. 2,500 per head

The fee may be paid by DD in favour of "The Head, Department of Chemistry, Osmania University

The registration fee includes the kit, lecture notes material and working lunch (without accommodation). A maximum of three members from the same college can attend the workshop.

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For corresponde	ence:
Prof P. Leelavathi, Cor	ivener; Contact No. 9440621313
Prof P. Vijay Kumar, Co	-Convener Contact No. 9912770303
Dr G. Vijaya Charan, C	rganizing Secretary Contact No. 9010558545
Dr A. Hari Padmasri, O	rganizing Secretary Contact No. 9441788898
e-mail: fdpchemou2k18	@gmail.com
Organizing Com	mittee of the Seminar
Chief Patron:	Prof C Ramachandram, Vice-Chancellor, Osmania Universit
Patrons :	Prof Ch Gopal Reddy, Registrar, Osmania University
	Prof. Shivaraj, Dean, UGC Affairs, OU
	Prof.Ch.Venkata Ramana Devi, Dean, Faculty of Science, OU
	Prof Pratap Reddy , Principal, University College of Science
	Prof. Ch. Sarala Devi, Head, Department of Chemistry, OU
Director :	Prof. Ch. Abraham Lincoln, Chairperson, BoS, Dept. of Chemistry
Convener :	Prof P Leelavathi, Dept. of Chemistry, OU
Co-Convener :	Prof P Vijay Kumar, Dept. of Chemistry, OU
Organizing Secretaries :	
	Dr A Hari Padmasri, Assist. Professor, Dept. of Chemistry, OU
Organizing Committee :	Faculty, Dept. of Chemistry, UCS, OU



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	OF HIGHER S	university Grants Commission	
Fac	•	Programme in Chemistry for UG Tea	
•		to the Restructured CBCS Curriculum	"
		13 th -18 th , December 2018 Organized by	
	Department	t of Chemistry, OU@ Lecture Hall-I	
	-	of UGC-HRDC (Academic Staff College) OU	
Programme DAY-1:	e Schedule 13 th December 2018		
ession	Title of the Talk	Speaker	Time
	y Development Programm	e: "A Re-orientation to the Restructured CBCS C	
nauguration		Chief Guest: Prof SRamachandram, Vice-Chancellor, OU	9:30 - 10:30 a.m.
		Guest of Honour: Dr Ch Mohan Rao,	
		Former Director CSIR-CCMB	10.00 10.45
		A BREAK	10:30 -10:45 a.m.
ession-I	"CBCS Curriculum: An Overview"	Key note Speaker: Prof B Sathyanarayana, Senior Professor in Inorganic Chemistry &	10:45 - 11:45a.m.
•		President OUTA, OU	
	"Role of Applied		11:45 -12:45 p.m.
•	Research in Enabling Teaching and Learning	Invited Lecture-1: Dr Sankhar Ganesh, Associate Professor &	11.45 12.45 p.m.
	Process"	Head, Department of Biological Sciences,	
,		BITS, Hyderabad	12:45 -1:45 p.m.
	"Importance of	Invited Lecture-2: Prof B K Naidu,	
	Teaching Tools "	Retd. Prof. in Physics, OU	
		CH BREAK	1:45 -2:30 p.m.
ession-II 'arallel	<u>Group-A</u> Participants Physical	<u>Group-BParticipants</u> Organic Chemistry Practicals – Lab	2:30-5:30 p.m.
ession	Chemistry Practicals –	demonstrations & Presentations	
	Lab demonstrations & Presentations	"Analysis of Spectroscopic Data of Organic Compounds"	
	Special Address by	Invited Lecture-3:Prof P Leelavathi,	
	Prof P Veerasomaiah,	Convener of the Programme, Dept. of	
	Senior Professor, Dept. of Chemistry, OU	Chemistry, OU	
		Special Address by Prof M Vijjulatha	
	Sessionsconducted by Dr A HariPadmasri&	Conducted by Prof J Ramchander, Dr NJP	
	Dr P Someshwar	Subhashini& Dr RajuJannapureddy	
		TEA	
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ession			

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A	14 th December 2018			
ession	Title of the Talk	Speaker		Time
AY-2: Facul		1	Re-orientation to the Restructured CBCS C	
ession-III	"Stereochemistry"		Lecture-4: Prof D Ashok,	9:30 - 10:30 a.m
			Director RDCC, OU	
₭		1	АК	10:30 -11:00 a.m
ession-IV	"Materials"		Lecture-5: Prof M Vithal, UGC-BSR	11:00 -12:00 p.m
N			Dept. of Chemistry, OU	
ession-IV	"Rotational &Vibrational		Lecture-6: Prof P Veerasomaiah,	
	Spectroscopy"		nator, UGC-SAP,Dept. of Chemistry,	12:00 -1:00 p.m.
×		OU		
K		1	EAK	1:00 -2:00 p.m.
ession-v	"Chromatography &		Lecture-7: Prof P V Rao, Professor, Dept.	2:00-3:00 p.m.
K	its Applications"	of Chem	nistry, OU	
*	"Elementary	Invited	Lecture-8: Prof N Swarnalakshmi, Retd.	
	Quantum		pr, Dept. of Chemistry, OU	3:00-4:00 p.m.
1	Chemistry"	- J	, <u>, , , , , , , , , , , , , , , , , , </u>	1
ession-V	•	Invited	Lecture-9: Ms.ShikaChander, Lecturer,	
	"Cosmetics &		of Chemistry, St.Francis College for	4:00-5:00 p.m.
¥	Perfumes"	Women,	Begumpet, Hyderabad	
<u>k</u>			TEA	
4Y -3:	15 th December 2018		Current-realized	T :
ession	Title of the Talk		Speaker Re-orientation to the Restructured CBCS C	Time
ession-VI		Students		9:30 - 10:30 a.n
	towards Research"	Students	VijayaBhaskar Reddy, Merck, USA	7.50 - 10.50 a.m
k	T	TEA BDE		10:30 -11:00 a.m
ession-VII	"Remedial Methods		Invited Lecture-11: Prof S Srihari,	11:00 -12:00 p.m
ession-VII	Pollutions"	5 101	Department of Chemistry, RGUKT,	11.00 12.00 p.m
			Basar	
in the second se	"Coordination Compou	nds"	Invited Lecture-12: Prof B	
×			Sathyanarayana, President, OUTA,	12:00 -1:00 p.m.
			OU	
¥				1.00.2.00
ession-VIII		NCH BR	EAK	1:00 -2:00 p.m.
	<u>Group-A Participants</u>	n ati a nla	<u>Group-B Participants</u> <u>Physical Chamistry</u> Practicals	2:00-5:00 p.m.
×	Inorganic Chemistry Pro Lab demonstration		Physical Chemistry Practicals – Lab demonstrations & Presentations	
K	Presentations	s a	Special Address by Prof M AnandRao	
	Special Address by	Prof	Retd. Professor, Dept. of Chemistry, OU	
ĸ	ChSarala Devi, Head,		, , , , , , , , , , , , , , , , , , ,	
K	Chemistry, OU	_	Sessionsconducted byDr TVD Prasad,	
N	Conducted by Prof K I		Dr D A Padmavathi	
¥	Dr P V Ananthalaksh	nmi, Ms		
	Y.LakshmiMadhuri			
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Y-4:	16 th December 2018			
ession	Title of the Talk		Speaker	Time
			e-orientation to the Restructured CBCS (
ession-IX	"Key Aspects	of	Invited Lecture-13: Prof	9:30 - 10:30 a.m.
	Thermodynamics"		ChAnjaneyulu, Prof. in Chemistry,	
			CVR College of Engineering & Retd. Prof., Dept of Chemistry, OU	
]]	ΓΕΑ BREA		10:30 -11:00 a.m.
ession-X	"NMR Spectroscopy"		Invited Lecture-14: Prof Shivaraj,	11:00 -12:00 p.m.
			Dean, Development & UGC Affairs,	
			OU	
	"Sustainable chemistry"		Invited Lecture-15:Dr. D.S.	12:00 -1:00 p.m.
	Sustainable enemistr	' y	Invited Lecture-15:Dr. D.S. Sharada, Associate Professor, IITH	12.00 1.00 p.m.
	L	INCH BRF		1:00 -2:00 p.m.
ession-XI	Group-A Participants	Dit	<u>Group-B Participants</u>	2:00-5:00 p.m.
ession-XI	"Analysis of Spec	-	Inorganic Chemistry Practicals – Lab	-
	Data of Organic Com	•	demonstrations & Presentations	
	Invited Lecture AKD Bhavani, <i>I</i>	e-16:Prof Dept. of	Special Address by Prof Abraham	
	Chemistry, OU	sept. Uj	Lincoln, Chairman, BOS, Dept. of	
			Chemistry, OU	
	Organic Chemistry Pr			
	Lab demonstrations &		Conducted by Prof PV Rao, Dr	
	Presentations		VijayaCharan, Ms Y Lakshmi	
	Special Address	by Dr	Madhuri	
	NJPSubhashini			
	Conducted by Prof			
	Kumar, Prof A KD F Dr K Shivakumar	Snavaniœ		
	<u></u>		TEA	
AV-5.	17 th December 2018			
	17 th December 2018			
ession	Title of the Talk	Speaker		Time
ession AY-5: Facult	Title of the Talk ty Development Program	mme: "A R	Re-orientation to the Restructured CBCS	Curriculum"
ession AY-5: Facult	Title of the Talk State ty Development Program State "Nano State	mme: "A R Invited I	Lecture-17: Dr Tata NarasingRao,	
ession AY-5: Facult	Title of the Talk State ty Development Program State "Nano State	mme: "A R Invited I		Curriculum"
ession AY-5: Facult	Title of the Talk Sty Development Program ''Nano Sty Materials''	mme: "A R Invited I Scientist, A	Lecture-17: Dr Tata NarasingRao,	Curriculum"
ession AY-5: Facult	Title of the Talk ty Development Program "Nano Materials"	mme: "A R Invited I Scientist, A	Lecture-17: Dr Tata NarasingRao, ARCI, Hyderabad	C urriculum'' 10:00 - 11:00 a.m.
ession AY-5: Facult	Title of the Talk ty Development Program "Nano Materials"	mme: "A R Invited I Scientist, 2 TEA BREA	Lecture-17: Dr Tata NarasingRao, ARCI, Hyderabad	C urriculum'' 10:00 - 11:00 a.m. 11:00 -11:30 a.m.
ession AY-5: Facult	Title of the Talk 1 ty Development Program "Nano "Nano 1 Materials" 1	mme: "A R Invited I Scientist, A TEA BREA ARCI Tou	Lecture-17: Dr Tata NarasingRao, A <i>RCI, Hyderabad</i> AK	Curriculum" 10:00 - 11:00 a.m. 11:00 -11:30 a.m. 11:30 am -1:00 p.m.
ession AY-5: Facul t ession-XII	Title of the Talk Title of the	mme: "A R Invited I Scientist, A TEA BREA ARCI Tou UNCH at A	Lecture-17: Dr Tata NarasingRao, ARCI, Hyderabad AK ur RCI	Curriculum" 10:00 - 11:00 a.m. 11:00 -11:30 a.m. 11:30 am -1:00 p.m. 1:00 -2:00 p.m.
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ssion AY-5: Facul t ssion-XII	Title of the Talk ty Development Program "Nano Materials" Lu	Invited I Scientist, A TEA BREA ARCI Tou UNCH at A Visit to AR	Lecture-17: Dr Tata NarasingRao, ARCI, Hyderabad AK ur RCI	Curriculum" 10:00 - 11:00 a.m. 11:00 -11:30 a.m. 11:30 am -1:00 p.m. 1:00 -2:00 p.m.
ssion AY-5: Facul t ssion-XII	Title of the Talk ty Development Program "Nano Materials" Lu	Invited I Scientist, A TEA BREA ARCI Tou UNCH at A Visit to AR	Lecture-17: Dr Tata NarasingRao, ARCI, Hyderabad AK ur RCI CI Labs	Curriculum" 10:00 - 11:00 a.m. 11:00 -11:30 a.m. 11:30 am -1:00 p.m. 1:00 -2:00 p.m.
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ession DAY-5: Facult ession-XII	Title of the Talk ty Development Program "Nano Materials" Lu	Invited I Scientist, A TEA BREA ARCI Tou UNCH at A Visit to AR	Lecture-17: Dr Tata NarasingRao, ARCI, Hyderabad AK ur RCI CI Labs	Curriculum" 10:00 - 11:00 a.m. 11:00 -11:30 a.m. 11:30 am -1:00 p.m. 1:00 -2:00 p.m.
ession	Title of the Talk ty Development Program "Nano Materials" Lu	Invited I Scientist, A TEA BREA ARCI Tou UNCH at A Visit to AR	Lecture-17: Dr Tata NarasingRao, ARCI, Hyderabad AK ur RCI CI Labs	Curriculum" 10:00 - 11:00 a.m. 11:00 -11:30 a.m. 11:30 am -1:00 p.m. 1:00 -2:00 p.m.
ession DAY-5: Facult ession-XII	Title of the Talk ty Development Program "Nano Materials" Lu	Invited I Scientist, A TEA BREA ARCI Tou UNCH at A Visit to AR	Lecture-17: Dr Tata NarasingRao, ARCI, Hyderabad AK ur RCI CI Labs	Curriculum" 10:00 - 11:00 a.m. 11:00 -11:30 a.m. 11:30 am -1:00 p.m. 1:00 -2:00 p.m.
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	18 th December 2018			
ession Title of the Talk Speaker Time				
		mme: "A Re-orientation to the Restructured CBCS C		
ession-XIII	"Bio-Inorganic Chemistry"	Invited Lecture-18: Prof M Devadas Retd. Professor, Dept. of Chemistry, Osmania University	9:30 - 10:30 a.m.	
		TEA BREAK	10:30 -11:00 a.m.	
ession-XIV	"Electroanalytical Methods"	Invited Lecture-19: Prof Panasa Reddy, Head, Dept. of Chemistry, OU College of Engineering	11:00 -12:00 p.m. 12:00 -1:00 p.m.	
	"Pharmaceuticals"	Invited Lecture-20: Prof A Ravindranath, Dean of Technology, College of Technology, OU	1.00.2.00	
	1	LUNCH BREAK	1:00 -2:00 p.m.	
ession-XV	"Laboratory Safety & Measures"	Invited Lecture-21: Dr BabuRao, <i>Retd. Scientist, CSIR-IICT</i> Invited Lecture-22: Prof P Vijay Kumar,	2:00-3:00 p.m.	
	"Medicinal Chemistry"	Co-Convener of the Programme, Dept. of Chemistry, OU	3:00-4:00 p.m.	
aledictory ession		Chief Guest: Prof ChGopal Reddy, Registrar, Osmania University Guest of Honour: Prof Ch Ganesh, CDE, OU Guest of Honour: Prof ChVenkatarmana Devi, Dean, Faculty of Science, OU	4:00-5:00 p.m.	

Telangana State Council for Higher Education (TSCHE) has taken up measures to enhance the quality of higher education by implementation of CBCS curriculum as per UGC guidelines in all the colleges under various State Universities of Telangana. The curriculum with the respective syllabi of various courses under CBCS pattern as recommended by TSCHE are further pruned by Osmania University with respect to skill enhancement, core elective and generic elective courses and implemented for the students of undergraduation admitted in the year 2016 and onwards.

In this regard, Department of Chemistry, Osmania University has taken up the initiative in organizing the workshop entitled "Faculty Development Programme in Chemistry for UG Teachers: A Re-orientation to the Restructured CBCS Curriculum" from 13-18 th December 2018 sponsored by TSCHE and RUSA (MHRD). The experts and academicians across the state and reputed institutions and universities are invited to address the sessions along with the senior faculty members of the Department of Chemistry, OU.

The Programme started with a formal enrolment of the pre-registered teacher participants from various Degree Colleges under the Universities of Telangana State. About 90 participants from Colleges of twin cities, Siddipet, Adilabad, Mahbubnagar, Khamman, Warangal, Nalgonda, RR District, Nizambad, Karimnagar affiliated to Osmania, Kakatiya, Mahatma Gandhi, Telangana, Sathavahana, Palamur, RGUKT and GITAMS Universities have attended the one week Faculty Development Programme.

A formal inaugural function was held which started with an auspicious lightening of the lamp symbolic of invocation of positivity and knowledge seeking followed by National song "Vandemataram". The inaugural was graced by Prof S Ramachandram, Vice-Chancellor, Osmania University as the Chief Guest. Dr Ch Mohan Rao, Former Director of CSIR-CCMB and Prof B Satyanarayana, President, OUTA were the guests of honour. Prof K Pratap Reddy, Principal, University College of Science, OU presided over the function. Prof Ch Abraham Lincoln, the Director of the programme and Chairman, Board of Studies, Dept. of Chemistry welcomed the guests and Prof ChSarala Devi, Head, Department of Chemistry gave a brief account of activities of the Department. Prof P Leelavathi, the convener of the workshop introduced the theme of the workshop and reminded the teachers of the famous of quote of Albert Einstein that Education should not be a mere learning of facts but should be training of the mind to think.

Prof A Balakishan, Director, UGC-HRDC, OU who was the special guest appreciated the department to have taken up the initiative of conducting the workshop for the UG Teachers. This programme was organized under the guidance of the UGC-HRDC, OU. Sri A

Bhaskar Reddy, the executive member of OU Chemistry Foundation, An Alumni Association of the department briefed up the activities the Alumni has been doing in collaboration with the department and assured that Alumni shall support several other activities of the department for the benefit of the faculty and students to maintain the pride of the department which is regarded as the jewel of this primier institution, Osmania University. The OUCF happens to be one of the sponsor of the event.

Prof B Satyanarayana emphasized that the teachers need to update their knowledge through various refresher and training programmes. Dr Ch Mohan Rao motivated the participants that teachers should maintain quality of education and appreciated the quote by Prof Leelavathi. He advocated that teachers should inculcate research interest by giving project work and guide the students. Prof S Ramachandram, the Hon'ble Vice-Chancellor extended his appreciation to the department for conducting the faculty development programme for the UG Teachers and said that the quality of research and education should further be improved for the students to compete globally with the standards of esteemed universities of the world. He inculcated that the faculty and department should take steps in this regard and advised the UG Teacher participants to do quality research and encourage students also to take up to research to strengthen the standards of educational institutions. The dignitaries formally released the BSc Chemistry Practical manual prepared by the faculty of the department in this regard and distributed to the participants. The session ended with a formal vote of thanks by Prof P Vijay Kumar, the Co-Convener of the workshop.

The Post inaugural session started by the Key note lecture by Prof B Sathyanarayana who spoke on "CBCS Curriculum: An Overview" where he explained the various aspects of CBCS including the various courses, papers, electives, credits offered, grading, evaluation mode etc. He further clarified the various doubts and queries of the teacher participants during their interaction after the lecture. The first invited lecture then was by Prof Shankar Ganesh from BITS, Hyderabad who talked on the "Role of Applied Research in Enabling Teaching and Learning Process". Prof Ganeshhighlighted the need to reform the teaching and learning methodologies and improvise by taking up research based methods. The second lecture was then by Prof B.K. Naidu, a retd. Professor from Osmania University who talked on the ICT based teaching emphasizing the role of teaching tools with simple examples. The Practicals session began after the lunch where the participants were made into two groups and one group was given demonstration in both the previously existing experiments along with the new ones added in the revised syllabi of Physical chemistry lab experiments after a briefing by Prof P Veerasomaiah, a senior faculty member of physical chemistry of the

other faculty members.

department. The second group had a lecture by Prof P Leelavathi on the "Analysis of Spectroscopic Data of Organic Compounds" which was then followed by demonstration of experiments in organic chemistry lab that were introduced newly in the syllabus along with the experiments in the previously existing syllabus with a briefing by Prof M Vijjulatha and

Day-2 had three lectures in the pre-lunch session and three in the post lunch session. First lecture was delivered by Prof D Ashok, the Director, RDCC, OU on "Stereochemistry" followed by lecture on "Materials" by a senior professor and an UGC-BSR fellow, Prof M Vithal. Materials topic was the newly introduced one in the BSc Chemistry syllabus both as discipline centric elective as well as Generic Elective for the non-chemistry UG students as well. The third lecture was by Prof P VeeraSomaiah on "Rotational & Vibrational Spectroscopy". Post Lunch session started with the lecture on "Chromatography & its applications" by Prof P V Rao, a senior professor of Inorganic Chemistry. The second talk in the session was by Prof N Swarnalakshmi, a Retd. Professor in Chemistry, OU on "Elementary Quantum Chemistry" who explained it in a very simplified manner demonstrating how the topic can be introduced to the non-maths based students in an interesting way. The next topic of the day was "Cosmetic Chemistry" by Ms.ShikhaChander, a senior teacher from St. Francis College for Women, Begumpet where this topic has been introduced more than 8 years ago as a skill enhancement course. Ms Shikha explained the syllabus that can be covered under this topic and interacted with participant teachers addressing their queries with regard to Cosmetic chemistry introduced as SEC course in the present CBCS curriculum of BSc Chemistry.

Day-3 had three lectures in the morning session and Practical sessions were followed after lunch for the two groups. First lecture was a special lecture by an elite alumni of the department Dr Vijay Reddy from Merck, USA who spoke on "Inspiring UG Students towards Research" and clearly explained the possibilities and ways in which the teachers can inspire the students towards research by taking up small research projects and involving them and guiding them. CBCS curriculum has a provision for the students to carry out research project worth 6 credits and in this regard his talk has thrown a new light on this area. Second lecture on "Remedial Methods for Pollutions" was by Prof K Srihari from RGUKT and his immense experience reflected in the lecture through the subtle and convincing manner in which he discussed the significance ozone depletion, global warming and environmental protection. The third lecture of the day was by Prof B Satyanarayana on "Coordination Compounds". The afternoon session after the lunch started with Physical

Chemistry Lab experiments briefing by Prof M AnandRao, Retd. Professor in Physical Chemistry, OU who is presently the faculty member of VJIT college of engineering, Ghatkesar for one group. After the briefing the participants had a proper demonstration of experiments in the physical chemistry lab by the faculty members of Physical chemistry of the department. The second group of participants had a briefing on the Inorganic Chemistry practical experiments by Prof ChSarala Devi followed by demonstration of experiments in food chemistry and cosmetic chemistry by the faculty members of Inorganic chemistry of the department who were assisted by the faculty members of food Science and Cosmetic Chemistry from University college for women and St. Francis College for Women respectively.

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Day 4 started with a lecture on "Key Aspects of Thermodynamics" by Prof ChAnjaneyulu, Prof. in Chemistry, CVR College of Engineering & Retd. Prof., Dept of Chemistry, OUfollowed by a lecture on NMR Spectroscopy" by Prof Shivaraj, Dean, Development & UGC Affairs, OU. The next lecture was on "Sustainable Chemistry" by Dr D S Sharada, Associate Professro from IIT, Hyderabad and an Alumni of the Department. Post lunch session started with the parallel sessions in practical demonstration of the experiments. One group had

a briefing on the Inorganic Chemistry practical experiments by Prof ChSarala Devi followed by demonstration of experiments in food chemistry and cosmetic chemistry by the faculty members of Inorganic chemistry of the department. The second group had a lecture on "Analysis of Spectroscopic Data of Organic Compounds" by Prof AKD Bhavani, Senior professor of organic chemistrywhich was then followed by demonstration of experiments in organic chemistry lab that were introduced newly in the syllabus along with the previously existing experiments in the syllabus with a briefing by Dr NJP Subhashini and other faculty members.

Day 5 started as a visit to ARCI which firstly covered a lecture by Dr Tata NarasingRao, Scientist, ARCIon "Nanomaterials". Then the participants were divided into two groups and the group one visited the Centre for Ceramics and Centre for Materials Characterization & Testing first and group two to Centre for Carbon Materials, Centre for Solar Energy and Centre for Nanomaterials and Centre for Sol-Gel Coatings. Later the groups visited the centres vice-versa. The lunch for the day was sponsored by ARCI at the Canteen of ARCI for all the participants and the accompanying faculty members and organizers of the department under the supervision of Dr Tata NarasingRao.

Day 6 started with a lecture by Prof M Devadas, Retd. Prof. in Inorganic Chemistry of the department on "**Bio-Inorganic Chemistry**" followed by the lecture on "**Electroanalytical Methods**" by Prof Panasa Reddy, Head, Dept. of Chemistry, OU College of Engineering. The third lecture was by Prof A Ravindranth, Dean, Faculty of Technology, OU on "**Pharmaceuticals**" which is discipline centric elective topic topic introduced in the revised CBCS Curriculum. The post lunch session had two lectures one being the SEC course topic viz., "**Laboratory Safety & Measures**" by Dr BabuRao,Retd. Scientist, CSIR-IICT and the other one being "**Medicinal Chemistry**" which is discipline centric electric topic by Prof P Vijaykumar, the Co-convener of the workshop.

Day 6 was the final day of the workshop which ended with the valedictory session. Prof ChGopal Reddy, Registrar, OU graced the occasion as the Chief Guest while Prof S Limbadri, Vice-Chairman, TSCHE was invited as the Guest of honour who couldnot make it to the function being pre-occupied with his schedule. Prof Shivaraj, Dean, Development & UGC Affairs and Prof Ch Ganesh, Director, CDE visited as special guests. The session was presided by Prof ChVenkataramana Devi, Dean, Faculty of Science, OU. Prof ChSarala Devi, The Head dept. of Chemistry welcomed the guestsand expressed her views for the improvisation of conditions with respect to the faculty members and the infrastructure at the various under graduate colleges and requested the authorities of University to act in this regard. Director of the programme, Prof Ch Abraham Lincoln appreciated the participation of the UG Teachers in the workshop. There was much appreciation and content expressed by some of the participants during the feedback session and some of them suggested that more such workshops with lectures and sessions on the newer aspects in chemistry be conducted regularly in future as well. The Co-convener of the workshop, Prof P Vijaykumar read out a brief report of the events of the workshop. Prof Ch Ganesh expressed his appreciation to the organizers for having conceived such a program and advocated that all the disciplines of the University should regularly take up such programmes for teachers and advised that teacher should continuously update their knowledge. Prof Shivaraj emphasized that the teachers should dedicatedly and sincerely work in inspiring the students to take up higher education and a career in chemistry research. Prof ChGopal Reddy, the Chief Guest also expressed his content with the activities of the department and appreciated both the organizers and the participants for their mutual contribution for the success of the faculty development programme. The dignitaries presented the certificates and CDs containing the lecture notes

