

INSTITUTION DISTINCTIVENESS

In the journey of KASC, another milestone of Academic Excellence is the conferment of Star College Scheme by the Department of Biotechnology, Ministry of Science and Technology, Government of India, New Delhi in 2019. The Star College Scheme is a unique landmark programme initiated by DBT with the prime focus to improve the quality of science education at undergraduate level. A facelift to the UG Science Programmes with transdisciplinary approach stamps the spectrum of achievements in science education offered in our College. Five Departments of our college; Biotechnology, Biochemistry, Mathematics, Computer Science and Physics are recognised under the scheme

Objectives of the DBT Star College Scheme of our College:

- To strengthen the academics and Infrastructure of Science Programmes
- To adopt a standard Curricula and to offer advanced level practical to the students
- To introduce Multidisciplinary projects at Under Graduate level and to enhance Research Publications by the staff and students
- To organize Lecture series with academic experts, Academia Industry Interface programmes, Hands-on-Workshops and Faculty Development Programmes
- To conduct more outreach activities to augment the Social Responsibilities of the students
- To Organize Industrial and Academic Visits
- To Conduct Competitions and to facilitate the students to take up Research Projects

Impact of the Programmes:

- Our College stands unique in our region as it received the DBT Star College Scheme and that has served as a good platform for strengthening the teaching learning process

- DBT Star College Scheme has facilitated the enrichment of the curricula in offering concrete knowledge to the students. Skill based activities made mandatory to all courses in the curriculum
- Enhanced instrumental facilities and induction of modern practical experiments in undergraduate curriculum enabled undergraduate students to get trained in modern techniques and in operating advanced equipment
- Increase in availability of chemicals/ consumables and glassware facilitated students to execute practicals individually and benefitted with experiential learning
- Interdisciplinary Projects encouraged to motivate students to gain a broader understanding of various disciplinary concepts with multiple perspectives
- Research output from the Star Departments in terms of Publication of Patents and Scientific Papers in reputed Journals has steadily increased
- Smart classrooms are installed and Laboratories are equipped with Advanced Instruments and Softwares
- Math Lab was established with MATLAB Software
- Advancement of knowledge, practical training in innovative teaching and laboratory methods were made possible by arranging guest-lectures, Hands-on Faculty Development workshops, Seminars and Conferences
- Hands-on-Training on Android Application Development, IoT and its applications, Python Programming, PCB Soldering, Workshop on Azolla cultivation, FISICA Lab, Soil Testing have given a very good exposure to the students in choosing their future career

HANDS-ON-TRAINING



Workshop on “Invitro Culture of Animal Cells and its Applications



Hands on Workshop on ‘Mushroom Cultivation’



Workshop on ‘Fermentor Handling’



Hands on Workshop on ‘Advanced Immunohematology’



Workshop on ‘Python Programming’



Two Day Skill Development Training on “Functional Components of Mobile Phone”

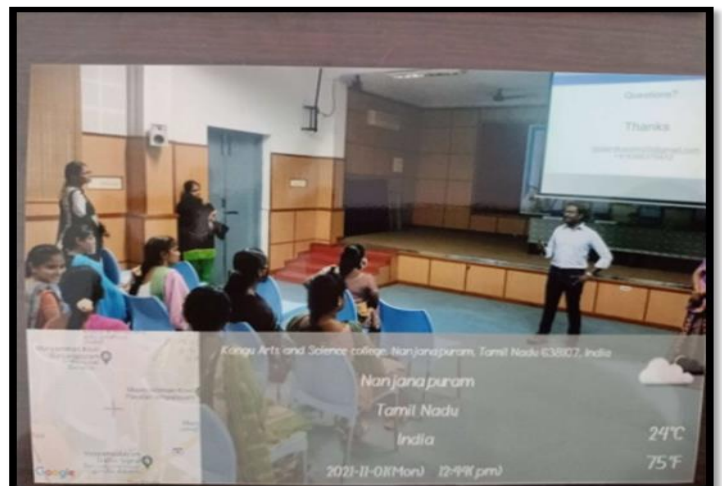
- The DBT Star College Scheme has given a clear focus to the start-ups. One of our students has devised Anti-theft alarm
- MoU was signed with Prince of Songkla University, Thani campus, Thailand which has highly helped in Collaborative activities

- Library is backed up with numerous numbers of advanced level titles.
- Active participation of students in various programmes and competitions under the Schemes of DBT such as Science Sethu and Manav - Human Atlas initiative provided a broad academic as well as research exposure for our students
- Career Growth of the students are channelized through Industrial Visits to Indian Institute of Astrophysics, Fluid Control Research Institute (FCRI) Palakad, Pasteur Institute of India, Coonoor
- Academia industry interface Programs ensured the industrial relevance of the curriculum and provided platform for the students to get exposed to the expertise of the Industry experts and enhance their skills and talents as per the latest industrial requirements

ACADEMIA - INDUSTRY INTERFACE PROGRAM



Biochemistry- How it will help in FMCG industry & Pharma job sectors



Characterization of Biosimilars using Mass Spectrometry

STUDENTS COMPETITIONS



National Science Day celebrated



ERODE MAR 1: National Science Day was celebrated by the Department of Biotechnology, Government of India, Star College Scheme and Science Forum at the Kongu Arts and Science College, Erode on Monday. The College Correspondent K. Palanisamy presided and alumni from the Science Forum discussed current issues. Dr. K.M.Kumaraguru, Prof and Head of Commerce Department presented cash prizes and certificates to winners of various competitions conducted by star departments. A.K. Vidya deliver the special address at S.Tamiselvi, Asstta Professor, Department of Computer Application welcomed. Dr. N. Sangeetha Associate Professor, Department of Biochemist thanked the audience. Head of various Department Professors and Studer attended the function.



- Many outreach activities have been carried out by the students which have created a greater impact on the society, especially the rural people. Outreach activities like Tribal Welfare Camps helped the people in Kadambur village to understand the values of Education, Nutrition and Hygiene etc.,
- Acquirement of skill sets in scientific techniques from the workshops, training programmes and demonstrations conducted by Scientists of National Institutes, Central Government Laboratories and Universities led students to pursue their career in such higher Institution

News Coverage Publicity

Workshop on outcome based curriculum framework

ERODE JAN 29:

The DBT Star Departments in association with OBE Monitoring Committee of Kongu Arts and Science College has organized a one day faculty development programme cum workshop on 'Implementation of Outcome Based Curriculum Framework' under DBT star college scheme. Dr.N.Muthumani, Principal,



PPG College of Arts and Science, Coimbatore addressed on the topic. The Correspondent K.Palanisamy

presided over the function. Dr.N.Raman felicitated the gathering. The Convener of OBE

Monitoring Committee Dr.S.Nagarajan welcomed and R.Chitra, HoD of Physics delivered the vote of thanks.

Workshop on Python Programming

ERODE MARCH 3:

The Department of Computer Science of Kongu Arts and Science College, Erode, funded by the Department of Bio Technology under DBT Star College Scheme, organized a 2 day Hands-on Training cum workshop on 'Python Programming' for first year Computer Science (UG) students at the Computer Center of the college.



Chief Guests D. Ravikumar, K Jeeva Software Development Engineers Ascentz Technologies, Coimbatore Correspondent K Palanisamy principal Dr N Raman and HoD Ramesh spoke

Awareness Week.

Maths training programme



ERODE NOV 2:

The Maths Department of Kongu Arts and Science College, Erode, organised a training programme on Basic and Vedic Maths for the students of government primary school, Nanjanapuram village, adopted by the college for its extension service activities. The college provided

Maths and corona safety kits to students. College correspondent K Palanisamy, principal Dr N Raman, Maths HOD Dr Nagarajan and college professors attended the function.

The training could help kindle the interest of students on Maths and improve their memory power.

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'Star' students of Kongu Arts college honoured

Erode, April 25: A star award ceremony was conducted under the auspices of the Department of Biotechnology, Government of India, Star College Scheme of the Kongu Arts and Science College. The event was graced by the college correspondent K Palanisamy, who presided over the function and distributed the awards to the star students. College principal Dr.N.Raman greeted the star students. Under DBT Star College Scheme several activities were conducted for the students on behalf of the Star-Departments. Awards were given to the best students who benefited through the Star College Scheme. Biochemistry student A.S. Prem, Biotechnology student S. Gomathi, Mathematics student M. Manojkumar, Computer Science student S. Meganathan and Physics student P. Priya received the awards. Coordinator of the Star College Scheme, Associate Professor Dr. A.K. Vidyathe spoke on DBT activities. Assistant Professor, Head of the Department of Computer Science, welcomed and Dr. S. Nagarajan, Associate Professor and Head, Department of Mathematics, proposed a vote of thanks. Various Heads of the Departments, Professors and students attended the function.

Workshop on mathematical modelling



ERODE DEC 29:

PG and Research Department of Mathematics of Kongu Arts and Science College (Autonomous) organized a workshop on 'Mathematical Modelling in Business Decision Making' for the students

under Star College Scheme. Dr.S.Nagarajan, Head, Department of Mathematics welcomed the gathering. The Correspondent K.Palanisamy presided over the function. The Principal Dr.N.Raman felicitated the gathering. Dr.P.Mariappan, Associate

Professor and Head , PG and Research Department of Mathematics, Bishop Heber College, Trichy has trained the students to accomplish a secure and sure environment in business through a good decision making by using Mathematical Models.

EXTENSION ACTIVITIES



Public awareness program on Breast Cancer Women in Nasiyapur Panchayat Village



Teaching by Taught – To Infuse Science Temperament among Orphanage Students



“Energy Conservation by distributing LED bulbs”



Health Care Camp

Scheme Beneficiaries

Beneficiaries	KASC	Other Institutions	Total	Grand Total
Students	6,274	4,722	10,996	17,161
Faculty Members	1,519	3,251	4,770	
School & Public	1,395		1,395	

No. of Students opting for PG Programmes

Total No. of Students who have studied during the scheme period	No. of Students opting for PG Programmes	Percentage of students opting for PG
1,384	824	60 %

Awards and Accolades

1. Our student Ms.Manju from the Department of Physics has cleared IIT JAM Examination in the year 2019
2. Received Appreciation from Honourable Union Minister for Health & Family Welfare, Science & Technology, Dr. HarshVardhan, for our participation in the Nationwide IndiGen (Indian Genome Initiative) Research Programme, an initiative of CSIR-IGIB, Delhi and CSIR-CCMB, Hyderabad for genome sequencing Project across the country.
3. Conversion of student Project into Patent (Australian Innovation Patent- [AU2021106372A4](#) dated 02.12.2021) on *Moringa oleifera* gum based Biopolymer composition and a method to synthesize the biopolymer.
4. Our students of Biochemistry Department received special appreciation from Manav - Human Atlas initiative, a Scheme of DBT, Govt. of India for being among the top scoring students in the Quiz series held during April-May 2020.
5. K. Harish Kumar, III-year B.Sc. Mathematics Student invented an economic Anti -theft Alarm which received a wide appreciation from the Public, Media and Ministers

6. A Student from the Department of Biochemistry secured FIRST PRIZE for Paper Presentation for her UG Project entitled 'Biosorption of Reactive Dyes by Green Synthesis of Nano Composite Using Leaf Extracts' in the National Conference 'e-CONCEPT2021' organised by Kongu Engineering College, Erode. The Research paper was published in Scopus indexed journal.

IISER, Pune recognised our College as one among the select Colleges in the Country for the **MANAV – HUMAN ATLAS INITIATIVE - BETA TESTING WORKSHOP** funded by DBT, Govt. of India, and our Faculty and Students received special appreciation for their participation as Biocurators held during September – October 2020.

The Star College Scheme played a significant role in improving the skills of the students, inculcating scientific inquisitiveness. Innovation and Invention, the bench marks of Science streams are executed successfully in addition to Student-Centric learning approach through the Scheme by going beyond the knowledge boundaries fixed within the text. It paves a platform for interdepartmental knowledge sharing aura propelling the students to become effective academicians in building the Nation.

A big transformation is observed in the upliftment of the Rural students and also in the improvement of their quality on par with Urban students. It is a continuum which involves the role of passionate students, dedicated faculty members and the supporting staff holders. We thrive to establish a meaningful context between the theory in texts and the practice in real life to reap the fruitful benefits by implementing the objectives DBT Star College Scheme.