

BUILDERS ENGINEERING COLLEGE

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

ISO 9001:2015 Certified Institution & Accredited by NAAC with B++ Grade

Erode Road, Nathakadaiyur, Kangayam, Tirupur - 638 108, Tamil Nadu.

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ANNUAL REPORT 2020-2021

I am extremely privileged and honored to welcome the CHIEF GUEST, CHAIRMAN, SECRETARY, TREASURER, CORRESPONDENT, TRUSTEES, FACULTIES and STUDENT FRIENDS.

I take this opportunity to share with you our 12th ANNUAL REPORT of the year 2020 – 2021. The past year was marked with many success stories in the pandemic situation. This can be attributed to the dedication and team spirit of the members of the MANAGEMENT, FACULTY and STUDENTS.

BUILDERS ENGINEERING COLLEGE is promoted by a league of eminent builders from ERODE with the unique objective to impart value based education to prepare students for a successful career.

With its glorious initialization in 2009, BUILDERS ENGINEERING COLLEGE offers two streams of education namely ENGINEERING and MANAGEMENT. BEC is accredited by NAAC Committee with grade of B++ and affiliated to ANNA UNIVERSITY, CHENNAI.

FACULTY OF ENGINEERING offers in Bachelor of Engineering in Civil Engineering, Mechanical Engineering, CSE, ECE and EEE and in Master of Engineering it offers CSE, Construction Engineering & Management and Structural Engineering.

FACULTY OF MANAGEMENT commenced its first year of operations in 2009 and within twelve years since inception, it has been able to carve a niche for itself among the stakeholders concerned.

MoU SIGNED:

Our college has been collaborating with industry through Memorandum of Understanding to promote practical training, exchange of expertise, consultancy and placement. This year we have added a few more MoU's with the following industries:

- M/s Ramalingam Construction Company Private Limited, Erode.
- M/s CMK Project Private Limited, Chennai
- M/s Skill safari, Coimbatore
- M/s SCHWING Stetter (India) Pvt. Ltd, Chennai
- M/s Innovatussystems, Coimbatore




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- M/s STEPS Knowledge Services Pvt. Ltd,Coimbatore
- M/s Enthu Technology Solutions India Pvt. Ltd,Coimbatore
- M/s Krish tech, Coimbatore

FACULTY ACHIEVEMENT:

In order to ensure better teaching-learning process, faculty members are encouraged to attend Faculty Development Programmes on various functional areas. Faculty members of all disciplines are given ample opportunity to participate in FDPs, Workshops, National and International Seminars to explore their technical skills and enhance their teaching methodology.

- Dr. S.Saravanan Prof. from ELECTRICAL AND ELECTRONICS ENGINEERING achieved project on Solar powered Car with dual battery by using energy management system.
- Dr. G.S.Thirugnanam Prof. from Civil Engineering achieved a project on Load reflection behaviour of reinforced AAC beams.
- Mr. S.D.Vijayakumar Prof. from Electronics and Communication Engineering achieved a project on CCTV Camera based thief identification using Raspberry Pi in neural networks.
- Dr.N.Sathish Kumar Prof. from Mechanical Engineering achieved a project on Design, Fabrication and Analysis of a Paver Machine for various dimension of Mould.
- Dr. S.Ravi Shankar Prof. from Master of Business Administration achieved a project on Manpower Management related to Downsizing & Rightsizing of GMS Elegant Builders (I) Pvt Ltd.
- Dr. D.Maya Prof. from Computer science and Engineering achieved a project on Mining computation to reputation.

FACULTY DEVELOPMENT

- In order to ensure better teaching – learning process, faculty members are encouraged to attend Faculty Development Programmes on various functional areas. Faculty members of all disciplines are given ample opportunity to participate in FDPs, Workshops, National and International Seminars to explore their technical skills and enhance their teaching methodology.
- 43 Faculty members had been provided with financial support for Rs. 37,300 to attend Conference, Seminars, and workshop organized by other institutions and 27 faculty members had published their articles in reputed journals.
- BEC had organized 20 programs exclusively for the development of staff members and 60 Faculty members attended Faculty Development Programs during this academic year.



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RESEARCH AND DEVELOPMENT ACTIVITIES

In this academic year 3 of our faculty members had completed their doctorate degree

- Prof. N. Satheeshkumar from Mechanical department, Prof. K. Ravikumar from CSE department and Prof. L. Sampathkumar from Physics department were awarded with Ph.D in their disciplines.
- 22 programs had been conducted on research methodology, Entrepreneurship development and Intellectual property rights for developing R & D activities during the academic year 2020-2021

PATENT PUBLICATIONS:

Faculty Members of Under Graduate Programmes, Post Graduate Programmes and Post Graduate Programme in Management showing interest in publishing patent, which are really helpful for their academic advancement. Their publication details are listed below.

- Mr.C.Mathiyalagan Prof. from Electrical and Electronics Engineering published a paper on IoT based Vehicle Fuel Monitoring System Inventors under the name of journal Patent Application Publication.

WEBINARS AND SEMINARS:

Departments which function under UG Programmes, PG Programmes and Post Graduate Programme in Management have organized various programmes on all the functions of various disciplines, which really supported the upcoming generation to cope up with Corporate Expectations.

CONSULTANCY:

For the Academic Year 2020-21 our Institute has made an enormous income in Consultancy Assignments that too in Civil Engineering Discipline. A sum of Rs. 3, 20,832/- was generated as an income by the Civil Department through Consultancy Assignments during 2020-21.

CO-CURRICULAR ACTIVITIES:

- 20 Value added programs had been offered by the institute during this academic year. Out of this 5 in Civil, 4 in CSE, 3 each in EEE, ECE & Mechanical Engineering and 2 Programs in MBA.



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CONFERENCE PRECEDINGS:

Our staff members have attended various National and International Conferences and published their papers on that forum. The objective of the conference attended by our faculty members is to bring together Academicians, Research Scholars & Delegates from industry thereby enabling them to come out with innovative concepts & ideas in their fields. Eminent persons from various colleges chaired the conference presentation.

National Web Conference on Challenges and Innovation in Engineering & Technology 2021 (NWCCIET'21) in this conference precedings the following papers had been published.

- Mr. S. D. Vijayakumar -Micro-controller based home automation for disabled person using gesture and voice recognition
- Ms. G. Vijayakumari - Smart Defense Rover for Military Applications
- Mr. T. Velmurugan - An Autonomous Helmet-Bike With Alcoholic Drive Curtailment
- Mr. M. Shanmugham - Track and Rescue System of Dementia Patient Using LoRa Module
- L.Sampath Kumar - Study Of Tamarind Seed Polysaccharide Solid Natural Polymer Electrolytes With Zinc Acetate

CELLS AND CLUBS:


The following are the Cells and Clubs which have been effectively functioning at our Campus. Entrepreneur Development cell, Anti-ragging committee, Grievance redressal committee, Internal complaint committee, Committee for SC/ST, IQAC, NSS, YRC, RRC, Women development cell, Green Energy Club and Staff club to name a few.

STUDENT'S SKILLS DEVELOPMENT:

Institute frequently offers various programmes to the students community in order to enrich their soft skills, Technical Skills.

1. SOFT SKILLS-Quantitative ability, Technicalability, Verbal ability-CSE,ECE,EEE
2. COMMUNICATION SKILL TRAINING
3. Webinar on Introduction To MATLAB
4. Webinar on Data warehousing in IT
5. Webinar on Open source Simulation Tool –Tinkercad
6. Webinar on Signals and Image Processing using MATLAB
7. A webinar on Autodesk BIM software




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INTERNSHIPS OF STUDENTS:

Sensing the need to make the students employable, students were guided and sent for various companies for INTERNSHIP for imparting knowledge and soft skills and other skills. Around 40 students were sent to INTERNSHIP for various companies and various fields with the time period of 4 months.

TRAINING ACTIVITIES:-


Sensing the need to make the students employable, an exclusive Training Division has been incorporated under the leadership of Prof.K.S.Thirunavukkarasu. Training Division takes care of imparting technical know-how and soft skills to the students thereby enabling them to face the selection process with much more confidence.

During this academic year, 170 students were trained from all departments to attend various companies such as Vernallis, Infosys and TCS.

With the support of Training Division and respective departments, the Placement Division has been successful in placing students in various companies. So far 109 Students have been placed in different Companies. Some of our top recruiters include:

- URC Constructions, Erode
- Focus Edumatics, Coimbatore
- V.Sathyamoorthy & Co, Namakkal
- Ramalingam construction company Pvt. Ltd., Erode
- BYJU'S The Learning App
- RDC Concrete, Mumbai
- SBI Life Insurance, info@sbilife.co.in
- Reliance Retail, customerservice@ril.com
- Malabar gold & Diamonds, Tel: 0424 222 0916
- Star Health, info@starhealth.in
- Foxconn Electronics, Chennai
- Calibrant Technologies
- Webberax, Chennai
- East India Technologies Private Limited, Bangalore
- Infonet, Namakkal
- Sakthi Auto Component Private Limited, Perundurai
- iCAMTechnosys, Tirupur
- Axis Global Automation, Coimbatore
- Infosys, Bangalore
- Mindtree, Bangalore




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- , Expleo, Chennai
- Corel Manufacturing Works, Ezhumathur
- Jascon, Trichy
- SSS Engineering Works, Erode
- L.G. Balakrishnan & Bros. Ltd., Annur

ALUMNI ASSOCIATION:

I am proud to inform that the passed out students of our college have been actively involved with college through Alumni Association.

LIBRARY:

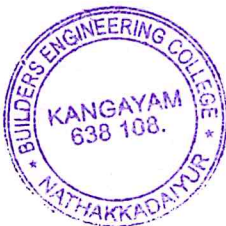
The Central Library is the one which offers pivotal support to students, teaching and non-teaching members of BEC. The library is well equipped with modern facilities and resources in the form of CD-ROMs, On-line databases, audio video cassettes, books, e-journals, theses, reports, etc. related to various fields like Applied Science, Engineering, Technology, Humanities, Management, Social Science and other new emerging areas.

Many milestones have been achieved and many still have to be reached. We at BEC will continue our unceasing efforts to mould the young minds into well balanced personalities with confidence and zeal befitting the standards of this portal of education.

This report is a sincere attempt to showcase our progress in terms of achievements and activities during the year.

On this memorable occasion as we recount our success with pride and happiness, we wish to dedicate all our achievements to the committed effort of a committed team called Builders Engineering College. We humbly salute our visionary leaders of the past and the great ones of the present and seek divine grace and blessings to guide us in all our endeavors.

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