

KARPAGAM ACADEMY OF HIGHER EDUCATION

FACULTY DEVELOPMENT PROGRAMME (20-04-2018 to 10-05-2018)

Faculty Development Programme is to enrich the Knowledge of faculties through interaction with eminent personalities from industries and academics. The knowledge sharing will improve the teaching learning process to the students and benefit the society. Faculty development programs (FDPs) have proven to be successful for improving teaching skills in higher education. It aims at equipping teachers with skills and knowledge that are essential for inculcating educational values in students and guiding and monitoring their progress towards a bright career.

It has been long believed that the most important resource that any institution of higher education has is its faculty members who teach knowledge and skills to students. Faculty members need to be prepared enough by some sort of a faculty development program (FDP) in order to deal with the rapid changes and shifting paradigms in Higher education. Without such training, teaching is often reduced to instructors presenting their understanding of the subject by one-way lecturing.

The primary thrust of this 21 day (20-4-2018 to 10-5-2018) programme is to equip the participants with teaching skills in particular

1. Class room management,
2. Stress management,
3. Question paper setting,
4. Curriculum development & Evaluation
5. Discipline specific updation.

The Programme schedule was as follows.

Programme Schedule

Day No	Date	Department
1	20-4-2018	Inauguration, classroom Management, Stress Management
2	21-4-2018	Question Paper Preperation (Blooms taxonomy)
3	23-4-2018	Civil Engg., , Microbiology, Computer Science and Engineering
4	24-4-2018	Civil Engg., Microbiology, Biomedical Engineering, CSE
5	25-4-2018	Curriculum & Evaluation of Examination answer papers, Physics, Management, Biotechnology, English, EEE
6	26-4-2018	Physics, Management, Biotechnology, EEE
7	27-4-2018	Biochemistry, Mech.Engineering, ECE
8	28-4-2018	Biochemistry, Mech.Engineering, ECE
9	30-4-2018	Digital Initiatives
10	2-5-2018	Intellectual Property Rights
11	3-5-2018	Disaster Management, Electronics, Mathematics, B.Tech Biotech.
12	4-5-2018	Electronics, Faculty of Pharmacy, Mathematics, B.Tech Biotech. English
13	5-5-2018	Computer Science, Commerce, Faculty of Pharmacy
14	7-5-2018	Computer Science, Commerce
15	8-5-2018	Chemistry
16	9-5-2018	Chemistry
17	10-5-2018	Valedictory function

Time Schedule

S.No.	Time	Programme
1	10.00 am to 11.30 am	Talk by the resource person
2	11.30 am to 12.00pm	Tea
3	12.00 pm to 12.30 pm	Assignment/Test
4	1.30 pm to 3.00 pm	Talk by the resource person
5	3.00 pm to 3.30 pm	Tea
6	3.30 pm to 4.00 pm	Assignment/Test

The Assignment/ Test session were taken care of by the respective HOD's and FDP Coordinators.

Details about the Faculty Development programme (FDP) conducted between 20-4-2018 and 10-5-2018

S.No	Date	Department /Session	Name of the Resource Person	Topic	No. Of Faculty members
1.	20-4-2018	General/FN	Dr.V.Ramakrishnan, Former Principal, Dr.N.G.P. College of Education, Coimbatore	Class Management	170
2.		General/AN	Dr.V.Ramakrishnan, Former Principal, Dr.N.G.P. College of Education, Coimbatore	Stress Management	170
3.	21-4-2018	General/FN	Dr.S.S. Manimozhi Assistant professor, Department of Education, Avinasilingam Institute of Home Science and Higher Education for Women. Coimbatore	Blooms Taxonomy	118
4.		General/FN	Dr.R. Vijayanthi Assistant professor, Department of Education, Avinasilingam Institute of Home Science and Higher Education for Women. Coimbatore	Blooms Taxonomy	44
5.		Civil Engg/AN	Dr.E.B.PerumalPillai Professor, Veltech University, Avadi Chennai	Duties and responsibilities of Teachers.	16
6.	23-04-2018	Civil Engg/FN	Dr.S.Kandhasamy, Professor (Retired) Government College of Technology, Coimbatore	Design of RC structures	16
7.	23-4-2018	Microbiology/ FN	Dr. P. Ekambaram Department of Biotechnology, Bharathiar University, Coimbatore,	Techniques in Molecular Toxicology	39
8.		Microbiology/	Dr. S. Nakeeran Department of Plant	Disease Management	39

		AN	pathology, TNAU, Coimbatore.	in High Quality crops using endophytic Bacillus	
9.	23-4-2018	CSE/FN	Mr.K.Balamurugan Technical Engineer Newareeliya Soft Tech Pvt Ltd Coimbatore	Internet of things	13
10.		CSE/ AN	Mr.K.Balamurugan Technical Engineer Newareeliya Soft Tech Pvt Ltd Coimbatore	Hand's on training on Internet of things	13
11.	24-4-2018	Civil Engg/FN	Rathinavel PON, Assistant Professor, Akshaya College of Engineering & Technology, Coimbatore	Soft Skill Development	16
12.		Civil Engg/AN	Dr.Anandharaj, Consultant, Pranav Consultancy Coimbatore.	Building and Land Valuation	16
13.	24-4-2018	CSE/ FN	Ms.N.Narmadha Technical Head Newareeliya Soft Tech Pvt Ltd Coimbatore	Mobile application Development	27
14.		CSE/AN	Ms.N.Narmadha Technical Head Newareeliya Soft Tech Pvt Ltd Coimbatore	Hands on training using Android Studio	27
15.	24-4-2018	Microbiol ogy/ FN	Dr.MohamadIllias, Professor, Dept of Biotechnology, Jammal Mohamed College, Trichy	Recent Advancement in Lifescience Research	34
16.		Microbiol ogy/ AN	Dr.Kumar, Adviser Tropical Bioscience, Coimbatore.	Formulation of Biofertilizer	34
17.	25-4-2018	General/ FN	Dr.M.G.Sethuraman, Professor, Dept. of Chemistry,	Quality Methods in Evaluation	87

			The Gandhigram Rural Institute (Deemed to be University), Gandhigram - 624 302 Dindigul District, Tamilnadu		
18.	25-4-2018	EEE/FN	J.Jijo Christo Seniro Application Engineer, Axis Global Institute of Industrial Training, Engineering Consultant in Coimbatore, Lakshmipuram, Coimbatore, Tamil Nadu 641004	Basics of Programmable Logic Controller	10
19.	25-4-2018	EEE/AN	J.Jijo Christo Seniro Application Engineer, Axis Global Institute of Industrial Training Engineering Consultant in Coimbatore Lakshmipuram, Coimbatore, Tamil Nadu 641004	Basics of Programmable Logic Controller	10
20.	25-4-2018	Physics/ FN	Dr.C.Hariharan, Assistant Professor, Department of Physics, Jamal Mohamed College, Trichy	The God's Particle	17
21.	25-4-2018	Physics/ AN	Dr.K. Panneerselvam, Assistant Professor, Department of Physics, Government Arts College, Kumbakonam	Structural Studies on Biomolecules /Biomaterials	17
22.	25-4-2018	Biotechnology/ FN	Dr. S.C.G. Kiruba Daniel Director / Co - Founder JKN NanosolutionsPvt.Ltd.,Bengaluru Mobile: +91 9442330984	"Innovations in Nanotechnology fueling Development "	22
23.	25-4-2018	Biotechnology/ AN	Dr. S.C.G. Kiruba Daniel Director / Co - Founder JKN NanosolutionsPvt.Ltd.,Bengaluru Mobile: +91 9442330984	Applications and case studies of Nanotechnology	22
24.	25-4-2018	Management/ FN	Dr.SanjayBanerji, Professor Emeritus,	"Environmental	17

			Amrita School of Buisness, Coimbatore	Management and Sustainable Development ”	
25.	25-4-2018	Managem ent/AN	Mr. Francis Xavier, Founder, Out Reach Foundation, Coimbatore	Exponential Learning	17
26.	26-4-2018	Physics/F N	Dr.S.Arumugam, Professor, Department of Physics, Gandhigram Rural Institute, Gandhigram, Dindigul Phone No. 9442245523	Renewable and Solar Cells Fundemental s	28
27.	26-4-2018	Physics/ AN	Dr.S.Muruganand, Assistant Professor, Department of Electronics & Instrumentation, Bharathiar University, Coimbatore	Methods of Teaching	27
28.	26-4-2018	Biomedica l Engg/FN	Padmapriya, Associate Professor, Department of Bio-Medical Engineering, PSG college of Technology, Coimbatore	Bio-Control System	15
29.	26-4-2018	Biomedica l Engg /AN	BanuRekha, Assistant Professor (Senior grade), Department of Bio-Medical Engineering, PSG college of Technology, Coimbatore	Bio-Signal Processing	15
30.	26-4-2018	Biotechnol ogy/FN	Dr. A. Gnanamani Principal Scientist, Biological Material Laboratory, CSIR – Central Leather Research Institute, Adyar, Chennai – 20 Phone:91 44 24437135	Observations - A lead to Research	31
31.	26-4-2018	Biotechnol ogy/FN	Dr.Kathirvelu DRDO-BU Centre for Life Sciences, Bharathiyar University Campus,	Applications of Life Sciences in Defense	31

			Coimbatore, 9791907034	sector.	
32.	26-4-2018	Management/FN	Dr.MaryMetilda, Professor & Head, Department of Management, SREC, Vattamalaipalayam, Coimbatore	e-Retailing	17
33.	26-4-2018	Management/AN	Mr. Mahesh, Senior Consultant, M/s Annamalai Capital Pvt. Ltd. Coimbatore	Investment in Mutual Funds	17
34.	26-4-2018	EEE/ FN	J.Jijo Christo Seniro Application Engineer, Axis Global Institute of Industrial Training Engineering Consultant in Coimbatore Lakshmipuram, Coimbatore, Tamil Nadu 641004	Basics of Programmable Logic Controller	12
35.	26-4-2018	EEE/ AN	J.Jijo Christo Seniro Application Engineer, Axis Global Institute of Industrial Training Engineering Consultant in Coimbatore Lakshmipuram, Coimbatore, Tamil Nadu 641004	Basics of Programmable Logic Controller	12
36.	27-4-2018	Biochemistry/FN	Dr.E.M. Shankar, Associate Professor & Head, Department of Life Sciences, Central University of Tiruvarur, Tiruvarur	Cell mediated immunity – A mechanistic perspective	24
37.			Dr.E.M. Shankar, Associate Professor & Head, Department of Life Sciences, Central University of Tiruvarur, Tiruvarur	Cell mediated immunity – A mechanistic perspective	24
38.	27-4-2018	Mechanical Engg./FN	Dr.R.Thirumalai Professor Department of Mechanical Engineering Dr.NGP Institute of Technology, Coimbatore	Advanced Manufacturing process optimisation	29
39.		Mechanica	Dr.M.Shanmugaraja	Engineering	29

		I Engg./FN	Professor and Head Department of Automobile Engineering SNS College of Technology, Coimbatore	Mechanics	
40.	27-4-2018	ECE/FN	Mr.Jerold Renojoy Auto Care Pvt. Ltd., Coimbatore	Internet of things	10
41.		ECE/FN	Mr.Jerold Renojoy Auto Care Pvt. Ltd., Coimbatore	Internet of things	10
42.	27-4-2018	English/F N	Dr.P.Nagaraj, Asst. Professor, Department of English. Bharathiar University, Coimbatore.	English Language Teaching	
43.	28-4-2018	Biochemis try/FN	Dr.P.R. Padma Professor and Head Department of BC, BT & BI Avinashilingam Institute for Home Science and Higher Education, Coimbatore	Pharmacogen omics and personalized Medicine	20
44.		Biochemis try/FN	Dr.R.Baskar, Associate Professor, Department of Biotechnology, Kumaraguru College of Technology,Coimbatore	Free radicals in Health Research	15
45.	28-4-2018	ECE/ FN	Dr.P.T.Vanathi Associate professor PSG Institute of Technology Coimbatore	Mixed Signal Design	11
46.		ECE/ AN	Dr.P.T.Vanathi Associate professor PSG Institute of Technology Coimbatore	Mixed Signal Design	11
47.	28-4-2018	Mechanica l Engineerin g/FN	Dr.V.M.Murugesan Associate Professor Department of Automobile Engineering PSG College of Technology Coimbatore.	Advanced automotive Engines	23
48.		Mechanica l Engineerin g/ FN	Dr.R.Thirumalai Professor Department of Mechanical Engineering	Lean Manufacturin g and Minitab 16	23

			Dr.NGP Institute of Technology, Coimbatore		
49.	28-4-2018	B.Tech Biotech/FN	Dr.V.Vijaya Padma, Professor and Head, Department of Biotechnology, Bharathiar University, Coimbatore	Immuno Oncology	9
50.	30-4-2018	Digital Initiatives/FN	Dr.M.Palaniswamy Dean (FASH) Karpagam Academy of Higher Education Coimbatore	Digital Initiatives	20
51.	2-5-2018	Intellectual Property rights	Dr.Hari Prasad Assistant Professor, Karpagam Academy of Higher Education Coimbatore	Intellectual Property Rights	32
52.	3-5-2018	B.Tech Biotech/FN	Dr.C.Gomadurai, Associate Professor, Department of Chemical Engineering, Kongu Engineering College, Erode	Chemical and biochemical applications of thermodynamics	8
53.	3-5-2018	B.Tech Biotech/FN	Dr.N.Saraswathy, Professor & Head, Department of Biotechnology, Kumaraguru College of Technology, Coimbatore	Funding opportunities for young investigators	14
54.	3-5-2018	Mathematics/FN	Dr.K.Balachandran, Professor, Bharathiar University, Coimbatore	Differential Equations-classical to Fractional”	16
55.	3-5-2018	Mathematics/AN	Dr.K.Balachandran, Professor, Bharathiar University, Coimbatore	Differential Equations-classical to Fractional”	16
56.	3-5-2018	Electronics/FN	Dr.Sivanandan, Associate Professor, Department of Electronics, PSG college of Arts and science, Coimbatore.	Digital Image processing techniques in Biomedical Applications and extraction of	17

				various types of signals	
57.	3-5-2018	Electronics/AN	Dr.S.Muruganand, Associate Professor, Department of Electronics and Instrumentation, Bharathiar University, Coimbatore	Micro Electro Mechanical Systems	17
58.	3-5-2017	Disaster Management/FN	Mr.K.Murthi Retired Southern Railways Technical Trainer Pothanur. Coimbatore	Disaster Management	100
59.	4-5-2018	B.Tech Biotech/FN	Dr.G.Sudha, Professor & Head Department of Biochemistry, Periyar University, Salem	Mushroom Nutraceuticals	11
60.	4-5-2018	Mathematics/FN	Dr.V.Sundrapandian, Professor & Dean, Research & Development Centre Vel Tech University, Chennai	MATLAB	15
61.	4-5-2018	Mathematics/AN	Dr.V.Sundrapandian, Professor & Dean, Research & Development Centre Vel Tech University, Chennai	MATLAB	15
62.	4-5-2018	Electronics/FN	D.Karthikeyan, Director, Thick India Solutions Private Limited, Coimbatore	Embedded systems and IOT	13
63.	4-5-2018	Pharmacy / FN	Dr.S.Subramanian, Professor, Department of Pharmaceutics, PSG College of Pharmacy, Coimbatore	Nano Particulate Drug Delivery for Anticancer Drugs	36
64.	4-5-2018	Pharmacy/AN	Dr.Arun Associate Professor, Karpagam Faculty of Medical Science and Research, Coimbatore	Coagulants and Anticoagulants	20
65.	4-5-2018	English /FN	Dr.S. Senthilnathan Director (FAC), UGC Human Resource Development Centre, Assistant Professor and	English Language Teaching	14

			Deputy Co-ordinator, UGC-SAP (DRS) Department of Educational Technology, Bharathidasan University, Tiruchirappalli.		
66.	4-5-2018	English /AN	Dr.S. Senthilnathan Director (FAC), UGC Human Resource Development Centre, Assistant Professor and Deputy Co-ordinator, UGC-SAP (DRS) Department of Educational Technology, Bharathidasan University, Tiruchirappalli.	English Language Teaching	14
67.	5-5-2018	Pharmacy/ FN	Dr.R.Duraiswamy, Professor & Head, Department of Pharmacognosy Nandha College of Pharmacy, Erode	Biomarkers: An indicator of Human health and diseases	7
68.	5-5-2018	Commerce /FN	Mr.Alagupandi, Corporate Tally Trainer, Kalvi Educational Trust Coimbatore Phone: 8610642700	Tally with GST	16
69.	5-5-2018	Commerce /AN	Mr.Karthikeyan, International Financial Reporting System (IFRS), Coimbatore	International and Indian Accounting Standards	16
70.	5-5-2018	Computer Science/ FN	S.M.Nathan, Android Developer Accent Technosoft, 203 Nehru Street, Ramnagar, Coimbatore	Mobile Application Development using Kotlin	29
71.		Computer Science/ FN	S.M.Nathan, Android Developer Accent Technosoft, 203 Nehru Street, Ramnagar, Coimbatore	Mobile Application Development using Kotlin	29
72.	7-5-2018	Commerce /FN	Mr.Parthasarathy, Excel Academy, Coimbatore Phone NO. 9842416426	Training on Excel Functions	18
73.	7-5-2018	Commerce	Mr.Richa Ranjith	Recent	18

		/AN	Chartered Accountant Coimbatore,	Trends in Taxation and Filing of Tax Returns	
74.	7-5-2018	Computer Science/F N	Dr.G.Gavaskar, Associate Professor, Department of Computer Science,Bharathiar University, Coimbatore	Types and Applications of Sensors	24
75.	7-5-2018	Computer Science/F N	Dr.G.Gavaskar, Associate Professor, Department of Computer Science,Bharathiar University,Coimbatore	Types and Application of sensors	24
76.	8-5-2018	Chemistry /FN	Mr. Shiv Shanmugam Director, M/S Polyhedron Pvt. Ltd., Erode.	Potential and Opportunities for Partnership in Research– Sustainable linkages with Industries	18
77.	9-5-2018	Chemistry /FN	Dr.R.Nandha Kumar Asst. Professor, Karunya Institute of Technology, Coimbatore	Supramolecul ar Chirality: Discriminatio n of amino alcohols and Inversion of amino acids	19
78.	9-5-2018	Chemistry /FN	Dr.Mohan, Principal, Karpagam College of Pharmacy, Coimbatore	Role of Organic Chemistry in Pharmaceutic al Industries	19
79.	9-5-2018	Chemistry /AN	Dr.B.Vidya, Asst. Professor, Department of Nanoscience and Technology Karunya Institute of Technology, Coimbatore	Nanomaterial s for Energy and Environment al Applications	19

The FDP started on 20th of April 2018 with an Inauguration Function. The Programme was inaugurated by **Dr.R.Sundararajan**, Registrar, KAHE and the Chief guest was **Dr.V.Ramakrishnan**, Former Principal, NGP college of Education, Coimbatore. There were various other informative sessions held by eminent faculty members. Totally 79 sessions in different disciplines were conducted. Expert Member from various Universities and Industries delivered the lectures.

Invocation

In order to attain success, this function started with the prayer song.

Lighting up the lamp

Lighting up the lamp will erase the darkness and give the shine of brightness. To wipe away the ignorance and to furnish the light of intelligence, Dr.R.Sundararajan, the Registrar and the dignitaries in the dais lighted up the lamp to blow up the gloom of ignorance.



Lightening of Lamp at Inaugural Function.

Welcome Address

A Meet with greeting will form a good Gathering, Dr.S.Ravi, Professor & Head, Department of Chemistry, welcomed the congregation.

Inaugural Address

Dr.R.Sunderarajan, Registrar, a successful gentleman of KAHE delivered the inaugural address.

In the Inauguration address he stressed about the importance of the FDP. He also emphasized the benefits of such kind of resourceful activity. He wished the participants for upcoming sessions and suggested the participants to get maximum experience of the FDP.



Inaugural Function

After the Inaugural address, the chief guest **Dr.V.Ramakrishnan** delivered the Keynote address followed by the felicitations by The Dean (FASH), Dean (FOE) and The Dean (FOP). Mr. Shanmugavel, Director IQAC, gave the vote of thanks.

Programmes

We are living in an information technology era. With the boom of knowledge Economy there is a boost in the higher educational sector that results in huge demand for well trained academic professionals. Though teaching is an art, there are scientific ways to improve teaching process. The 21 day FDP programme was scheduled within the institute premises along with

presence of all the faculty members of Faculty of Arts, Science, Humanities (FASH), Faculty of Engineering (FOE) and Faculty of Pharmacy.

Date: 20th April 2018

Technical Session: 1

Topic: Classroom Management

Resource Person: Dr.V.Ramakrishnan, Former Principal, NGP college of Education, Coimbatore.

In the forenoon session he discussed and suggested various tips and techniques for effective education. About 170 faculty members attended the programme. He elaborated what to do during class room teaching under the title “**Class Management**”. All participants learnt many creative ideas. He suggested that we should frame our pedagogy based on students learning style and not based on teacher’s learning style. He also discussed how a faculty can make students to create and ask questions while taking class. Further he insisted that Active learning leads to better learning and retention. So teaching should aim at developing interpersonal, information gathering, analytical and behavioural skill of students by implementing active learning tools which suits their learning style.



Session in motion by Dr.V.Ramakrishnan



Interactive Session in motion

Date: 20th April 2018

Technical Session: 2

Topic: Stress Management

Resource Person: Dr.V.Ramakrishnan, Former Principal, NGP college of Education, Coimbatore.

In the afternoon session he discussed about the “**Stress Management**”. Stress is not always bad, though. Stress within one’s relief zone can motivate him to do his best, help him perform under stress, even keep him safe when vulnerability emerges. However, when stress comes to be overpowering, it can impair one’s well-being, mood, relationships, and quality of life. Some people find a situation stressful because it is unfamiliar and they do not know how to respond. Others hardly notice the same situation because it is well known to them and they respond without having to give it much thought. He suggested few ways to come out of stress like eliminate negative thinking, embrace positive thoughts, Develop your potential and special interests: sports, literature, music, engage with support systems: peers, community, etc., Identify goals and work toward them, Learn to be proactive, not reactive and learn positive problem-solving techniques. Towards the end of the programme faculty members interacted with him posing many questions and were answered well which in turn were well received by the faculty members. About 170 faculty members attended the programme.



“Stress Management” Session in motion

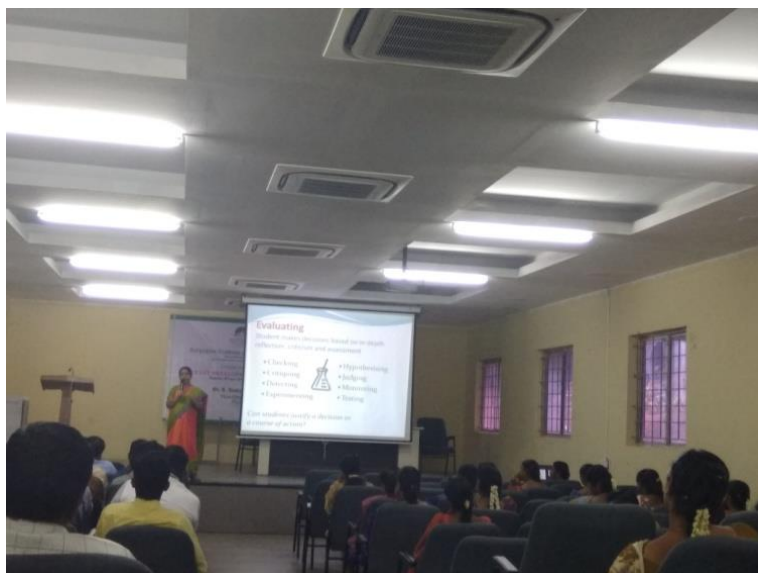
Date: 21st April 2018

Technical Session: 3

Topic: Bloom’s Taxonomy

Resource Person: Mrs.S.S.Manimozhi, Assistant Professor of Mathematics, Department of Education, Avinashilingam Institute for Home Science and Higher Education for Women

On 21-4-2018 Faculty members were enlightened with Bloom’s Taxonomy. Benjamin Bloom in 1956 proposed a Taxonomy of Learning Objectives of the Cognitive Domain. This work has been extensively used and referred to by researchers, teachers, educationists, curriculum planners and examiners, almost at all levels of education in several disciplines. (Anderson and Sosnaik 1994).¹¹ The objectives are placed in a hierarchy starting from Knowledge to Evaluation. The first three levels namely knowledge, comprehension and application are generally known as LOTS (Lower Order Thinking skills) while, analysis, synthesis and evaluation are termed HOTS (Higher Order Thinking Skills). The levels have been a stairway leading many teachers to encourage their students to climb a higher level of thought. There is a need to sensitize the faculty members on this critical aspect. Mrs.S.S.Manimozhi inspired the participants to work in the above lines. In this session participants realized the significance of Bloom’s Taxonomy.



The session on **Bloom's Taxonomy** by **Mrs.S.S. Manimozhi**for Faculty of Arts, Science and Humanities and Faculty of Pharmacy.

Date: 21st April 2018

Technical Session: 4

Topic: Bloom's Taxonomy

Resource Person: Mrs.R.Vaijayanthi, Assistant Professor of Mathematics, Department of Education, Avinashilingam Institute for Home Science and Higher Education for Women

Mrs.R.Vaijayanthi handled the session for the Faculty of Engineering. She discussed and explored that the teachers can develop the critical thinking skills of the students using Bloom's Taxonomy. A teacher can ask more questions at the analysis and synthesis level than a simple recall of facts at the knowledge level. "Students can incorporate the ability to analyze, synthesize or evaluate the concepts for which there should be an increase in their learning and understanding resulting in enhanced retention of the subject matter taught and ability to apply them in real life situations." In the afternoon session faculty members worked out many problems (setting up of question papers). The purpose of the session was to know the extent of awareness of Bloom's Taxonomy and Higher Order Thinking Skills (HOTS) amongst the faculty members and to analyze the end- semester question papers with respect to HOTS as proposed by Bloom's Taxonomy.



The session on Bloom's Taxonomy by Mrs.R.Vaijayanthi for Faculty of Engineering



Faculty members setting up question papers based on Bloom's Taxonomy

Date: 21st April 2018

Technical Session: 5

Department: Civil Engineering

Topic: Duties and responsibilities of Teachers.

Resource Person:Dr.E.B.PerumalPillai, Director, Vel-Tech University, Chennai

The FDP for Civil Engineering Department started on 21st April 2018. Since the Faculty members of the Civil Department thought that apart from academics some additional parameters are required which in turn will help them to enhance their skills. To start with an Approach

towards Innovative Pedagogy, in the afternoon session **Dr.E.B.PerumalPillai**, gave a talk on “Duties and responsibilities of teachers”. About 16 members attended the programme. Dr.E.B.PerumalPillai discussed about the importance and techniques of effective teaching, Research, how to utilize the facilities effectively and administration. Towards the end of the programme the faculty members have gained a confidence to prepare the course material with relevant points, sequentially arranging them and edit them. Further they have gained knowledge about the usage of library, time management and the necessity of research and developments.



Dr.E.B.PerumalPillai explaining the qualities of teaching

Date: 23rd April 2018

Technical Session: 6

Department : Civil Engineering

Topic: Design of RC structures

Resource Person:Dr.S.Kandhasamy, Professor (Retired), Government College of Technology, Coimbatore.

Design of reinforced concrete structure is one of the major streams in civil engineering. Since it is completely design oriented a deep knowledge is required. To enhance the knowledge of the faculty members in this area **Dr.S.Kandhasamy**, delivered a talk on “Design of RC structures”. About 16 members attended the programme. He discussed widely about the structural members, Structural analysis, Methods of design, Teaching methodology of RC elements, Codel Provisions and stress strain relationships. At the end of the session the participants were skilled with

1. Various methods of analysis
2. Prototype way of designing
3. Formulation of equations in code books.



Dr.S.Kandhasamy explaining “Design of RC structures”

Date: 23rd April 2018

Technical Session: 7

Department: Microbiology

Topic: Techniques in Molecular Toxicology

Resource Person: Dr.P.Ekambaram, Department of Biotechnology, Bharathiar University, Coimbatore

On 23rd of April 2018, in the morning session Dr.P.Ekambaram, highlighted about the funding agencies, funding schemes, fellowships and funding opportunities for novel projects. Further in his talk he focused on present issues like acute fluoride toxicity, hypocalcemia, hyperkalemia mediated ventricular arrhythmias, oxidative stress, apoptosis and necrotic markers. About 34 faculty members attended the programme.



The session on “Techniques on molecular toxicology” by Dr.P.Ekambaram

Date: 23rd April 2018

Technical Session: 8

Department: Microbiology

Topic: Bacillus spp.- Unexplored Hidden Treasure for the Management of Diseases of High Valued Cut Flowers

Resource Person:Dr.S.Nakeeran, Department of Plant Pathology, TNAU, Coimbatore

In the evening Session sessionDr.S.Nakeeran, delivered a special lecture on “Bacillus spp.- Unexplored Hidden Treasure for the Management of Diseases of High Valued Cut Flowers”. This is an area where the faculty members are interested to write projects on agricultural betterment using microbes. He also discussed new and strange results about the role of anti microbial peptides, antifungal action of n-decanal, diversity of microbial community, Chrysanthemum white rust, immigration of plant pathogens, chlorotic and necrotic streaks, diagnosis, diverse AMP genes and necrotic lesions on stem. He also discussed about the Survey on plant diseases.



Dr.S.Nakeeran on “Bacillus spp.,- Unexplored Hidden Treasure for the Management of Diseases of High Valued Cut Flowers”.

Date: 23rd April 2018

Technical Session: 9

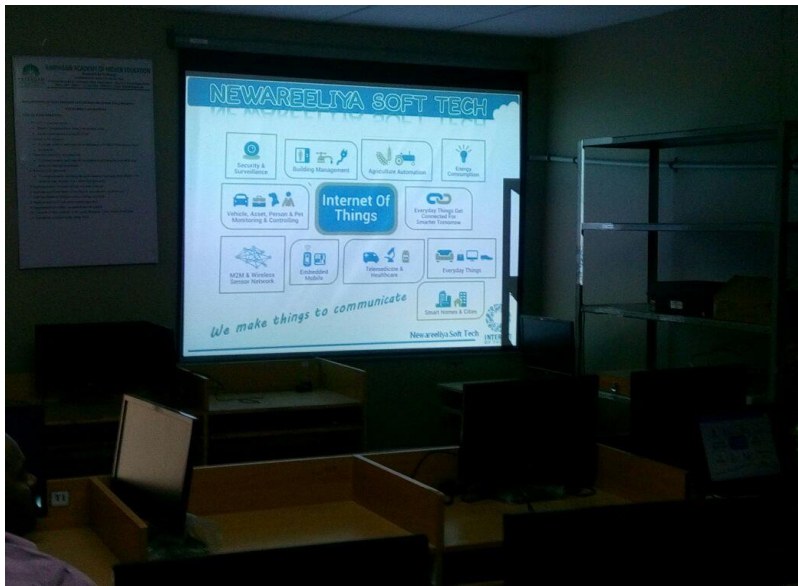
Department: Computer Science and Engineering

Topic: Internet of things

Resource Person:Mr.K.Balamurugan, Technical Engineer, M/s Newreliya Soft Tech Pvt.Ltd., Coimbatore

In the morning session Mr.K.Balamurugan gave a talk on “Internet of things”. About 13 faculty members attended the programme. Internet of things has the capability to transform the world we live in; more efficient industries, connected cars and smart cities are all the components of IOT induced product. This was discussed and explained by Mr.K.Balamurugan.

The program showed the faculty members of CSE the scope of the IOT, and revealed underlying principles and architecture of its networks, devices, programming, data, and security. Faculty members gained a deeper knowledge about IOT and familiarize with application areas of IOT especially home automation ,where it offers smart system solutions for operating electrical devices while saving on energy , agricultural areas to measure and monitor the temperature, soil moisture, light, humidity etc. For outdoor agriculture, an example could be sensing soil moisture and taking weather into account, so that smart irrigation systems, where watering crops when needed, reducing the amount of water usage. For indoor agriculture, IOT allows monitoring and management of micro-climate conditions (humidity, temperature, light, etc.) to maximize production. Likewise we Gained more knowledge on the sensors within or attached to these system such as RFID, NFC, Wi-Fi, Bluetooth, and Zigbee.



The session on “Internet of Things” by Mr.K.Balamurugan in motion

Date: 23rd April 2018

Technical Session: 10

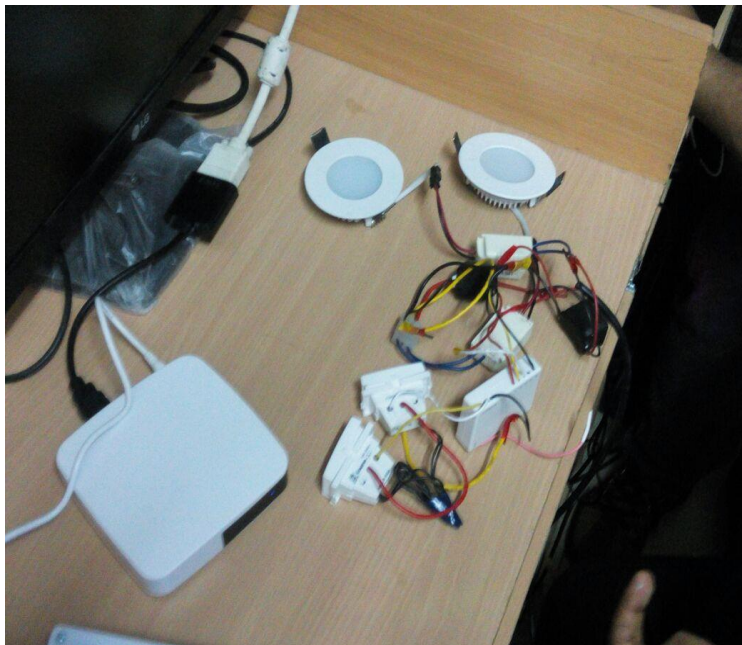
Department: Computer Science and Engineering

Topic: Hands on training using Arduino, raspberry pi

Resource Person:Mr.K.Balamurugan, Technical Engineer, M/s Newreeliya Soft Tech

Pvt.Ltd., Coimbatore

In the afternoon session Mr.K.Balamurugan gave an “Hands on training using Arduino, raspberry pi”. Hands on training session was provided which make a vivid understanding about the system, sensors and techniques by practical knowledge. The most exciting and practical learning day for the participants as they practised the Arduino, raspberry pi on the systems themselves under the guidance of Mr.K.Balamurugan.



Hands on training on “Internet of Things” by Mr.K.Balamurugan in motion

Date: 24th April 2018

Technical Session: 11

Department : Civil Engineering

Topic: Soft Skill Development

Resource Person:Pon. Rathnavel, Associate professor, Akshaya College of Engineering & Technology, Coimbatore

Effective means of teaching is necessary for gaining 100% attention throughout the class duration. Communication and body language is the main source of delivering lectures. With this background PON.Rathnavel gave a talk on “Soft Skill Development”. About 16 members attended the programme. He discussed and shared his experiences regarding the Acronyms, Time management, Team work, Teaching and evaluation and communication. At the end of the session the following outcomes were gained.

1. Good Attitude
2. Knowledge about New teaching methodologies
3. Knows the importance of Time management
4. Human Resource and personal management



PON.Rathnavel on “Soft Skill Development”

Date: 24th April 2018

Technical Session: 12

Department : Civil Engineering

Topic: Building and Land Valuation

**Resource Person:Mr.R.Anandha Raj, Consulting Engineer & Approved Valuer,
Coimbatore**

A wide knowledge is required in building valuation for bank loans. There are several opportunities available for building valuation. In future the students can be trained by the faculties for getting LBS. In order to provide training faculties were allowed to interact with **Mr.Ananda Raj**, Consulting Engineer & Approved Valuer on “Building and Land Valuation”. The key points discussed were about boundaries, Roadways, Real estate, Land valuation, valuation for residential, industrial and educational buildings, Losses in building and about the factors to be considered in valuation.

At the end of the session extra knowledgewas gained on the following areas Identifying building types, location, materials used in building construction, property identification, surveying and land marking.



Session in motion by Mr.Ananda Raj on “Building and Land Valuation”.

Date: 24th April 2018

Technical Session: 13

Department: Computer Science and Engineering

Topic: Mobile application Development

**Resource Person: Ms.N.Narmadha, Technical Head, M/s Newreeliya Soft Tech Pvt.Ltd.,
Coimbatore**

In the second day 24-4-2018, Ms.N.Narmadha, was the resource person for both the forenoon and afternoon session and about 26 faculty members of CSE and computer science departments attended the programme. In the morning session she gave a talk on “Mobile application Development” and in the afternoon session she gave an “Hands on training using Android Studio”.

Mobile application Development programme gives an introduction to the growing field of mobile applications with focus on the Android platform as a prototyping platform, so in association with faculty development programme on android application was useful to the Faculty members of CSE which is explained by Newareeliya Pvt Ltd resource person Ms.N.Narmadha. Android is a software stack for mobile devices that includes an operating system, middleware and key applications. The Android SDK provides the tools and APIs necessary to begin developing applications on the Android platform using the Java programming language. With this programme the Faculty members gained knowledge about

- Installing the SDK Creating Android Emulator
- Installing Android Development Tools
- Choosing which Android version to use



The Session on “Mobile application Development” by Ms.N.Narmadha in motion

Date: 24th April 2018

Technical Session: 14

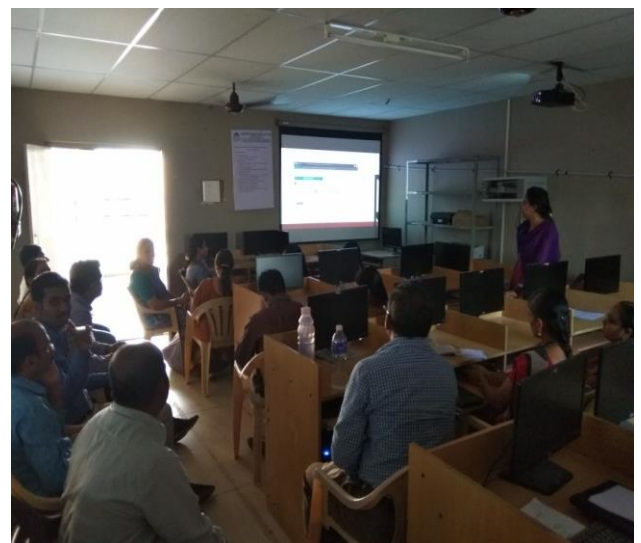
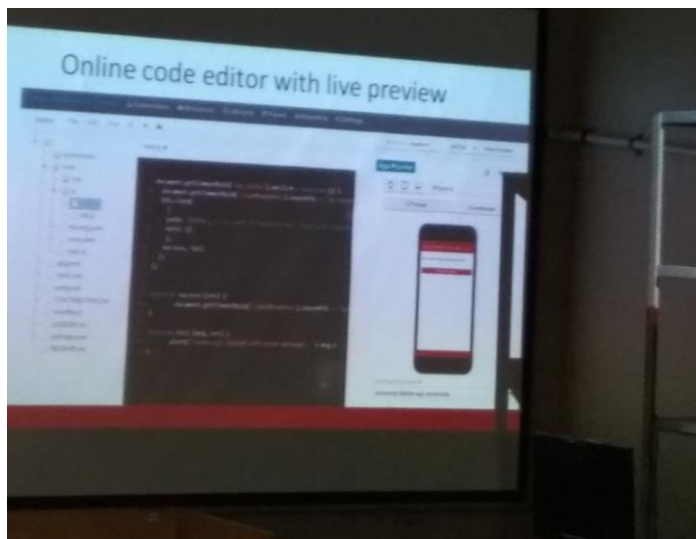
Department: Computer Science and Engineering

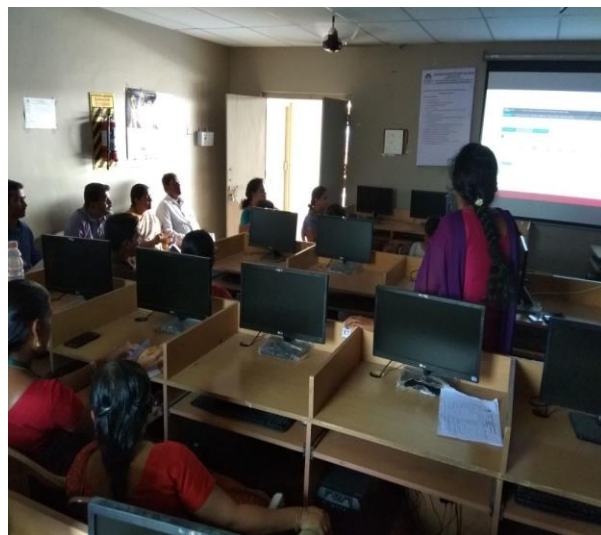
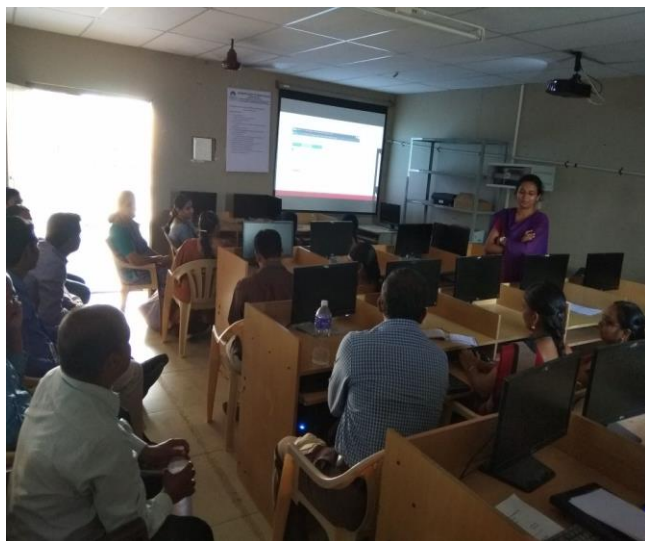
Topic: Hands on training using Android Studio

**Resource Person: Ms.N.Narmadha, Technical Head, M/s Newreeliya Soft Tech Pvt.Ltd.,
Coimbatore**

The Faculty development program covers an introductory mobile application development for the Android Operating System using XML and Java and it includes developing simple applications that could run on Android phones and tablets and provides an clear vision in Android application development phases, terminologies, application design, and coding. Importance of Android stack such as

- Linux kernel
- Native libraries
- Dalvik
- App framework
- Apps





The Hands on training using Android Studio in Progress

Date: 24th April 2018

Technical Session: 15

Department: Microbiology

Topic: Recent Advancement on Lifescience Research

Resource Person: Dr. Mohamad Illias, Professor, Bharathidasan University, Trichy

On 24-4-18 Dr. Mohamad Illias, delivered the special talk on “Recent Advancement on Lifescience Research” He explained the concept of “Teaching and Research- A Blended Balance. Here he added and discussed about the core value of the good teacher. He has suggested very good weblinks and software websites to improve the teaching with the subject knowledge. About 33 faculty members attended the programme.



Dr.MohamadIllias for “Teaching and Research- A Blended Balance

Date: 24th April 2018

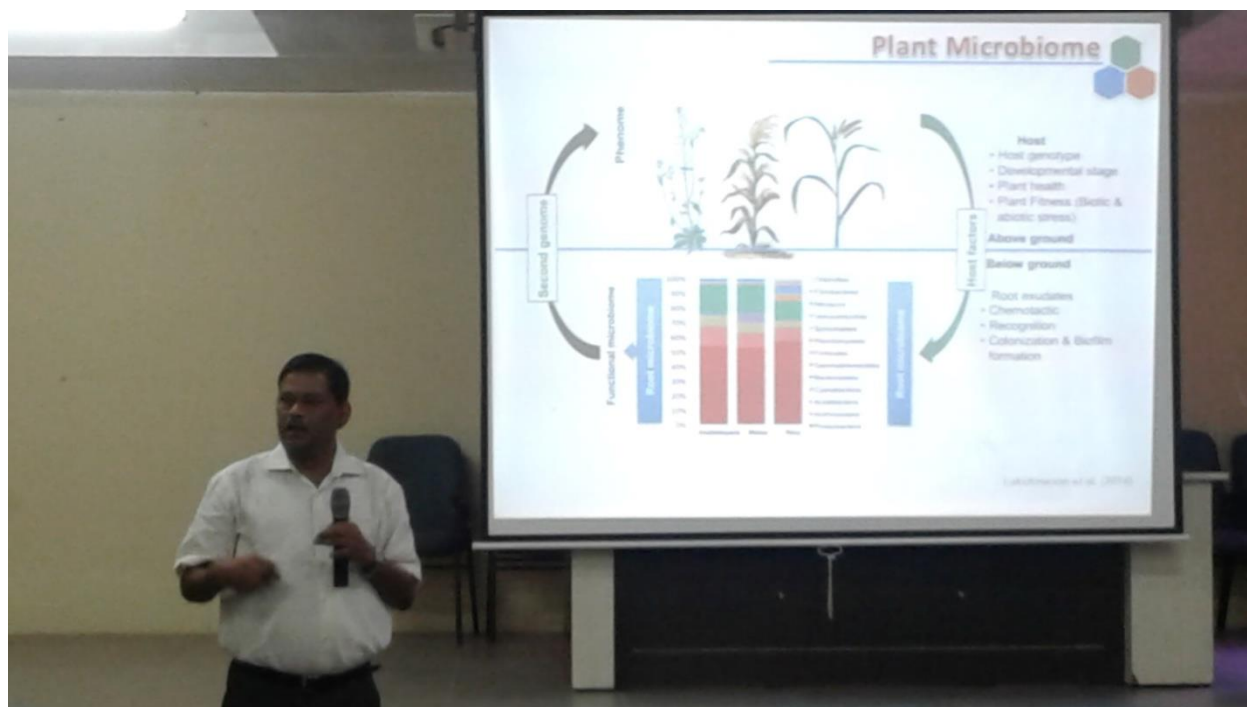
Technical Session: 16

Department: Microbiology

Topic: Formulation of biofertilizer

Resource Person:Dr.K.Kumar, Adviser, Tropical Biosciences, Coimbatore

In the afternoon session Dr.K.Kumar, Adviser, Tropical Biosciences, Coimbatore shared his experience on biofertilizers with the faculty members. He discussed about the microbial resource for soil management and crop yield, Plant Vs human microbiome, plant microb positive interaction, nutrient value, mycorrhizal inoculants development method and future inoculants techniques



Dr.K.Kumar's experience with Biofertilizers.

Date: 24th April 2018

Technical Session: 17

Topic: Quality Methods in Evaluation

Resource Person: Dr.M.G. Sethuraman, Professor, Department of Chemistry, Gandhigram Rural Institute (Deemed to be University), Gandhigram, Tamilnadu.

On 25th of April 2018, Dr.M.G. Sethuraman, gave a talk on “Quality Methods in Evaluation”. About 100 Faculty members participated in the programme.

He stated that valuation of the answer books requires care, patience and time. The valuation of the scripts should not be done in hurry. Counting and marking of answer books, marking of sub parts, signature of the examiner should be done carefully. At the time of valuation, examiner should give marks in margin area and also complete the front page entries with clarity. Extra leniency or strictness should be avoided. This results in huge difference in marking pattern within a group of examiners for the same subject. Often it is observed that there is large difference in marks obtained in revaluation during review process. Further he explains about the Ph.D valuation, question paper malady and the needed reforms in evaluation.



Last but not the least when the house was open for questions the academicians were keen to ask and with the same level of enthusiasm they were justifiably answered by professor.

Date: 25th April 2018

Technical Session: 18

Department: Electrical and Electronics Engineering

Topic: Basics of Programmable Logic Controller

Resource Person: Er. J. Jijo Christo, Sr. Application Engineer, M/s. Axis Global Automation, Coimbatore

In the Department of Electrical and Electronics Engineering Department FDP was carried out on 25th April 2018 and 26th of April 2018 under the title “Basics of Programmable Logic Controller”. Er. J. Jijo Christo, Sr. Application Engineer, M/s. Axis Global Automation, Coimbatore is the resource person for both the days. About ten faculty members attended the programme. On 25th April 2018 in the morning session he gave an introduction to Automation, why we need Automation and about Evolution in industrial Automation.



Er. J. JijoChristo explaining “Basics of Programmable Logic Controller”.

Date: 25th April 2018

Technical Session: 19

Department: Electrical and Electronics Engineering

Topic: Basics of Programmable Logic Controller

Resource Person: Er. J. Jijo Christo, Sr. Application Engineer, M/s. Axis Global Automation, Coimbatore

In the Afternoon session **Er. J. Jijo Christo** discussed about the different type of Industrial Control mechanisms, Introduction to PLCs and Relay logic. The most exciting and practical learning session for the participants as they practised the logic controllers themselves under the guidance of the resource person.

On 26th of April 2018 Er. J. Jijo Christo explained about the advantages over Microcontrollers, areas of applications and about control circuits. In the afternoon session he explained about Ladder Logic Diagram (LLD), LLD-DOL starter, Star Delta starter, Motor Forward/Reverse Operation. There was a Hands on training session in the afternoon.



Hand's on training about theProgrammable Logic Controller

Date: 25th April 2018

Technical Session: 20

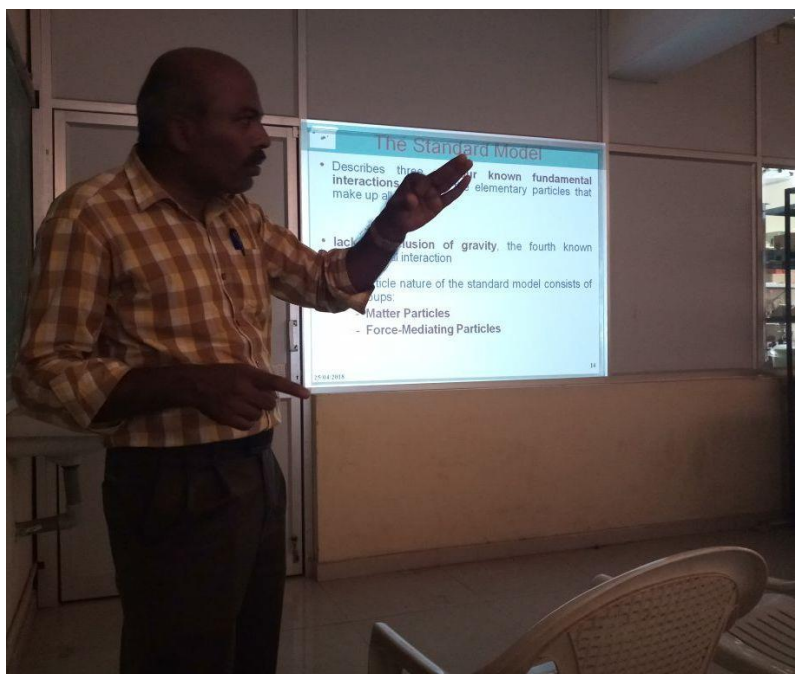
Department: Physics

Topic: The God's Particle

Resource Person:Dr.C. Hariharan, Assistant Professor, PG & Research Department of Physics, Jamal Mohammed College, Trichy

On 25th April 2018Dr.C. Hariharan, gave a talk on "The God's Particle". About 17 faculty members participated in the programme. The highlights of the talk were on

1. Evolution of Universe
2. Fundamental force and interaction
3. Importance of elementary particles, nucleon structure, high energy and physics labs
4. Big Bang theory and Quantum chromo dynamics
5. Gravitational wave observatory
6. Spinless particle: Higg's Boson and
7. Relation between science and Philosophy.



Dr.C. Hariharan on “The God’s Particle” in motion

Date: 25th April 2018

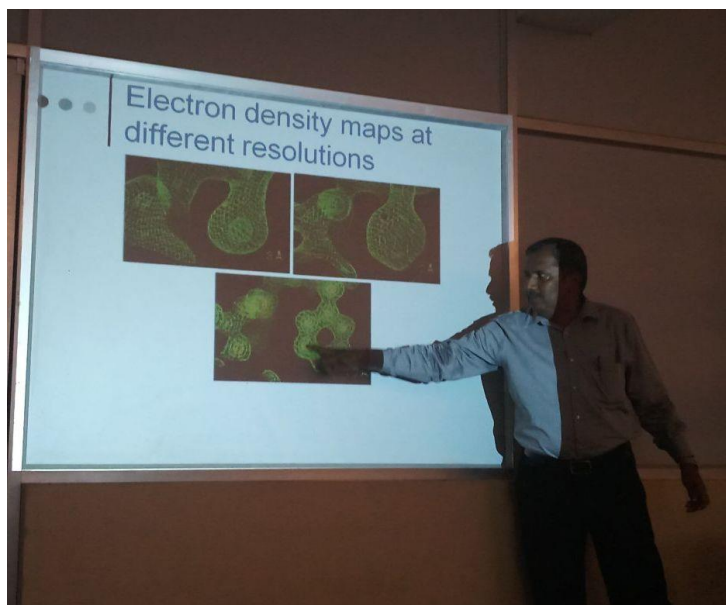
Technical Session: 21

Department: Physics

Topic: Structural studies on Biomolecules/Biomaterials

**Resource Person: Dr.K.Paneerselvam, Assistant Professor, Department of Physics,
Government Arts College, Kumbakonam, Tamilnadu**

Dr.K.Paneerselvam, in the afternoon session delivered a talk on “Structural studies on Biomolecules/Biomaterials”. About 17 faculty members participated in it. He explained how to determine the structure of macromolecules, basics of crystallography, protein crystals, electron density map at different resolution, fitting amino acid residues into the electron density map, amino acids basics and its types, DNA structure and refinement statistics. This workshop has created a sense of justification among the learners and they are looking forward to do research write and read the research papers or undertake some research project.



Dr.K.Paneerselvam delivering a talk on “Structural studies on Biomolecules/Biomaterials”

Date: 25th April 2018

Technical Session: 22

Department: Biotechnology

Topic: Innovations in Nanotechnology fueling Development

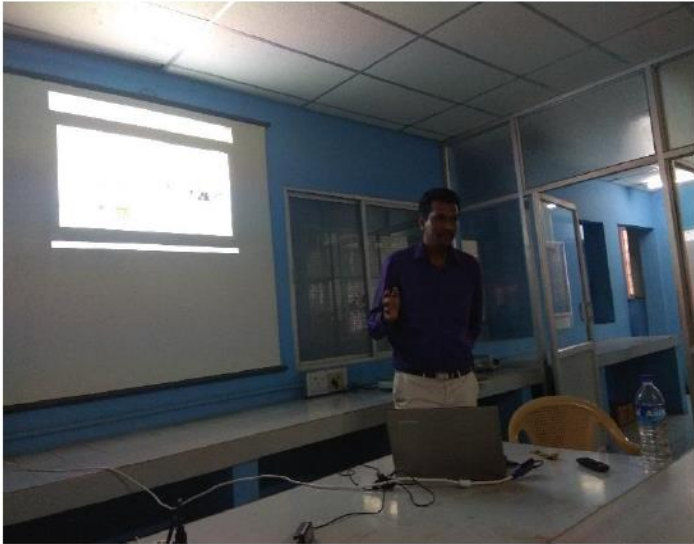
Resource Person: Dr.S.C.G.Kiruba Daniel, JKN NanosolutionsPvt. Ltd. No. 137, Ashrya Layout, Vidyanranyapura P.O. Veersagara, Bengaluru

Dr.S.C.G.Kiruba Daniel, on 25th of April 2018 gave a talk on “Innovations in Nanotechnology fueling Development” in the morning session and on “Applications and case studies of Nanotechnology” in the evening session.

All the faculty members have gained more ideas for converting a simple idea of diversified research into a useful product for the society.

Faculty members have obtained excellent inputs and knowledge about the different levels of nanoparticle applications and its potential in the future research.

The participants found that even within a short span of time a valuable product can be obtained with novel ideas.



The session in motion by Dr.S.C.G.Kiruba Daniel

Date: 25th April 2018

Technical Session: 23

Department: Biotechnology

Topic: Innovations in Nanotechnology fueling Development

Resource Person: Dr.S.C.G.Kiruba Daniel, JKN NanosolutionsPvt. Ltd. No. 137, Ashrya Layout, Vidyanranyapura P.O. Veersagara, Bengaluru

This workshop has created a sense of justification among the learners and they are looking forward to do research write and read the research papers or undertake some research project.

Date: 25th April 2018

Technical Session: 24

Department: Management

Topic: Environmental Management and Sustainable Development

Resource Person: ,Dr. Sanjay Banerje, Professor, Amirta University, Coimbatore

The Department of Management had their FDP on 25th April 2018 and 26th of April 2018. On 25th April 2018, Dr. Sanjay Banerje, Professor, Amirta University, Coimbatore was the Resource person and delivered a lecture on “Environmental Management and Sustainable Development”. Resource Person Dr. Sanjay Banerje in his lecture, explained the need to have a better understanding of the multidisciplinary interrelationships between sustainable development, human health and the environment. Specific emphasis was placed on globalization and sustainable growth, bioethics and poverty, organizational performance and sustainability, environmental management and individual progress, human and ecosystem health, and water resources and recycling. Faculty Development Programme on Environmental Management and

Sustainable Development had provided the participants an insight and awareness on environmental management. About 17 faculty members participated in the programme.



Participants listening to lecture of Dr. Sanjay Banerje, Prof, Amirta University, Coimbatore

Date: 25th April 2018

Technical Session: 25

Department: Management

Topic: Exponential Learning

Resource Person: Mr.Francis Xavier, Director, Outbound Training Academy, Coimbatore

In the afternoon session Mr.Francis Xavier, Director, Outbound Training Academy, Coimbatore was the resource person and he gave a talk on “Exponential Learning”. About 17 faculty members participated in the programme. Mr.Francis Xavier, Director, Outbound Training Academy, in his lecture he shared his first-hand experience with the participants. He provided a valuable tips for enhancing skills and knowledge of participants in their academic and personal life.

Date: 26th April 2018

Technical Session: 26

Department: Physics

Topic: Renewable and Solar Cells Fundamentals

Resource Person: Dr.S.Arumugam, Professor, Department of Physics, Gandhigram Rural Institute (Deemed to be University), Gandhigram, Tamilnadu.

On 26th April 2018, morning session started with an invited talk by Dr.S.Arumugam, giving a talk on “Renewable and Solar Cells Fundamentals”. About 27 faculty members attended the programme. He shared his experience and knowledge on constructing the solar pond in Pondicherry. He also explained about power generation using environmental friendly energy sources like hydrogen based Resources, storage devices such as batteries, ultra capacitors and flywheels.



Dr.S.Arumugam explaining about “Renewable and Solar Cells Fundamentals”

Date: 26th April 2018

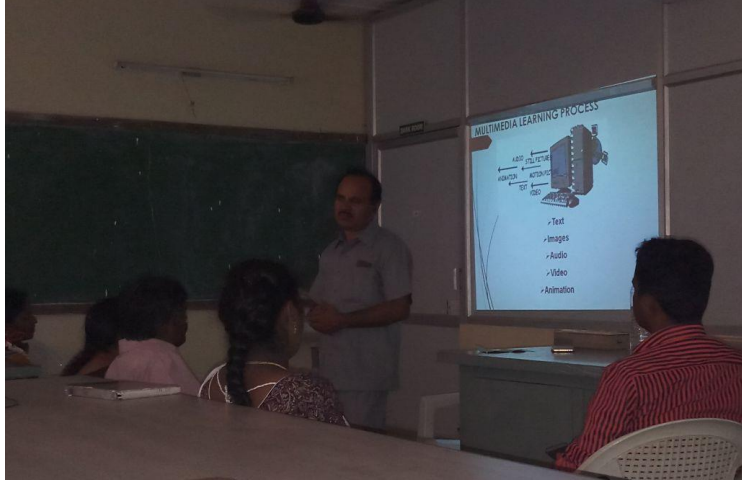
Technical Session: 27

Department: Physics

Topic: Methods of Teaching

Resource Person: Dr.S.Muruganand, Assistant Professor, Department of Electronics and Instrumentation, Bharathiar University, Coimbatore

Afternoon session started with a lecture on “Methods of Teaching” by Dr.S.Muruganand, and 27 Faculty members participated in the programme. He explained the methods of Teaching Physical Science, merits and demerits of lecture method. He analysed the traditional methods of teaching and its limitations, latest innovations in lectures, mind mapping, how to achieve effective learning in Physics importance of teaching with sense of humour.



A session on “Methods of Teaching” by Dr.S.Muruganand

Date: 26th April 2018

Technical Session: 28

Department: Bio-Medical Engineering

Topic: Bio-Control System

Resource Person: Dr.B.Padmapriya, Associate Professor, Department of Bio-Medical Engineering, PSG College of Technology, Coimbatore

In the Bio-Medical Engineering Department, the FDP was conducted on 26th of April 2018. In the morning session Dr.B.Padmapriya, Associate Professor, Department of Bio-Medical Engineering, PSG College of Technology, Coimbatore gave a talk on “Bio Control System”.

Date: 26th April 2018

Technical Session: 29

Department: Bio-Medical Engineering

Topic: Bio-Signal Processing

Resource Person: Dr.B.BanuRekha, Associate Professor, Department of Bio-Medical Engineering, PSG College of Technology, Coimbatore

In the Afternoon session Dr.B.BanuRekha, Assistant Professor(Senior grade), PSG college of Technology delivered a lecture on Bio-signal Processing”. About 15 faculty members attended the programme.

Date: 26th April 2018

Technical Session: 30

Department: Bio-technology

Topic: Observations- A lead to research

Resource Person: Dr.A.Gnanamani, Principal Scientist, Biological Material Laboratory, CSIR, Central Leather Research Institute, Chennai

On 26th of April 2018 Dr.A.Gnanamani, Principal Scientist, Biological Material Laboratory, CSIR, Central Leather Research Institute, Chennai delivered a lecture on “Observations- A lead to research”.

The resource personals delivered their talk starting from the basics and moved on to the advancement in the field of synthesis, applications which made to approach a problem of research and solve it with an outcome of useful products. The participants were motivated to observe their research progress so that they can find more interesting innovations from their work which would be a lead to a new dimension of research. The faculties discussed their conceptual ideas with the resource personal and conquered confidence in their field of specialization.



Date: 26th April 2018

Technical Session: 31

Department: Bio-technology

Topic: Applications of Life Science in Defence Sector

Resource Person: Dr.K.Kathirvelu, Joint Director, DRDO-BU Centre of Life Sciences, Bharathiar University, Coimbatore

In the Afternoon Dr.K.Kathirvelu, Joint Director, DRDO-BU Centre of Life Sciences, Bharathiar University, Coimbatore gave a talk on “Applications of Life Science in Defence Sector”.

Date: 26th April 2018

Technical Session: 32

Department: Management

Topic: e-Retailing

Resource Person: Dr.R.MaryMetilda, HOD, Department of Management, Sri Ramakrishna Engineering College, Coimbatore

On 26th April 2018, in the morning session Dr.R.MaryMetilda, talked about “e-Retailing”. Dr.R.MaryMetilda, in her lecture, she illustrated the importance, pros and cons of e-retailing with lively examples. About 17 faculty members participated in the programme.

Date: 26th April 2018

Technical Session: 33

Department: Management

Topic: Investment in Mutual Funds

Resource Person: Mr.N.Mahesh, Visiting Faculty, Annamalai Capital Market Services Ltd., Coimbatore,

In the afternoon session, Mr.N.Mahesh, gave a talk on “Investment in Mutual Funds”. Resource Person Mr.N.Mahesh, in his lecture, discussed the importance of investment and investment alternatives. He explained the process of making investment in mutual fund. He clarified the doubts of the participants about investment in investment alternatives. About 17 faculty members participated in the programme.



Mr.N.Mahesh, explains investment in Mutual Fund

Date: 26th April 2018

Technical Session: 34

Department: Electrical and Electronics Department

Topic: Basics of Programmable Logic Controller

Resource Person: J. Jijo Christo, Seniro Application Engineer, Axis Global Institute of Industrial Training Engineering Consultant in Coimbatore

On 26th of April 2018 Er. J. Jijo Christo explained about the advantages over Microcontrollers, areas of applications and about control circuits.



Hand's on training about the Programmable Logic Controller

Date: 26th April 2018

Technical Session: 35

Department: Electrical and Electronics Department

Topic: Basics of Programmable Logic Controller

Resource Person: J. Jijo Christo, Seniro Application Engineer, Axis Global Institute of Industrial Training Engineering Consultant in Coimbatore

In the afternoon session he explained about Ladder Logic Diagram (LLD), LLD-DOL starter, Star Delta starter, Motor Forward/Reverse Operation. There was an Hand's on training session in the afternoon.

Date: 27th April 2018

Technical Session: 36

Department: Biochemistry

Topic: Cell mediated immunity – A mechanistic perspective

Resource Person: Dr.E.M.Shankar, Associate Professor and Head, Department of Life Sciences, Central University of Tamilnadu, Tiruvarur

In the Department of Biochemistry, the FDP was conducted on 27th of April 2018. On 27th of April 2018, Dr.E.M.Shankar, was the resource person and he delivered a talk on “Cell mediated immunity – A mechanistic perspective”. About 28 faculty members attended the programme.

Cell-mediated immune responses are key to effective clearance of microbial antigens in the human host following invasion. Cell-mediated immune responses are initiated following recognition of microbial particles by antigen-presenting cells via pattern recognition receptors (PRR), or opsonization and presenting the processed antigen-derived peptides to naive T lymphocytes (Th0 cells) leading to their activation. Activation of Th0 cells leads to expansion of the cells into either of Th1/Th2 or Th17 cells depending on the nature of the antigen presented and the polarizing cytokine involved in such expansion. The expanded T cells produce key signature cytokines that necessitates the functional aspects of cellular immune responses, which at times, could be sub-optimal, optimal or exaggerated, the later characteristic resulting in adverse immune responses. Such exaggerated immune responses are often regulated by regulatory T cells or anti-inflammatory cytokines, especially IL-2, IFN γ , IL-10, and TGF- β that offsets deleterious immune responses following antigen clearance. Primarily, the lecture covered on the advancement in the basic understanding of cell mediated immune response and various stages of T cell development. The role of B cell- T cell interaction and its implication in T Cell activation was discussed in detail. Various drugs that target the T-cell receptor (TCR) were also discussed.

Date: 27th April 2018

Technical Session: 37

Department: Biochemistry

Topic: Cell mediated immunity – A mechanistic perspective

Resource Person: Dr.E.M.Shankar, Associate Professor and Head, Department of Life Sciences, Central University of Tamilnadu, Tiruvarur

In the afternoon session The talk covered the regulatory roles of cytokines on T cell function, antigen processing and elimination. Further, the talk covered the diseases with impairment in cell mediated immunity and various drugs that are used to improve cell mediated immunity. Faculties raised several clarifications on the topic and expressed utmost satisfaction.



Date: 27th April 2018

Technical Session: 38

Department: Mechanical Engineering

Topic: Advanced Manufacturing Process

**Resource Person: Dr.R.Thirumalai, Professor, Department of Mechanical Engineering ,
Dr.NGP Institute of Technology, Coimbatore**

Dr.R.Thirumalai shared his views with the faculty on the theme of “Advanced Manufacturing Process”. Initially he focussed on the Optimization-basics, Optimization-types and Taguchi method. Second point he discussed was about Advanced optimisation techniques (Cuckoo search algorithm, Ant colony algorithm, Bee colony algorithm and genetic algorithm). Thirdly he emphasised on the introduction to Minitab 16 software and Machining process optimisation through Minitab 16 software. He made the session interactive and based on various examples for better understanding.

Date: 27th April 2018

Technical Session: 39

Department: Mechanical Engineering

Topic: Engineering Mechanics

Resource Person: Dr.M.Shanmugaraja, Professor and Head, Department of Automobile Engineering , SNS College of Technology, Coimbatore

Dr.M.Shanmugaraja, has delivered a interactive lecture on “Engineering Mechanics” where he discussed about engineering Mechanics, Basic principles, kinetics, kinematics, dynamics and failure theory. In this session participants realized the significance of Engineering mechanics.

when the house was open for questions the academicians were keen to ask and with the same level of enthusiasm they were justifiably answered by professor.

Date: 27th April 2018

Technical Session: 40

Department: Electronics and communication Engineering

Topic: Internet of things

Resource Person:Mr. Jerold, Renojoy Auto Care Pvt. Ltd., Coimbatore

In the Electronics and communication Engineering Department, the FDP was conducted on 27th April 2018 and 28th April 2018. Mr. Jerold, Renojoy Auto Care Pvt. Ltd., Coimbatore was the resource person on 27th April 2018 and discussed about the topic “Internet of things”.

Date: 27th April 2018

Technical Session: 41

Department: Electronics and communication Engineering

Topic: Internet of things

Resource Person:Mr. Jerold, Renojoy Auto Care Pvt. Ltd., Coimbatore

In the afternoon session Mr. Jerold explained the applications of Internet of things

Date: 27th April 2018

Technical Session: 42

Department: English

Topic: English Language Teaching

Resource Person:Dr.P.Nagaraj, Asst. Professor, Department of English, Bharathiar University, Coimbatore.

In his talk he has highlighted that an effective teacher of English as someone who possesses

1. Imagination
2. Innovativeness
3. Interaction
4. Independent thinking

5. Interdependence Imagination

He also focussed that A teacher who is imaginative can do wonders in the English class. An innovative teacher dares to go off the track in order to be on the track. A teacher who promotes interaction in the English class does justice to their profession by empowering learners and helping them develop their communication skills. Taking students from dependent stage to independent stage and then to interdependent stage is very important.

Date: 28th April 2018

Technical Session: 43

Department: Biochemistry

Topic: Pharmacogenomics and personalized Medicine

Resource Person: Dr.P.R. Padma, Professor and Head, Department of BC, BT & BI, Avinashilingam Institute for Home Science and Higher Education, Coimbatore

On 28th April 2018, in the morning session Dr.P.R.Padma was the resource person and she delivered a talk on “Pharmacogenomics and personalized Medicine”. In her talk she explained that personalized Medicine is

- Immunologically, personalized self-molecules / medicines are better tolerated than other therapies
- Tissue engineering – coercing own cells to rebuild damaged tissues – is another area that will potentially benefit



Date: 28th April 2018

Technical Session: 44

Department: Biochemistry

Topic: Free radicals in Health Research

**Resource Person: Dr.R.Basker, Associate Professor, Department of Biotechnology,
Kumaraguru College of Technology, Coimbatore**

In the afternoon session, Dr.R.Basker, Associate Professor, Department of Biotechnology, Kumaraguru College of Technology, Coimbatore was the resource person, and delivered a talk on “ Free radicals in Health Research”. About 15 Faculty members attended the programme.

He insisted that In healthy individuals, a delicate balance exists between free radicals and antioxidants. The unbalance between the oxidant species and the antioxidant defense system may trigger specific factors responsible for oxidative damage in the cell: over-expression of oncogene genes, generation of mutagen compounds, promotion of atherogenic activity, senile plaque occurrence or inflammation. This leads to cancer, neurodegeneration, cardiovascular diseases, diabetes, kidney diseases. Recent advances on the specific mechanism of action of the most important representatives of each antioxidant class (endogenous and exogenous) in preventing or inhibiting etiological factors leading to oxidative injury in the cell was discussed.



Date: 28th April 2018

Technical Session: 45

Department: Electronics and communication Engineering

Topic: Mixed Signal Design

Resource Person:Dr. P.T. Vanathi, Associate Professor, PSG College of Technology, Coimbatore

On 28th April 2018, Dr. P.T. Vanathi, Associate Professor, PSG College of Technology, Coimbatore was the resource person and delivered a talk on “Mixed Signal Design”. About 11 faculty members attended the programme.

Date: 28th April 2018

Technical Session: 46

Department: Electronics and communication Engineering

Topic: Mixed Signal Design

Resource Person:Dr. P.T. Vanathi, Associate Professor, PSG College of Technology, Coimbatore

On 28th April 2018, Dr. P.T. Vanathi, Associate Professor, PSG College of Technology, Coimbatore was the resource person in the afternoon session and delivered a talk on “Mixed Signal Design”. About 11 faculty members attended the programme.

Date: 28th April 2018

Technical Session: 47

Department: Mechanical Engineering

Topic: Automotive Electronics

Resource Person:Dr.V.M.Murugesan, Associate Professor, Department of Automobile Engineering, PSG College of Technology, Coimbatore.

Dr.V.M.Murugesan, initially he emphasised on the basic principles of engine, Engine-nomenclature, Engine-specifications and engine types. Secondly he discussed about the Fuel Injection systems (CRDI and MPFI). Finally he focussed on the Turbo Charger, Carburetor and Emission norms. The session was very much informative. The discussed area was of great benefit for the participants as the topics match with the current working domain.

Date: 28th April 2018

Technical Session: 48

Department: Mechanical Engineering

Topic: Advanced Manufacturing Processes

Resource Person:Dr.R.Thirumalai, Professor, Department of Mechanical Engineering , Dr.NGP Institute of Technology, Coimbatore

Dr.R.Thirumalai, in this session focussed on three areas

1. Seven wastes in Lean Manufacturing
2. Lean manufacturing Tools
3. Design of Experiments through Minitab 16

In the first area he discussed on overproduction, Inventory, Motion, defects, over-processing, waiting and transport. In the second area he emphasised on total productive maintenance, 5S, Kanban and Kaizen. Finally he ended with discussing the design of Experiments through Minitab 16.

Date: 28th April 2018

Technical Session: 49

Department: B.Tech Biotech

Topic: Immuno Oncology

Resource Person:Dr.V. Vijaya Padma, Professor & Head, Department of Biotechnology, Bharathiar University, Coimbatore

Department of B.Tech Biotechnology had its FDP Programme on 28th April 2018, 3rd and 4th of May 2018. On the first day Dr.V. Vijaya Padma, Professor & Head, Department of Biotechnology, Bharathiar University, Coimbatore delivered a lecture on “Immuno Oncology”. About Nine faculty members attended the programme. The key points discussed in the session were Cancer identification, Various methods used for treatment of cancer, Identification methods, Importance of study of immune system and how immuno Oncology is unique in fighting against cancer. At the end of the programme the faculty members felt that the following were gained.

1. Methods used in targeting the cancer cell
2. Different types of cancer treatment approach
3. Cancer and immune response
4. Immuno Therapy (old and new methods)

Date: 30th April 2018

Technical Session: 50

Topic: Implementation of Digital Initiatives

Resource Person:Dr.M.Palaniswamy, Dean (FASH), KAHE, Coimbatore

On 30th of April 2018, FDP was conducted on “Implementation of Digital Initiatives” in Karpagam Academy of Higher Education. Dr.M.Palaniswamy, Dean (FASH) acted as the resource person. All deans, HOD’s and IQAC Coordinator were the participants of the programme. The following points were discussed in the programme

1. Students involvement in NPTEL and SWAYAM courses
2. SWAYAM PRABHA channel (telecast high quality educational programmes through DTH channels)

3. Unnat Bharat Abhiyan (is a Ministry of Human Resource Development, Government of India programme to uplift rural India)
4. Swachh Bharat Abhiyan is a campaign in India that aims to clean up the streets, roads and infrastructure of India's cities, smaller towns, and rural areas.
5. National Academic Depository
6. National Digital Library

Date: 2nd May 2018

Technical Session: 51

Topic: Intellectual Property Rights

Resource Person:Dr.Hari Prasad, Assistant Professor, Department of Biochemistry, Karpagam Academy of Higher Education, Coimbatore.

On 2nd May 2018, a session on “Intellectual Property Rights” was conducted in the Faculty Development Programme. Dr.Hari Prasad, Assistant Professor, Department of Biochemistry, Karpagam Academy of Higher Education was the resource person.

In today’s globally competitive environment, intellectual property has placed itself on a pedestal in the context of economic growth and is becoming increasingly important. In this regard IPR Cell conducted this awareness programme as the part of FDP. It created an awareness among the creative and innovative Faculty members on the Intellectual Property Rights importance and utilization of the IP that is an asset to the to the academicians and public in general. The programme provided information on intellectual property among the developer, author, or inventor (the originator), the Institute. Overall it encouraged faculties at all levels to develop patentable technologies.



The session on Intellectual Property Rights (IPR) by Dr.Hariprasad in Progress

Date: 3rd May 2018

Technical Session: 52

Department: B.Tech Biotech

Topic: Chemical and biochemical applications of thermodynamics

Resource Person:Dr.C.Gomadurai, Associate Professor, Department of Chemical Engineering, Kongu Engineering College Erode

On 3-5-2018, in the morning session Dr.C.Gomadurai, Associate Professor, Department of Chemical Engineering, Kongu Engineering College Erode delivered a lecture on “Chemical and biochemical applications of thermodynamics”. About eight faculty members participated in the programme. The key points discussed in the session were basics of thermodynamics, key terms and its definition, importance of thermodynamics, application of thermodynamics in chemical engineering and application of thermodynamics in biochemical engineering. The faculty members were benefitted out in the following

1. Way of delivering the concepts to the students
2. The correct works of thermodynamics
3. Importance of thermodynamics.

Date: 3rd May 2018

Technical Session: 53

Department: B.Tech Biotech

Topic: Funding opportunities for young investigators

Resource Person: Dr.N.Saraswathy, Professor, Department of Biotechnology, Kumaraguru college of Technology, Coimbatore

In the afternoon session, **Dr.N.Saraswathy**, discussed about “**Funding opportunities for young investigators**” About 8 faculty members participated the programme. Dr.N.Saraswathy discussed about the funding agencies, Young investigators funds and awards, importance of publications in obtaining funds, different levels in obtaining funds and about funds for career development. After the session the following outcomes were gained by the faculty members

1. To access different funds
2. Types of funds for budding research scholars
3. Importance of publication
4. Overall need of research grants and funds.

Date: 3rd May 2018

Technical Session: 54

Department: Mathematics

Topic: Differential Equations- classical to Fractional”.

Resource Person: Dr.K.Balachandran, Professor in Mathematics, Bharathiar University, Coimbatore

The Department of Mathematics conducted their Faculty Development programme on 3rd and 4th May 2018. The faculty members of S & H department of Faculty of Engineering also joined with them. On 3rd May 2018 Dr.K.Balachandran, talked about “Differential Equations- classical to Fractional”. About 16 Faculty members attended the programme. The important topics covered in the programme were as follows

- a. Relation between Newton’s Laws and Mathematical Modelling
- b. The different types of fractional equations like caputo fractional derivatives, sequential fractional derivatives, R.L. Fractional derivative
- c. The basic techniques for the differential equations

Date: 3rd May 2018

Technical Session: 55

Department: Mathematics

Topic: Differential Equations- classical to Fractional”.

Resource Person:Dr.K.Balachandran, Professor in Mathematics, Bharathiar University, Coimbatore

Dr.K.Balachandran, continued in the afternoon session with the same topic. He made the session interactive and based on various examples for better understanding of the academicians. In this session participants gathered knowledge on

- a. The Qualitative behaviour like stability, controllability, observability with examples
- b. Classification of differential equations and the different types of solution for the basic differential problems.



A session in motion on “Differential Equations- classical to Fractional” by Dr.K.Balachandran

Date: 3rd May 2018

Technical Session: 56

Department: Electronics

Topic: Digital Image processing techniques in Biomedical Applications and extraction of various types of signals”

Resource Person:Dr.N.Sivanandan, Associate Professor, Department of Electronics, PSG College of Arts and Science, Coimbatore.

On 3rd of May 2018, the FDP was conducted in the Department of Electronics and the resource person is Dr.N.Sivanandan. About 17 faculty members attended the programme. He delivered a talk on “Digital Image processing techniques in Biomedical Applications and extraction of

various types of signals”. He pointed out the classification of signals and brain signal processing. He also noted the physical mechanism of EEG signals and various noise cancellation methods for the reproduction of original signals.



Dr.N.Sivanandantalk on “Digital Image processing techniques in Biomedical Applications and extraction of various types of signals”



Faculty members of Electronics Department in the Faculty Development programme

Date: 3rd May 2018

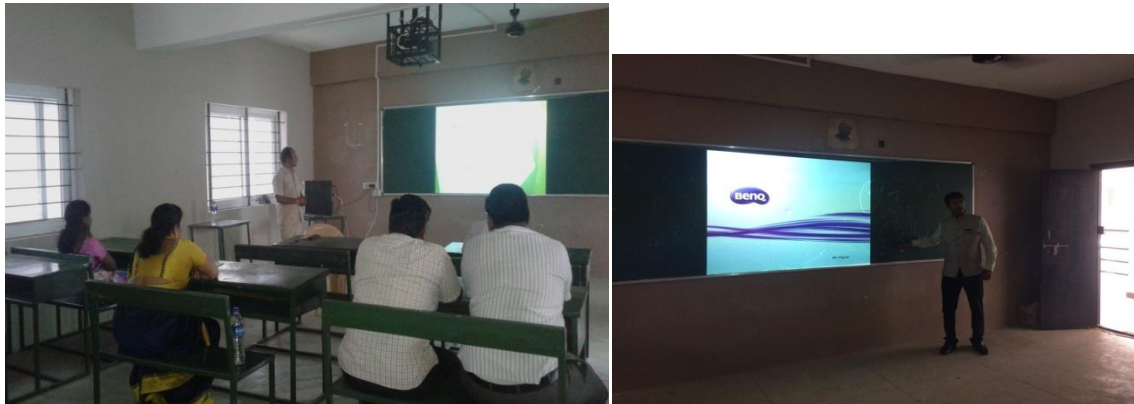
Technical Session: 57

Department: Electronics

Topic: “Micro Electro Mechanical Systems

Resource Person:Dr.S.Muruganand, Assistant Professor, Department of Electronics and Instrumentation, Bharathiar University, Coimbatore.

In the afternoon session Dr.S.Muruganand, gave a talk on “Micro Electro Mechanical Systems”. About eight faculty members attended the programme. He explains about the uses of MEMS technology in Industrial areas. He also explains about the different types of Micro Sensor in the field of biomedical industries and home application. He further explained on-going research in the field of MEMS.



FDP in Progress in Department of Electronics

Date: 3rd May 2018

Technical Session: 58

Topic: Disaster Management

Resource Person:Mr.K.Murthi, Retired Southern Railways Technical Trainer, Pothanur, Coimbatore

On 3rd May 2018, a FDP programme on “Disaster Management” was conducted as a general programme. About 100 Faculty members participated the programme.

The University Grants Commission (UGC) has asked all the varsities across the country to introduce a disaster management course and made it compulsory for students. The course will have subjects such as rescue operations for bomb threats, campus shooting and terror attacks. UGC has taken the decision with an aim to safeguard students against accidents as well as attacks and threats. In that line this programme was arranged. Emergency management is the organization and management of resources and responsibilities for dealing with all humanitarian aspects of emergencies. The aim is to reduce the harmful effects of all hazards, including disasters. This pointed to a **need** for increasing focus on raising public **awareness**, and providing education, to help reduce the risk of **disaster**. This programme will support staff and students in planning strategies, **programmes** and activities for public **awareness** and public education in **disaster risk reduction**. Mr.K.Murthi discussed in detail taking examples from Railway disasters.



A session on “Disaster Management” in Progress

Date: 4th May 2018

Technical Session: 59

Department: B.Tech Biotech

Topic: Mushroom Nutraceuticals

Resource Person:Dr.G.Sudha, Professor and Head i/c, Department of Biochemistry, Periyar University, Salem

On 4th May 2018, **Dr.G.Sudha**, gave a talk on “**Mushroom Nutraceuticals**”.**Dr.G.Sudha**discussed about different species of mushrooms, Nutrition and pharmacy, medicinal value of mushroom, properties of different species of mushroom and about mushroom cultivation and employment generation. At the end of the programme the faculty members understood the medicinal value of different species of mushroom and the properties of edible and non-edible mushrooms.

Date: 4th May 2018

Technical Session: 60

Department: Mathematics

Topic: MATLAB

Resource Person:Dr.V.Sundarapandian, Professor and Dean, R & D center, Vel Tech University, Chennai

On 4th May 2018 Dr.V.Sundarapandian, Professor and Dean, R & D center, Vel Tech University, Chennai was the resource person and delivered a talk on “MATLAB”

The important topics covered were

- a. Basic concepts on MATLAB
- b. Solving Matrix operations using MATLAB

The faculty members enthusiastically participated during his lecture

Date: 4th May 2018

Technical Session: 61

Department: Mathematics

Topic: MATLAB

Resource Person:Dr.V.Sundarapandian, Professor and Dean, R & D center, Vel Tech University, Chennai

In the afternoon session Dr.V.Sunderapandian, discussed about the

- a. Various methods for solving system of equations
- b. Applications of MATLAB.

He made the session interactive and based on various examples for better understanding of the faculty members



Dr.V.Sundarapandian on MATLAB

Date: 4th May 2018

Technical Session: 62

Department: Electronics

Topic: Embedded Systems and IOT

Resource Person:Dr.Karthikeyan, Director, Thick India solutions Pvt. Ltd., Coimbatore

On 4th of April 2018, Dr.Karthikeyan, Director, Thick India solutions Pvt. Ltd., Coimbatore is the resource person and he delivered a talk on “ Embedded Systems and IOT”. About 13 faculty members attended the programme. He explained Embedded systems and IOT in mobile applications with recent technology and various types of new methodology.

Date: 4th May 2018

Technical Session: 63

Department: Pharmacy

Topic: Nano Particulate Drug delivery for Anticancer Drugs

Resource Person:Dr.S.Subramanian, Professor, Department of Pharmaceutics, PSG College of Pharmacy, Coimbatore

In the Faculty of Pharmacy the FDP was conducted on 4th May 2018 and on 5th May 2018. On 4th May 2018 in the morning session, Dr.S.Subramanian, gave a talk on “Nano Particulate Drug delivery for Anticancer Drugs”. He discussed on nanoparticles of theolmesartan tablets size analysis of nano particles, zeta potential, formulation of suppositories, and its problem in in-vivo research.

Faculty Development Programme

Name of the speaker: Dr.S.Subramanian, Professor, PSG College of Pharmacy

Time & Date: 4.5.2018 (FN)

Venue: Seminar Hall, Faculty of Pharmacy

Topic: Biomarkers: Nano Particulate Drug Delivery for Anticancer Drugs



Date: 4th May 2018

Technical Session: 64

Department: Pharmacy

Topic: Coagulants and Anticoagulants

Resource Person: Dr. J. Arun, Assistant Professor, Karpagam Faculty of Medical Science & Research, Coimbatore

In the afternoon session, Dr. J. Arun, gave a talk on “Coagulants and Anticoagulants”. He explained various types of coagulants, anticoagulants, mechanism of action, contradictions, oral coagulants and drug interactions.





Date: 4th May 2018

Technical Session: 65

Department: English

Topic: English Language Teaching

Resource Person: Dr. S. Senthilnathan, Director (FAC), UGC Human Resource Development Centre, Assistant Professor and Deputy Co-ordinator, UGC-SAP (DRS), Department of Educational Technology, Bharathidasan University, Tiruchirappalli.

He focussed that What skill sets do English language teachers need in order to be successful in their career. Some of the important skills are The teachers need four skills:

- a. Content knowlegde (I consider this as a skill)
- b. Pedagogical skills
- c. Decision making skills
- d. Social skills

Date: 4th May 2018

Technical Session: 66

Department: English

Topic: English Language Teaching

Resource Person:Dr.S. Senthilnathan, Director (FAC), UGC Human Resource Development Centre, Assistant Professor and Deputy Co-ordinator, UGC-SAP (DRS), Department of Educational Technology, Bharathidasan University, Tiruchirappalli.

In the afternoon session he explained that

1. It is important to help pupils **prepare** for the listening task well before they hear the text itself.
2. For speaking English, pupils are encouraged to begin to manipulate language and express themselves in a much more personal way.
3. Make sure that the pupils understand the essential vocabulary they need to complete the task before they begin to read.
4. For writing plenty of exposure to the language and practice of the main structures and vocabulary

Date: 5th May 2018

Technical Session: 67

Department: Pharmacy

Topic: Biomarkers: An indicator of Human health and diseases”

Resource Person:Dr.R.Duraisami, Professor, Nandha College of Pharmacy, Erode

On 5th May 2018, in the afternoon session, Dr.R.Duraisami, delivered a talk on “Biomarkers: An indicator of Human health and diseases”. He explained about the various biomarkers in our body for the identification of diseases like cardiovascular diabetes and jaundice, etc.





Date: 5th May 2018

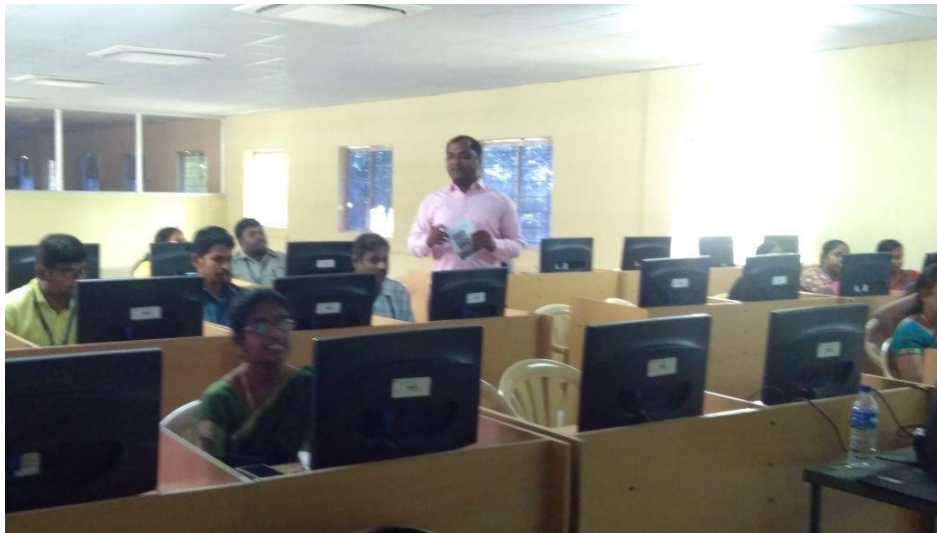
Technical Session: 68

Department: Commerce

Topic: Tally with GST

Resource Person: Mr. Alagupandi, Corporate Tally Trainer, Kalvi Educational Trust, Coimbatore

The Department of Commerce conducted their FDP programme on 5th of May 2018 and Mr. Alagupandi, Corporate Tally Trainer, Kalvi Educational Trust, Coimbatore was the resource person in the morning session. He gave a talk on “Tally with GST”. With the GST implementation various accounting softwares were used prepare the books in alignment with GST rules. One such software is “Tally”. Mr. Alagupandi explained the different steps (Create a Company, Enable GST features and Ledger creation) involved to use the “Tally” software. He stated that Tally is at the forefront of making compliance simple for businesses and tax consultants.



Date: 5th May 2018

Technical Session: 69

Department: Commerce

Topic: "International and Indian Accounting Standards"

**Resource Person: Mr. Karthikeyan, International Financial Reporting System (IFRS),
Coimbatore**

In the afternoon session Mr.Karthikeyan, International Financial Reporting System (IFRS), Coimbatore was the resource person. He gave a talk on “International and Indian Accounting Standards”.

In his talk he explained that Accounting Standards determine what type of information would be useful to investors and other stakeholders and how such information has to be reported. The purpose of accounting standards is to standardize diverse accounting policies with a view to eliminate, to the extent possible, incomparability of financial statements information and provide a set of standard accounting policies, valuation norms and disclosure requirements to discourage pursuance of accounting policies which are not in conformity with the generally accepted accounting policies. Institute of Chartered Accountants of India has so far issued twenty-eight accounting standards. Out of these as many as twelve standards have been issued during last couple of years. Compare this with forty-one International Accounting Standards out of which thirty-four are already operative



Date: 5th May 2018

Technical Session: 70

Department: Computer Science

Topic: Mobile Application Development using Kotlin.

Resource Person:Nathan S M, Android Developer, Accent TechnoSoft, Coimbatore

The FDP Programme in the Computer Science Department was conducted on 5th May 2018 and 7th May 2018. In the first day Nathan S M, Android Developer, Accent TechnoSoft, Coimbatore was the resource person and delivered a talk on **Mobile Application Development using Kotlin**. The resource person gave brief Introduction to Mobile Frameworks (Hybrid Application

VS Kotlin). Also he covered the topics about Kotlin Differentiation, JDK and Android Components Description, Involvement of Kotlin in Mobile App Development.



The session on Mobile Application Development using Kotlin by S.M.Nathan

Date: 5th May 2018

Technical Session: 71

Department: Computer Science

Topic: Mobile Application Development using Kotlin.

Resource Person: Nathan S M, Android Developer, Accent TechnoSoft, Coimbatore

In the afternoon session the resource person covered the topics like differentiation of Kotlin code and Regular Android code using Android Studio Setup. Also he covered Toast and Intent Functionality in Regular Android code and Kotlin code, Testing and Debugging, Running the Application in the Mobile.



The session on Mobile Application Development using Kotlin by S.M.Nathan

Date: 7th May 2018

Technical Session: 72

Department: Commerce

Topic:

Resource Person:

On 7th of May 2018, Mr.Parthasarathy, Excel Academy, Coimbatore was the resource person in the morning session. He gave a talk on “Training on Excel Functions”. Explained various techniques available in the Excel operations.



Date: 7th May 2018

Technical Session: 73

Department: Commerce

Topic:

Resource Person:

Mr.A.Richa,Chartered Accountant, Coimbatore, was the resource person for the afternoon session.

Handled E-filing of Tax Returns

Date: 7th May 2018

Technical Session: 74

Department: Computer Science

Topic: Sensors

Resource Person:Dr.S.Gavaskar, Assistant professor, Department of Computer Applications, Bharathiar University, Coimbatore

On 7th May 2018, Dr.S.Gavaskar, gave a brief introduction about sensors and its types that are commonly used in various applications. He discussed about the working of IR Sensors that are used in various applications like Proximity and Object Detection. He also discussed about Proximity sensor which detects the presence of an object. He gave a note on Ultrasonic sensor which is used to measure the distance as well as velocity of an object.



Dr.S.Gavaskar explaining about the sensors

Date: 7th May 2018

Technical Session: 75

Department: Computer Science

Topic: Sensors

Resource Person:Dr.S.Gavaskar, Assistant professor, Department of Computer Applications, Bharathiar University, Coimbatore



In the afternoon session he gave a demo on Qlik View Software which is one of the fastest evolving Business Intelligence (BI) and data visualisation tool. He gave a practical demo on deploying the tool which is very intuitive to use for a customer. The tool can be used for improving data visualisation practices.

Hands on training on Qlik View Software

Date: 8th May 2018

Technical Session: 76

Department: Chemistry

Topic: Potential and Opportunities for Partnership in Research– Sustainable linkages with Industries.

Resource Person: Mr.S.Shivshanmugam, Director, M/S Polyhedron Pvt. Ltd., Erode

The Department of Chemistry conducted its FDP on 8th of May 2018 and on 9th of May 2018. On 8th of May 2018 Mr.S.Shivshanmugam, Director, M/S Polyhedron Pvt. Ltd., Erode was the resource person and he delivered a talk on “**Potential and Opportunities for Partnership in Research– Sustainable linkages with Industries**.” He discussed about the potential and opportunities for Industry oriented researches in Educational institutes. He explained that Although, the main objective of educational institutes is to impart education and to guide the research scholars to conduct research, it is to be understood that most of the institutes have infra structure by default to conduct research. On tapping or tuning up suitably, the researches in the institutes can be oriented towards the needs of the industries. In this arrangement both industry and Institutes get benefited. He concluded that there is a tremendous potential and many opportunities for partnership between Educational institutes and the industries, if we appropriately address the areas of the concern.



A Discussion on “**Potential and Opportunities for Partnership in Research– Sustainable linkages with Industries**” is in progress

Date: 9th May 2018

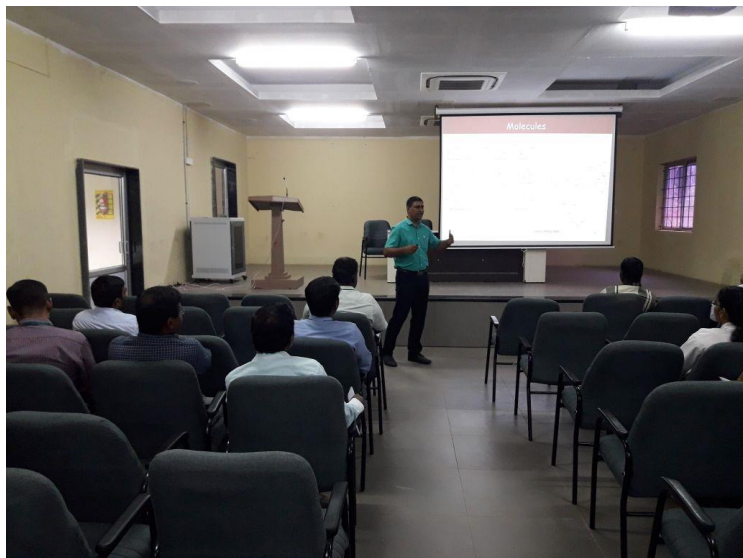
Technical Session: 77

Department: Chemistry

Topic: Supramolecular Chirality: Discrimination of amino alcohols and Inversion of amino acids

Resource Person: Dr.R.Nandhakumar, Associate Professor, Department of Chemistry, Karunya Institute of Technology, Coimbatore

On 9th of May 2018, In the Morning Session Dr.R.Nandhakumar, Associate Professor, Department of Chemistry, Karunya Institute of Technology, Coimbatore was the resource person and delivered a talk on “**Supramolecular Chirality: Discrimination of amino alcohols and Inversion of amino acids**”. *supramolecular chirality* is used to describe supramolecular assemblies that are non-superposable on their mirror images. Chirality in supramolecular chemistry implies the non-symmetric arrangement of molecular components in a non-covalent assembly. Chirality may arise in a supramolecular system if one of its component is chiral or if achiral components arrange in a non symmetrical way to produce a supermolecule that is chiral. Self-assembly plays an important role in the formation of many (chiral) biological structures, such as DNA, α -helices or β -sheets of proteins. The discussion centers on several examples that represent the control over chirality for self-assembled systems



A session on “Supramolecular Chirality: Discrimination of amino alcohols and Inversion of amino acids” by Dr.R.Nandhakumar

Date: 9th May 2018

Technical Session: 78

Department: Chemistry

Topic: Pharmaceutical Chemistry

Resource Person:Dr.Mohan, Principal, Karpagam College of Pharmacy, Coimbatore.

The talk was followed by the lecture on “Pharmaceutical Chemistry” delivered by Dr.Mohan.In his talk he detailed about the need for drug discovery, Clinical pharmacy and about the role of organic chemistry in drug development.

Small molecules remain the backbone for modern drug discovery. They are conceived and synthesized by medicinal chemists, many of whom were originally trained as organic chemists. Support from industry and institutions to provide training and personnel for continued development of this critical skill is the need of the hour in the complex journey of drug discovery. He also explained that Clinical pharmacists interact, coordinate, and work directly with physicians, other health professionals, and patients to ensure that the medications prescribed for patients contribute to the best possible health outcomes.



A talk on “Pharmaceutical chemistry” by Dr.Mohan in progress

Date: 9th May 2018

Technical Session: 79

Department: Chemistry

Topic: Nanomaterials for Energy and Environmental Applications

Resource Person:Dr.B.Vidya, Asst. Professor, Karunya Institute of Technology, Coimbatore

In the afternoon session Dr.B.Vidya, gave a talk on “**Nanomaterials for Energy and Environmental Applications**”. Among the current subjects in nanoscience and nanotechnology, nanomaterials are developing fast and explosively and attract a huge amount of attention. They have recently shown emerging applications and continue to show promising potentials in technologies such as solar cells, fuel cells, secondary batteries, supercapacitors, air and water purification, and removal of both domestic and outdoor air pollutants. The application of nanomaterials has also drawn attention to their effects on human health. The Resource person discussed in detail about the very recent efforts through nanoscience and technology towards meeting the pressing energy and environmental challenges that human beings are facing.



A session in progress on “**Nanomaterials for Energy and Environmental Applications**” by Dr.B.Vidhya

Feedback from the Participants:

All the sessions were very much informative. The discussed areas are of great benefit for the participants as the topics match with the current working domain. Participants were enlightened with the most widely used advance technologies in this domain. This in turn will help in research activity and placement opportunity.

This FDP has created a sense of justification among the learners and they are looking forward to do research write and read the research papers or undertake some research project.

This FDP has not only helped the academicians in their curriculum but has also helped them develop their personal skills and knowledge.

Finally participants were asked to come on the dice and share their experience and learning of the whole program. The program was concluded with happy note from everyone.

The feedback of the participants was very positive and motivational for the organizers. Moreover, all the resource persons were of repute in their respective fields and the knowledge imparted by them was very useful in their forthcoming academic endeavors.