

KONGUNADU ARTS AND SCIENCE COLLEGE
(Autonomous) Coimbatore – 641 029

Department of Botany

Department Activity for the Academic Year 2018-2019

PROGRAMME – 1

Special lecture on ‘Plant Intelligence: Mind without Brain’

PG and Research Department of Botany, Kongunadu Arts and Science College have conducted Association Meeting on 06/08/2018. The meeting was started with prayer and Ms. Monica of II M.Sc., Botany welcomed gathering. Dr. V.Balasubramaniam, Principal and Head Department of Botany, Kongunadu Arts and Science College delivered the presidential address. Ms. Monica and Mr. Gowtham took oath as student secretary and student joint secretary of the department. The resource person Dr.T.Muthukumar, Assistant Professor, Department of Botany, Bharathiar University delivered a special lecture on ‘Plant Intelligence: Mind without Brain’. The lecture dealt about how plants are interacting with each other and with other living organisms. Plant symbiotic association and mutual understanding between plants and microorganism were discussed. In addition, how plants are protecting themselves from other organisms, how plants are adapting themselves in diverse environment, allelopathy effect, morphological modifications *etc* was discussed and students were eagerly interacted with resource person. Finally, vote of thanks was proposed by Mr.Gowtham of III B.Sc., Botany. Staff, students and research scholars of Botany and other departments attend and benefitted. The programme was ended with national anthem.



PROGRAMME – 2

National Level Training Programme on ‘HPLC Technique’

PG and Research Department of Botany, Kongunadu Arts and Science College organized one Day National Level Training Programme on HPLC technique on 20/09/2018, sponsored by Indian Science Congress Association, Coimbatore chapter. The programme was with formal invocation and the gathering was welcomed by the programme organizing secretary Dr.R.Thirugnanasampandan, Assistant Professor in Botany. Dr.C.A. Vasuki, Secretary & Director delivered the presidential address followed by Dr.V.Balasubramaniam, Principal and Head of the department of Botany felicitated the programme and highlighted the importance of HPLC in Biology especially in botanical research. Chief executive officer Dr.V. Chinnsamy and Dean, Academic cum R&D felicitated the programme and shared their views about applications of HPLC in various fields like analytical chemistry, natural products purification, etc. Resource person Mr. Vinothkumar, Amkette Analytics Ltd, Mumbai delivered the lecture on instrumentation, working principle, applications and trouble shooting of HPLC in morning session. During afternoon session participants were trained with HPLC instrument and sample injection injected and result analysis. Critical steps like solvent selection, sample preparation, column washing, data interpretation and instrument maintenance, etc were taught to the participants by the resource person. A total of ninety participants including PG students, Ph.D., research scholars and faculty members attended and benefitted. Finally, Dr.K.Karthika, Assistant Professor in Botany proposed the vote of thanks.



Dignitaries on the dais



Lecture by Mr. Vinothkumar, Amkette Analytics Ltd, Mumbai

PROGRAMME – 3

Special lecture on ‘Science behind the traditional knowledge on healthcare of women’

A special lecture on “Science behind the traditional knowledge on healthcare of women” was arranged on 25.09.2018 by the Department of Botany, Kongunadu Arts and Science College, sponsored by Indian Science Congress Association (ISCA), Coimbatore Chapter.

Dr. P. Sumathi, Organizing Secretary and Assistant Professor of Botany, Kongunadu Arts and Science College welcomed the gathering. Dr. V. Balasubramaniam, Principal and HOD, Kongunadu Arts and Science College highlighted the importance of the focal theme “Traditional knowledge and he stressed about the Science behind our Indian Culture. In the first session, Smt. Sangitha Varier, South Zonal Secretary of Ekal Abhyan, Coimbatore delivered a lead lecture on the focal theme “Science and our Culture” with simple examples which we practice it routinely in our day to day life. Information’s she shared were very informative and interesting especially for women students. She also highlighted the traditional uses of betel leaf, tulasi, safron, vilvam, etc. She also explained the therapeutic properties of flowers of different species such as *Jassminum grandiflorum*, *Michelia champaca*, *Hibiscus rosa sinensis*, *Pandanus amaryllifolius*, etc., and their uses for curing various diseases.

In the next session, Smt. Lakshmi Suryanarayan, an active Social worker of Mahila Wing of Ekal Abhiyan, Coimbatore addressed on the topic “Management of Anaemia through home remedies”. She told many informations on anaemia, their cause and side effects. Finally she described the home remedial measures followed to prevent anaemia. Two hundred and ten women participants from various departments participated in this programme and got benefitted. Dr. K. Thenmozhi, Organizing Secretary and Assistant Professor of Botany proposed vote of thanks.



Dignitaries on the dais



Lecture by Smt. Sangitha Varier, South Zonal Secretary of Ekal Abhyan, Coimbatore



**Lecture by Smt. Lakshmi Suryanarayan
Social worker of Mahila Wing of Ekal Abhyan, Coimbatore**



Distribution of Home Remedy booklets on Anemia to the students

PROGRAMME – 4

Workshop on ‘Plant Microtechniques’

The Department of Botany, Kongunadu Arts and Science College (KASC), Coimbatore organized a One day workshop on ‘Plant Microtechniques’ on 04.10.2018, sponsored by Indian Science Congress Association (ISCA), Coimbatore Chapter.

In the inaugural session, Dr. S. Jamuna, Organizing Secretary of the workshop and Assistant Professor of Botany, KASC welcomed the gathering and highlighting the importance of plant microtechniques. Dr. V. Balasubramaniam, Principal and Head Department of Botany, Dr. V. Chinnusamy, CEO, KASC, Dr. S. Paulsamy, Treasurer, Coimbatore Chapter, Dean, Academic and R&D KASC, Dr. K. Arumugasamy, Associate Professor of Botany (Retd.), KASC have felicitated the function by giving valuable suggestions about microtechniques. Dr. P. Mehalingam, Assistant Professor of Botany, V.H.N. Senthikumara Nadar College, Virudhnagar delivered the special lecture on ‘Microtechniques’. In his lecture he explained the technical aspect on the preparation of permanent microscope slides from living materials and explained the various aspects of microtomy such as fixing, dehydration, infiltration, embedding, staining and mounting and their importance in the field of pharmacogony. In the afternoon session, he gave the hands-on training on the preparation of permanent slide. Participants were actively involved and interacted with the resource person.

Sixty seven participants from KASC and other colleges such as Nehru Arts and Science College, Dr.N.G.P. Arts and Science College, PSGR College for Women, Coimbatore and Vellalar College for Women, Erode have attended the function. The deliberations of the workshop are most useful for them. Dr. K. Karthika, the another Organizing Secretary of the programme and Assistant Professor of Botany, KASC, proposed vote of thanks.



Dr. S. Paulsamy, Dean, Academic & R and D, KASC felicitated the function



Dr. K. Arumugasamy, Associate Professor of Botany (Retd.), KASC felicitated the function



Lead lecture by Dr. P. Mehalingam, Assistant Professor of Botany, V.H.N. Senthikumara Nadar College, Virudhnagar



A view of audience



Hands – on training on Plant Microtechniques

PROGRAMME –5

Special lecture on ‘Biodiversity of Eastern Ghats and its conservation’

The Department of Botany, Kongunadu Arts and Science College, Coimbatore organized a special lecture on 14.12.2018, sponsored by Indian Science Congress Association (ISCA), Coimbatore Chapter. The meeting was started with prayer and Ms. Monica of II M.Sc., Botany welcomed gathering. Dr.V.Balasubramaniam, Principal and Head Department of Botany, Kongunadu Arts and Science College delivered the presidential address and Dr.S.Paulsamy, R&D Dean, Kongunadu Arts and Science College felicitated the gathering. Dr. T. Pullaiah, Former Professor and Head, Department of Botany, Sri Krishna Devaraya University, Anantapur (AP) delivered a lecture on ‘Biodiversity of Eastern Ghats and its conservation’. In his lecture he highlighted the importance of Eastern Ghats in terms of their services and providing ecological security and its conservation strategies. Eighty two participants from our college have attended the lecture. The deliberations are most useful for them. Finally, vote of thanks was proposed by Mr.Gowtham of III B.Sc., Botany. Staff, students and research scholars of Botany and other departments attend and benefitted. The programme was ended with national anthem.



Dignitaries on the dais



Lecture by Dr. T. Pullaiah, Former Professor and Head, Department of Botany, Sri Krishna Devaraya University, Anantapur (AP)

PROGRAMME –6

Workshop on “Cell Culture Techniques”

One day workshop on “Cell Culture Techniques” was conducted on 11.03.2019 by the Department of Botany, Kongunadu Arts and Science College sponsored by the Indian Science Congress Association (ISCA), Coimbatore Chapter.

Dr. K. Sowndhararajan, Organizing Secretary and Assistant Professor of Botany, Kongunadu Arts and Science College welcomed the gathering. Dr. N. Nagarajan, Associate Professor of Botany, Kongunadu Arts and Science College honored the resource person with a gift. Dr. V. Balasubramaniam, Principal and HOD, Kongunadu Arts and Science College presided over the function. His speech mainly focused on the importance of animal cell culture techniques in relation to the plant science research field. Dr. S. Paulsami, Dean R & D, Kongunadu Arts and Science College felicitated the workshop. He clearly explained the history of some important cancer cell lines and the cytotoxicity effect of plant extracts.

The resource person, Dr. P. Arulselvan, Managing Director, SCIGEN Research and Innovation Pvt. Ltd., Thanjavur delivered lecture on the topic “Animal Cell Culture Techniques and Their Applications”. This lecture was very useful for budding researchers. He provided many information regarding the basics of cell culture techniques and emphasized applied aspects of cell culture research. In addition, he pointed out different types of cell lines and pros and cons of cell culture research. In the workshop session, observation of animal cells, preparation of cell culture media and other reagents for cell culture, subculture of cells and counting the cells were trained to participants.

Dr. K. Karthika, Assistant Professor of Botany, Kongunadu Arts and Science College proposed vote of thanks. A total number of 55 participants which include research scholars and staff members of Department of Botany attended the programme. From this workshop, participants gained more practical knowledge in connection with basic cell culture techniques.



Dr. N. Nagarajan presented a gift to the Resource person



Dr. V. Balasubramanim, Principal, KASC felicitated the workshop



Dr. S. Paulsamy, Dean R & D felicitated the workshop



Dr. P. Arulselvan, the resource person delivered a lecture on “Animal cell culture techniques and their applications”



Dr. N. Yoganathan, Research staff from SCIGEN Research and Innovation - explaining the cell culture techniques to participants