

XVI Alumni MEET & Felicitation Programme

13th October, 2018

SOUVENIR
2018



CTAE ALUMNI SOCIETY

COLLEGE OF TECHNOLOGY AND ENGINEERING

Maharana Pratap University of Agriculture and Technology, Udaipur- 313 001 (Raj.)

Phone : 0294-2470837 | Fax : 0294-2471056

Website: <http://www.ctae.ac.in> | E-mail: ctaealumniassociation@gmail.com

जन जन ने सम्भाली जल संचय की कमान
अब और बढ़ेगा राजस्थान का मान

मुख्यमंत्री जल स्वावलम्बन अभियान

कृषि अभियन्ताओं का मान और सम्मान

दौड़ते जल को चलना सिखायें, चलते जल को रेंगना सिखायें ।
रेंगते जल को रुकना सिखायें, रुके जल को भूमि में समाहित करें ॥



श्रीमान् धन सिंह जी रावत, पंचायती राज मंत्री, राजस्थान सरकार, श्रीमान् श्रीराम वेद्विरे, अध्यक्ष, राजस्थान रिवर बेसिन एवं श्रीमान् जिला कलेक्टर महोदय, उदयपुर द्वारा मुकेश सिंह अत्री, सहायक अभियन्ता (जल ग्रहण विकास) को राज्य स्तर पर मुख्य मंत्री जल स्वावलम्बन अभियान, जिला-उदयपुर में उत्कृष्ट कार्य हेतु सम्मानित करने पर हार्दिक बधाई

मेसर्स तितरवाल कन्सट्रक्शन कम्पनी

(जल संसाधन एवं पीडब्ल्यूडी) प्रो. काना राम तितरवाल
ग्राम-मुंगीथला, पोस्ट-सेवा, त. दूद, जिला-जयपुर (राज.) मो.: 9982656322

मेसर्स रामगोपाल जाट

(ए-क्लास कॉन्ट्रैक्टर, जल संसाधन एवं बी-क्लास, पी.डब्ल्यूडी)
ग्राम-बागरी, पोस्ट-लाम्बाहरिसिंह, त. मालपुरा, जिला-टोंक (राज.) मो.: 9982318782

श्रीमान श्रीराम वेदिरे, अध्यक्ष, राजस्थान रिक्टर बेसिन एवं श्रीमान् जिला कलेक्टर महोदय, उदयपुर के सानिध्य में नेशनल मीडिया द्वारा मुख्य मंत्री जल स्वावलम्बन अभियान, जिला-उदयपुर के कार्यों का अवलोकन किया गया - एक रिपोर्ट



श्रीमान् जिला कलेक्टर महोदय, उदयपुर के सानिध्य में नेशनल मीडिया द्वारा मुख्य मंत्री जल स्वावलम्बन अभियान, जिला-उदयपुर के कार्यों का अवलोकन किया गया - एक रिपोर्ट

दौड़ते पानी को चलना सिखाया

21000 गांवों को पानी का पखवा...

श्रीमान् जिला कलेक्टर महोदय, उदयपुर के सानिध्य में नेशनल मीडिया द्वारा मुख्य मंत्री जल स्वावलम्बन अभियान, जिला-उदयपुर के कार्यों का अवलोकन किया गया - एक रिपोर्ट

3529 गांवों को पानी का पखवा

20 गांवों को पानी का पखवा

7.50 गांवों को पानी का पखवा

5.5 गांवों को पानी का पखवा



मुख्यमंत्री जल स्वावलम्बन कार्यों का अवलोकन

मुख्यमंत्री जल स्वावलम्बन कार्यों का अवलोकन

श्रीमान् जिला कलेक्टर महोदय, उदयपुर के सानिध्य में नेशनल मीडिया द्वारा मुख्य मंत्री जल स्वावलम्बन अभियान, जिला-उदयपुर के कार्यों का अवलोकन किया गया - एक रिपोर्ट



मुख्यमंत्री जल स्वावलम्बन कार्यों का अवलोकन

सीएम जल स्वावलम्बन कार्यों का अवलोकन

सीएम जल स्वावलम्बन कार्यों का अवलोकन

मुख्यमंत्री जल स्वावलम्बन कार्यों का अवलोकन

माँ जगदम्बे इन्टरप्राइजेज
 (बी-कलास कौन्ट्रेक्टर, पीडब्ल्यूडी, उदयपुर) प्रो. रमन सिंह
 राम-इलाकों का खेड़ा, पोस्ट-नूतदा बाबा-कानोड़, जिला-उदयपुर (राज.) मो.: 9928988728

मेसर्स बलवीर कौन्ट्रेक्टर एवं सप्लायर्स
 (ए-कलास कौन्ट्रेक्टर, जल संसाधन)
 राम-दरा का नवागांव, त. हिंडोली, जिला-बुन्दी (राज.) मो.: 9649232894



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Irrigation systems (Minor, Micro)	:	50,000 ha. area 75,000 beneficiaries
Drinking Water and Sanitation (CCDU)	:	3,000 villages
Livelihood Enhancement and Value Chain	:	1,25,000 farmers
People's Organizations (FIGs, SHGs, FPO)	:	FIGs - 900, SHGs - 900, FPO - 5
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Contact No.: 94141 55728, 9414159734, 9413600384
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MESSAGE



Vasundhara Raje
Chief Minister Rajasthan



Message

It is good to know that the College of Technology & Engineering, Udaipur has completed its 54 years of academic excellence. Started in 1964 with one graduate programme in Agricultural Engineering, the College now runs 8 under graduate, 13 post graduate and 8 PhD programmes. The institution is also involved in a number of All India Coordinated Research Projects and other research studies in the various disciplines of Engineering.

I am happy to note that the alumni of Silver and Crystal Jubilee Batches shall go together with the faculty and students and organize an annual meet on 13th October 2018.

I wish the event the grand success.

Vasundhara Raje.
(Vasundhara Raje)

MESSAGE



Gulab Chand Kataria
Hon'ble Home Minister
Government of Rajasthan, JAIPUR

141 Machhla Magra
UDAIPUR - 313002 (Raj.)

Message

On the occasion of XVI ALUMNI MEET cum Felicitation Function under the auspices of CTAE Alumni Society, College of Technology and Engineering, Udaipur, I extend my heartiest felicitations and best wishes to all the participants.

College of Technology and Engineering is a prestigious institution not only in the state but also at national level. I appreciate the plans and efforts of the CTAE Alumni Society to organize such a function for promoting liaison between the alumni and the institution. The views of the participants on various important issues would undoubtedly foster a better understanding of the requirements of Indian society.

I wish the CTAE Alumni Society, College of Technology and Engineering, Udaipur for all success in its endeavour.

(Gulab Chand Kataria)

MESSAGE



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Maharana Pratap University of Agriculture and Technology
University Campus, Udaipur - 313 001 (Raj.) INDIA

प्रो. उमा शंकर शर्मा
कुलपति
Prof. U.S. Sharma
Vice-Chancellor

महाराणा प्रताप कृषि एवं प्रौद्योगिकी विश्वविद्यालय
विश्वविद्यालय परिसर, उदयपुर - 313 001 (राज.)

10th October, 2018




Message

I extend my heartiest congratulations and best wishes to all the alumni and their family members on the occasion of XVI ALUMNI MEET under the auspices of CTAE Alumni Society, College of Technology and Engineering, Udaipur.

College of Technology and Engineering is a prestigious institute of the state which has completed 54 years and imparting quality education in all major disciplines of engineering with the main objective of sustainable development of state and the nation. I appreciate the efforts of the CTAE Alumni Society to organize such a programme for promoting interaction between the alumni and the institution. I also congratulate the distinguished alumnus and meritorious students for their selection for various Alumnus Awards.

I wish all the success in its endeavour for this programme on October 13th, 2018.


(U. S. Sharma)

MESSAGE



Dr. K. N. Nag
Patron in Chief

Former Vice-Chancellor

Mohanlal Sukhadia University, Udaipur &
Rajasthan Agriculture University, Bikaner
NAG Cottage

110, Saheli Marg, Udaipur – 313004
Mob: 99833-18209; Tel.: 0294-2412477, 2420209
Email: knnag2001@yahoo.com

Message

I am happy to learn that CTAE Alumni Society is organizing XVI Alumni Meet cum Felicitation Programme on Saturday, the 13th October 2018. I have been associated with the college, for a very long period in various capacities and this Meet is like an opportunity to me to share time with the students, faculty and my colleagues. It's a matter of great satisfaction and pride to see that the college has further strengthened over the years, in terms of its National level ranking by NIRF, MHRD and first among the state engineering colleges excluding IIT and MNIT. Students of this college are being employed by national and multinational companies and contributing meaningfully in the economic development of country.

I am also glad to note that from this year college is inviting its alumnus as special guest and this year Er. Yogendra Kumar Dak, Secretary, Department of Forest, Government of Rajasthan has accepted the invitation.

We should look forward for welcoming the golden jubilee batch of the college next year.

I wish Alumni Meet- 2018 a grand success.


(K.N. Nag)

MESSAGE



अखिल भारतीय तकनीकी शिक्षा परिषद्
(भारत सरकार का एक सांविधिक निकाय)
(मानव संसाधन विकास मंत्रालय, भारत सरकार)
नेल्सन मंडेला मार्ग, बसंत कुंज, नई दिल्ली-110067
दूरभाष: 011-26131495
ई-मेल: vcmaicte@gmail.com

प्रो. एम.पी. पूनीयाँ
उपाध्यक्ष

Prof. M. P. Poonia
Vice-Chairman

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
(A Statutory Body of the Govt. of India)
(Ministry of Human Resource Development, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110067
Phone: 011-26131495
E-mail: vcmaicte@gmail.com



Message

I extend my heartiest felicitation and best wishes to all the participants of XVI Alumni Meet of CTAE Alumni Society under the auspices of CTAE Alumni Society, College of Technology and Engineering, Udaipur.

College of Technology and Engineering is a prestigious institution not only in the State but also at National level. I appreciate the plans and efforts of the CTAE Alumni Society to organize such an event for promoting a strong linkage between the alumni and the institution. The views of the participants on various important concerns would undoubtedly foster a better understanding of the requirements of Indian society.

I wish the CTAE Alumni Society, College of Technology and Engineering, Udaipur for all success in its endeavor.


(Prof. M. P. Poonia)

MESSAGE



Government of Rajasthan

राजस्थान सरकार

Department of Forest

वन विभाग

Room No. 7317 Food Building
Secretariat, Jaipur-302005

शासन सचिवालय, जयपुर

Tel. 0141-2227762

E-mail: ads.forest@rajasthan.gov.in

Jaipur, dated 09 October, 2018

Yoagendra Kumar Dak, I.F.S.

योगेन्द्र कुमार दक, भा.व.सेवा

Secretary

शासन सचिव

Message

Located in beautiful Aravalli hills of Udaipur, our Alma mater, College of Technology and Engineering (CTAE) has already completed its golden jubilee in the service of the nation. It is a matter of great pleasure and pride that the graduates of this Institute are serving not only in India but also in abroad and have acclaimed success in almost all walks of life. With a humble beginning in 1964, it has become a institute of repute offering a variety of courses like B.Tech, M.Tech and PhD in multiple disciplines.

The Government of Rajasthan has undertaken a very ambitious water conservation programme "Mukhyamantri Jal Swavalamban Abhiyan" (MJSA) so as to make the villages self reliant in their water needs. As a Secretary of Forest department and Secretary Incharge of Baratpur division I had the opportunity to interact with engineers graduated from the college and I am proud to share that they did exceedingly meticulous and commendable job in the implementation of this flagship program of the state government. The program has been praised by Niti Aayog, National Green Tribunal, etc.

The Alumni Society of college is actively engaged in arranging reunion of these graduates by means of felicitation programs for the graduates of 25 years and 15 years on every second Saturday of October month. These get togethers lead to reliving the post moments of the college life and strengthening of the bondages among themselves. Besides this is a great opportunity for peer learning among colleagues and valuable interaction with the present college students. I avail this opportunity to extend my warm greetings to all the alumni who are part of this felicitation program and my best wishes to all the office bearers of Alumni Society and all the faculty members for success of this program.

YK Dak
(Yogendra Kumar Dak)

MESSAGE



Dr. Ajay Kumar Sharma
Dean



College of Technology and Engineering

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Message

It is indeed a great pleasure for me that CTAE Alumni Society and students of College of Technology and Engineering, MPUAT, Udaipur are organizing Alumni Meet Cum Felicitation Programme on 13th October, 2018. It is a regular yearly event of the Alumni Association and Alumni of Silver jubilee and Crystal Jubilee batches are felicitated. Awards to the meritorious students and Alumni are also honoured every year. A SOUVENIR is also being brought out, by the alumni association, to commemorate this occasion. It is my great fortune that I have been associated with this institution as a student, a teacher and now as DEAN. I wish that institution rises to eminence with great strides.

I sincerely extend my best wishes to all the students, members of faculties and alumni of this college on this occasion; and wish all round success of the alumni meet-2018 and publication of souvenir.

(Ajay Kumar Sharma)



MESSAGE from President CTAE Alumni Society

Er. Arun Surana

B.E. (Ag.), M.A. (Socio), MBA (HR)
Life Member ISAE

I feel honoured to welcome all CTAEians at the XVI ALUMNI MEET cum felicitation programme, those who will be Present in Udaipur and also those who may not attend the programme but will be there with us by their moral support. I trust that our new executive committee will continue the tradition of felicitation programme every year.

On this occasion, I want to congratulate and thank all CTAEians who have participated or contributed whole heartedly in organising this event gathered to celebrate the alumni meet of our college, the college which provided us the environment and opportunity to achieve major goals in our life. Dr. K. N. Nag's presence and motivation is the driving factor in successful organization of the event. The event is attended by CTAEians not only from India but abroad also. Souvenir is published which is treasure to be kept for life. Organising team deserves appreciation from all CTAEians and I would like to thank them from the bottom of my heart.

One key activity which could not be completed by our predecessor but for which the process was initiated is the construction of "CTAE Alumni Office along with a Guest House". It is much essential to have a Guest House around the college premises so that we CTAEians can visit our college and remember our memories by staying in the campus. I appeal to all of you to donate funds for its construction so that next time you visit Udaipur, you can stay in our guest house.

I thank my colleague Dr. Chand Mal Tejawat on the successful completion of tenure as President of CTAE Alumni Society and members of executive committee members, Batch/City Coordinators, conveners & members of various organising committees, institutions/ organisations/ agencies/individuals and all Ex-Presidents of CTAE Alumni Society who guided and helped me for this event. I would like to thank Dr. K. N. Nag, Vice Chancellor Sir, Dean CTAE Dr. Ajay Kumar Sharma, faculty members & staff of CTAE, who have worked day and night to make this event memorable. I take this opportunity to invite your suggestions and feed back (through mail or hard copy) about improvement of Alumni activities so that we can work on the Path suggested by all of you.

My best wishes to all CTAEians and their family members for their bright future and better life.


(Arun Surama)

सचिव की कलम से...



डॉ. आर. सी. वर्मा
मानद सचिव
सी.टी.ए.ई. एलुमनी सोसाइटी

सौलहवें पूर्व छात्र समागम व सम्मान कार्यक्रम में सीटीएई एलुमनी सोसायटी की ओर से एवं व्यक्तिगत तौर पर सभी का एलुमनी छात्र एवं उनके परिवारों का हार्दिक स्वागत अभिनन्दन । सीटीएई ने गत 54 वर्षों में उत्तरोत्तर प्रगति करते हुए सफलताओं के सोपान कायम किये हैं । कभी सिर्फ कृषि अभियांत्रिकी संकाय से शुरू होने वाले इस कालेज में आज करीब सात संकाय हैं जिसमें अभियांत्रिकी की शिक्षा प्रदान की जाती है । आज इस महाविद्यालय के एलुमनाई छात्र शक्ति 5000 से अधिक है ।

सोसायटी द्वारा विगत वर्षों में एलुमनी द्वारा प्रदत्त विशेष सहयोग राशि के ब्याज से BE (Ag) के द्वितीय एवं तृतीय वर्षों के दो-दो टॉपर्स को नकद राशि प्रदान कर सम्मानित किया जा रहा है । गत वर्ष से इसी महाविद्यालय के पूर्व छात्र Er. R.K. Vyas ने टेबल टेनिस में प्रथम रहे एक छात्र को चार साल तक 2500 रु नकद राशि देने की घोषणा की थी जिसे गत वर्ष से आरम्भ भी कर दिया गया है । इस वर्ष से माइनिंग अभियांत्रिकी के तृतीय वर्ष में प्रथम दो छात्रों को भी नकद राशि दे कर सम्मानित किया जा रहा है । इसके लिए भी माइनिंग विभाग के पूर्व छात्रों ने सोसायटी को राशि प्रदान की है । इसी तरह से विद्युत एवं यांत्रिक विभाग के भी द्वितीय एवं तृतीय वर्षों दो-दो टोपर्स को भी श्रीराम कोटा के सहयोग से प्राप्त नकद राशि प्रदान कर सम्मानित किया जा रहा है ।

सोसायटी की कार्यकारिणी को आप सभी का तन-मन-धन से सहयोग मिलता रहा है जिसकी बदौलत "एलुमनी मीट" का सफलता से आयोजन किया गया, इस हेतु आप सभी का बहुत-बहुत आभार । सौलहवें समागम को सफल बनाने में कार्यकारिणी के सभी पदाधिकारी, सदस्य एवं विभिन्न कमेटियों के अध्यक्ष एवं उनकी टीम का बहुत-बहुत आभार । इस सबके बावजूद भी कुछ कमियां एवं त्रुटियाँ रहना स्वाभाविक है जिसके लिए मैं व्यक्तिगत रूप से जिम्मेदार एवं क्षमाप्रार्थी हूँ ।

!! दीपावली एवं नूतन वर्ष की शुभकामनाओं सहित !!

(आर सी वर्मा)



Dr. Mahesh Kothari



Dr. Sanjay Jain



Er. S. S. Vyas



Dr. V. K. Chahar

Editorial

We feel delighted in bringing out this souvenir on the occasion of XVI ALUMNI MEET Cum Felicitation Programme Which the CTAE Alumni Society is solemnizing on Saturday, the 13th October 2018. This souvenir includes the family photographs and relevant details about the alumni of Silver Jubilee (1993) and Crystal Batch (2003). We are sure that the souvenir will serve its purpose and will receive appreciation from all corners.

Our alma mater has strengthened tremendously, over the period, in terms of faculty and infrastructural facilities, Several new post graduate programmes of engineering and technology have come up. The graduates are finding openings in national and international institutes / companies and contributing immensely in technological advancement of the nation. An effort has been made, to place before all of you, noteworthy infrastructural and academic excellence made by our alma mater, over the years.

We convey our sincere thanks to all the advertisers for their financial contributions to felicitate the publication of this souvenir. We also thankful to Mr. Jaisa Ram and Vikas Singh Atray from M/s Apex Printing House, Udaipur for publishing the souvenir beautifully and on time.

Editors

Executives of Alumni Society 2015-18



Dr. K. N. Nag
Patron in Chief



Dr. Ajay Kumar Sharma
Dean & Patron



Er. Arun Surana
President



Dr. R. C. Verma
Honorary Secretary



Er. S. B. Sahay
Vice President-I



Er. Vipin Laddha
Vice President-II



Dr. Subh Karan Singh
Joint Secretary-I



Dr. V. K. Yadav
Joint Secretary-II



Dr. S. C. Jain
Treasurer



Dr. C. M. Tejawat
Ex-Officio-President



Dr. N. K. Jain
Ex-Officio-Hon. Sec.



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Member



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FLASHES OF ALUMNI MEET - 2017



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सत्यमेव जयते

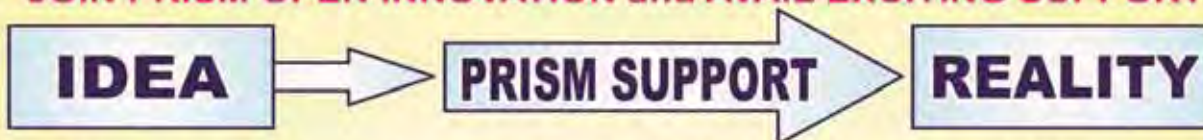
PRISM

TePP Outreach cum Cluster Innovation Centres (TOCICs)
Department of Scientific & Industrial Research
Ministry of Science & Technology, New Delhi



College of Technology and Engineering

JOIN PRISM OPEN INNOVATION and AVAIL EXCITING SUPPORT



PRISM along with its network partners provides grants, technical guidance and mentoring to individual Innovators by incubating their idea towards creation of new enterprise in phases. PRISM provides grant In-aid support to technology solution providers developing technology solutions aimed at helping MSME clusters. Proposals are now invited from individual innovators, students, and technology solution providers on the following for financial assistance.

Program	Eligibility
Category-I: Proof of Concept/Prototypes/Models ♦ Project cost up to Rs.5.00 lakh. ♦ Maximum support is limited to Rs. 2.00 lakh or 90% of the total project cost whichever is lower.	Any Indian citizen including student innovator can avail support to develop their novel idea into demonstrable models/prototypes
	Any Indian citizen having innovative ideas to convert them into working models/prototypes/processes
PRISM- Phase-II ♦ Project cost more than Rs.35.00 lakh & up to Rs.100.00 lakh. ♦ Maximum support is up to Rs. 50.00 lakh limited to 50% of the total project cost. The support may be provided for scaling up technology based innovations, including patenting/design registration/trademark registry/ technology transfer to develop a marketable product/ process towards enterprise creation	Successful PRISM innovators or innovators who have successfully demonstrated proof of concept with the support of government institution/agency. Limiting Conditions: The proposal will be considered for support only after thorough scrutiny and by adopting robust evaluation and appraisal criteria for screening by involving technical and financial experts.
PRISM-R&D Proposals Maximum support is up to Rs. 50.00 lakh, limited to 50% of the total project cost for developing technology solutions aimed at helping MSME clusters.	Public Funded - R&D institutes/autonomous institutions/laboratories/academic institutes etc. Limiting Conditions: The proposal will be considered for support only after thorough scrutiny and by adopting robust evaluation and appraisal criteria for screening by involving technical and financial experts.

If interested ----- Apply today!

Interested individual innovators, Institute and technology solution providers may contact at the address given below.

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Prof. & Coordinator TOCIC
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For more details and application forms please visit DSIR
Web site <http://dsir.csir.res.in/webdsir/#files/12plan/prism/prism.html>

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After completing my engineering I had short stint with IARI (Indian Agriculture research Institute) as research associate.

Thereafter I went on to do MBA marketing from Devi Ahilya University Indore. 1995 to 1997.

I was credited with achievement of launching the Kalam Raju stent named after two notable scientists namely Dr APJ Abdul Kalam late ex-President of India and Dr Somuraju the chairman of care group of hospitals Hyderabad. Kalam Raju stent is India's first endovascular prosthesis developed by DRDO. Thereafter I worked for Multinational companies like BD, Baxter and Quest Diagnostics right now I am promoting my own venture "Bright Distributors" catering to 75 to 80 Hospital setups in Delhi NCR.



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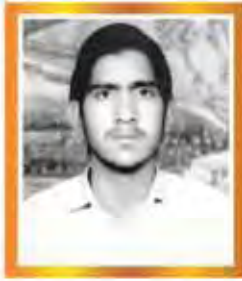
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Hemendra has over 22 years of experience in venture capital, private equity, management consulting and investment banking. Hemendra has investing experience in food processing and agricultural supply chain. He is a mentor, investor and board member with several food-tech and ag-tech start-ups working on innovations in agri-inputs, market linkages, mechanization, food nutrition and farmer financing. Hemendra is working as Venture Partner with Bharat Innovation Fund. In his previous assignments, he has worked with SEAF, Yes Bank, Rabobank, KSA Technopak and ORG-MARG, He has authored many papers on the subject and speaks regularly at conferences pertaining to food and agribusiness sector. He is a management graduate from IIM (Ahmedabad) and Agricultural Engineer from Rajasthan Agricultural University.



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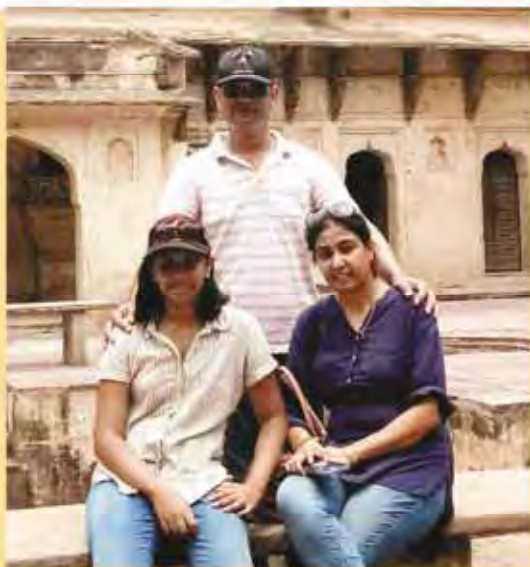
After completing Engg nd MBA ... Was in Corporate world for around 2 years ... Then by grace of God I got opportunity to start my venture JUSRA International Jewels in Jewelry designing nd Manufacturing. In last 15 years did around 800 Exhibitions all over India nd World displaying my products At present have Jewelry Boutique at my place only ... enjoying my life with my family nd exploring myself thru my passions like Adventures Biking Photography Cycling Mountains etc. My life partner is like my friend ... Multitalented , mangaes her profession kids and home in the best possible way. My elder son Aasmaan is in 10th standard nd apart from studies, he is very much into Reading, Football nd Fitness. Yuvraj the younger one is in 3rd standard , avid lover of eating Cheese nd Badminton, is in image of his brother full of life nd laughter !!!



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Pursuing my passion of uniform (NCC at CTAE) n Chess (4 Times University Champion), I joined Indian Military Academy, Dehradun in Jan 1995. I was commissioned into Regiment of Artillery in Jun 1996. After 5 Years of service was selected to undergo MSc (Weapon Technology) from University of Pune and earn the coveted tag of "Instructor of Gunnery". I was bestowed with the honour of the command of an artillery unit in Baramulla, Kashmir Valley in year 2012-13. Having served for 22 years in length n breadth of country, I am recently posted at Bikaner Military Station in the rank of Lieutenant Colonel in Headquarters 8 Infantry Brigade. Chess, however never took a back seat and I continue to be a member of Army Chess Team n play for services.



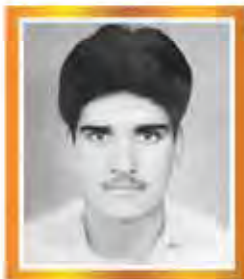
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After completing my Masters in Financial Management in 1997 at the Institute of Management Studies, DAVV, Indore; I started my career handling Imports in a multinational corporate group and after a few initial years in Corporate Finance field at Mumbai, I started my entrepreneurial journey in 2003 by launching an own 100% export oriented company. I have a very soft corner towards education sector & hence some 5 years back established a rural school with lot of social cause. Having experienced the ups-n-downs in the business world, I'm always very keen for start-ups with new ideas & vigour to face the challenges & uncertainties of ever changing business world.



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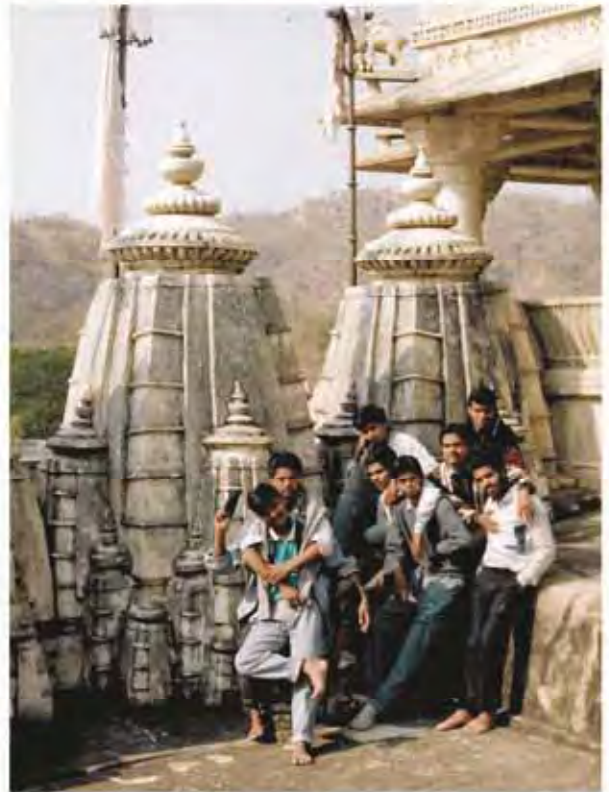


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COLLEGE OF TECHNOLOGY AND ENGINEERING

The college started in 1964 to generate Agricultural Engineering graduates. This college now also offers the degree programmes in Computer Science and Engineering, Mechanical Engineering, Electrical Engineering, Mining Engineering, Electronics and Communication Engineering and Civil Engineering. MBA (Engineering and Technology) programme is also started from this academic session. All programmes have been approved by the AICTE. The admissions in all the disciplines are accomplished through state level centralized REAP.



The college has been awarded as best Institution of Northern India by NITTTR, Chandigarh. The college has been ranked 82nd Institute in engineering Institute category by NIRF, MHRD, Govt. of India for year 2016. The college has also been accredited by ICAR in year 2016 for five year. The college has also got accreditation from National Board of Accreditation (NBA), MHRD for five undergraduate branches viz., Agricultural, Civil, Electrical, Mechanical and Mining Engineering. The college has got accreditation from National Board of Accreditation (NBA), MHRD for five post graduate courses viz., Farm Machinery and Power Engineering, Processing and Food Engineering, Soil and Water Engineering, Renewable Energy Sources and Electrical Engineering.

Academic Programmes

The following programmes are offered at CTAE, Udaipur :

Bachelor of Technology (8 Semesters Programme)

It is offered in Agricultural Engineering, Computer Science & Engineering, Mechanical Engineering, Electrical Engineering, Mining Engineering, Civil Engineering and Electronics & Communication Engineering .

Master of Technology (4 Semesters Programme)

M. Tech. degree is offered in the following disciplines with area of specialization are mentioned as:

Agricultural Engineering

- Processing and Food Engineering
- Farm Machinery and Power Engineering
- Irrigation & Water Management Engineering

- Soil and Water Conservation Engineering
- Renewable Energy Engineering

Electrical Engineering

- Power Electronics

Civil Engineering

- Structural Engineering

Mining Engineering

- Mine Planning

Computer Science & Engineering

- Computer Science Engineering

Mechanical Engineering

- Computer Aided Design (CAD) /Computer Aided Manufacturing (CAM)

Electronics and Communication Engineering

PhD by Course Work (6 Semester Programme)

Doctoral Programme by course work is offered in the following disciplines :

- | | |
|---|---|
| • Processing and Food Engineering | • Soil and Water Conservation Engineering |
| • Farm Machinery and Power Engineering | • Renewable Energy Sources Engineering |
| • Irrigation and Water Management Engineering | • Electrical Engineering |

DEPARTMENT OF CSE AND DEPARTMENT OF IT

The Department of Computer Science & Engineering is fully committed to provide need based quality education to the budding Engineers so that they can not only contribute to the development and prosperity of the society and the nation but also build a leading and successful career in this direction.

The department was established in the year 2000 to meet the requirements of the emerging CSE and IT industry/discipline after the consultation with various stakeholders. The B.Tech in IT was started in year 2007-08. Subsequently in the year 2010-11 the post graduate (M. Tech – CSE) program and in the year 2012-13 the PhD (PhD in CSE) was started.

The Department seeks to impart knowledge among students to develop latest technological skills with value based education among students to facilitate their development as successful and competent professionals for the nation. The curriculum is also updated as per the current needs of the industry and academia to promote research and development in frontier areas of Computer Engineering. Various national and International seminars and conferences have been conducted to provide opportunities for research, continuing education, faculty up – gradation and development of human resources in new and cutting edge technologies.

The computing facility throughout the department is connected to internet and National Knowledge Network, which helps the students to access the quality resources from the internet regarding their laboratory work and also to strengthen their concepts.

Besides making available online books and journals and other internet based study material, expert lectures are regularly delivered by in house faculty, experts from institutes of higher learning and industry on topics related to various courses. Various e-learning technologies are available like: Computer aided assessments, discussion boards, Smart classrooms, Educational animations, Web-based teaching materials, etc. A strong Industry-Institution interface is being maintained. Professionals from Industries, renowned researchers from reputed national level laboratories as well as experienced faculty members

from reputed national level technical institution regularly visit the department to deliver special lectures/invited technical talk on specialized subjects in the various conferences, seminars, workshops organized by the departments. This helps the students to understand the latest developments in the field. The College also provides IEEEExplore connectivity along with access to other reputed journals and conference proceedings to the student free of cost to facilitate the students to be aware of latest research activities in the field of computer engineering.

The alumni of department are placed in highly reputed multinational organizations like TCS, Infosys, Accenture, Aricent, Birla Soft, Capgemini, Cognizant Technology Solutions, EMC2, Emphasis, Ericsson, HCL Technologies, Hewlett-Packard, Hexaware Technologies, IBM, L&T Infotech, Patni computers, Satyam, Secure Meters, Tech Mahindra, US Technologies, VMWare, Wipro, etc. Some of the alumni have chosen to pursue higher studies from eminent institutions of the country such as IIT's, IIM's, NIT's, GIM, BITS Pilani, NMIMS, Mudra Institute of communications Ahmedabad, etc.

Symposiums, workshops, conferences and seminars of national and international levels are organized by department in cooperation with renowned professional societies such as **Institution of Engineers IE(I), Computer Society of India (CSI) etc**

The department of Computer Science & Engineering is enriched with computing facilities like well equipped laboratories with modern computing environments, ventilated and well furnished classrooms; we provide a pleasant working environment for students to undertake their practical and assignment work. Final year students have entire lab at their disposal to carry out their project work with high speed internet connectivity to help them accomplishing their research objectives. The Computer Science and Information Technology Department together has 10 labs dedicated for different purposes. One Well Furnished Computerized Seminar Hall with 56 computers and Multimedia facility is also available in the department to facilitate mass lectures, Conferences, Seminars.

PROGRAMMING LABORATORY

- **Hardware:** Computer quantity: 27, Company- Lenovo, Processor- AMD Athlon Dual Core, RAM- 2GB, HDD-40 GB, Monitor-18TFT, Keyboard, mouse
- **Quantity:** 3, Company- Hp, Processor- Intel Core2 Duo, RAM-2GB, HDD-320 GB, Monitor-18.5" TFT Keyboard, mouse.
- **Computer quantity:** 1, Company- HP, Processor- Intel Core2 Duo, RAM-2GB, HDD-320 GB, Monitor- 18.5" TFT Keyboard, mouse.
- **Software:** Turbo C3.0

This lab is dedicated to first year students. Students are welcome any time to lab, to perform the assignments.

**MICRO PROCESSOR & DIGITAL LOGIC DESIGN LABORATORY**

- **Hardware:** Microprocessor Kit XPO-85, Quantity- 15, Company- Anshuman Tech Pvt. Ltd.
- **Digital Model Circuits:** Quantity- 33
- **Software:** XPO-85, 8086 emu, MASM

**OBJECT ORIENTED LABORATORY**

- **Hardware:** Computer quantity-24
- **Company:** Hp, Processor- Intel core i7, RAM- 4GB, HDD- 500 GB, Display LED, Keyboard, Mouse.
- **Projector** (ceiling mounted), quantity – 1, Sharp Note Vision XR-40X.
- **Software:** My Eclipse, Net beans IDE, Java SE Development Kit 1.8, Ubuntu

**NETWORKING LABORATORY**

- **Hardware:** Computer quantity-5, Company- Dell, Processor- Intel core i5, RAM-2GB, HDD-320 GB, Monitor-18.5" TFT Keyboard, mouse.
- **Computers:** Quantity-10, Company- HP, Processor - Intel Core i7, RAM-8GB, HDD-1 TB, Monitor-18.5" TFT Keyboard, mouse.
- **Computers:** Quantity-5, Company- HP, Processor - Intel core i7, RAM-4GB, HDD-500 GB, Monitor-18.5" TFT Keyboard, mouse.
- **Software:** NS2, Packet Tracer, Ubuntu



SEMINAR HALL (SOFTWARE ENGINEERING LAB)

- **Hardware:** Computer quantity-56
- **Company:** Hp Processor- Intel Core 2Duo, Ram-2GB, HDD,160GB, Monitor-17" TFT,Keyboard, mouse.
- **Smart Class Room:** Touch Screen Monitor Lumen PS750 Wireless tablet X867, Wireless touch white board, touch pen, eraser etc., MIC system- Unisound UPA-1200 receiver collar.
- **Projector**(ceiling mounted), quantity – 1, Sharp Note Vision XR-40X.
- **Software:** Rational Rose, Ubuntu



PROJECT LABORATORY

- **Hardware:** Computer quantity: 30 Company- HP, Processor- Intel Core i7, RAM- 8GB, HDD- 1TB, Monitor- 18.5" TFT, Keyboard, mouse.
- **Software:** GNS3, Apache Tomcat, MySQL, Oracle, XAMP, .NET Framework

This lab is 100% dedicated for final year students for their project work. Only the final year students have access to this lab.



DBMS LABORATORY

- **Hardware:** Computer quantity: 30, Company- Dell, Processor- Intel i5, RAM- 2GB, HDD- 320GB, Monitor- 18" TFT, Keyboard, Mouse.
- **Projector** (ceiling mounted), quantity – 1, Sharp Note Vision XR-40X.
- **Blade Server**, Computer Quantity-15, Company-Dell, Processor- Intel Core i7, RAM- 8GB, HDD- 1TB, Monitor- 19.5", Keyboard, Mouse.
- **Software:** Ubuntu, Hadoop, Statistica, PostgreSQL



PG RESEARCH LABORATORY

- **Hardware:** Computer quantity: 12, Company- Dell, Processor- Intel Core i5, RAM- 2GB, HDD- 320GB, Monitor- 18.5" TFT, Keyboard, Mouse.
- **Projector** (ceiling mounted), quantity – 1, Sharp Note Vision XR-40X
- **Software:** Ubuntu, software required by individual PG student



DEPARTMENT OF ELECTRICAL ENGINEERING



The department of electrical engineering was established in the year 1957 offering diploma in electrical stream. Under-graduate program was started in 1996 with discontinuation of diploma program. M. Tech program in power electronics was started in 2010 & PhD program in 2011. Department's UG program (B. Tech.) is accredited by National Board Accreditation in 2016 which is a feather in it's cap. It is a matter of pride that recently two PhD research scholar seats under QIP have been accorded to Electrical Engineering Department & Interestingly a 100 KW grid connected roof-top solar Plant have been installed in 2016 on the roof of the Electrical Engineering Department.

Vision

The Electrical Engineering Department was established with a vision of making it a centre for imparting technical education of high standards and conducting research at the cutting edge of technology to meet the current and future challenges of technological development.

Mission

- To offer high quality graduate and post graduate programs in Electrical Engineering.
- To prepare students for professional career or higher studies.
- The department promotes excellence in teaching,

research, collaborative activities and positive contributions to society

Infrastructure

The Department has over 11 well equipped laboratories and operates its own library, offering facilities in all areas of Electrical Engineering. Lab manuals authored by department faculty have also been provided in every lab as an aid to the students. The Department is well equipped with a number of PCs and workstations hosting several software packages, and linked through a local area network. Internet services are available to all students and faculty. Department has recently developed electrical testing and calibration facility to support local industry and to impart practical knowledge to students in the field of preventive maintenance of electrical equipments.

Students' Achievements

The students reflect true growth and glory of institution, our students have projected themselves in various national & international conferences, technical events and stood victorious in many sub events, & employed in MNCs, public sector, private sector, as a consultant for professional practice, abroad for higher studies doing this they have uplifted the name of College and Department across the nation by rendering extraordinary services to nation and society.

DEPARTMENT OF RENEWABLE ENERGY ENGINEERING

The Department of Renewable Energy Engineering was established in the college in the year 1981, with the objectives of carrying out teaching, research & extension activities in the field of Renewable Energy looking to the abundant resources available in the area of non-conventional energy and its contribution to the energy security, ecological balance & environmental protection in the fast changing scenario. The department acquired national and international fame within a short span and contributed number of technologies in the field of renewable energy. Post graduate courses were started viz. M. Tech. (REE) in the year 1986 & Ph.D. (REE) in the year 1999. The Ministry of New & Renewable Energy, Govt. of India also recognized its M. Tech. & Ph.D. degrees for the award of fellowship to deserving candidates for undertaking research in the field of renewable energy.

The department is actively involved in teaching UG and Post Graduate students and extensive research in the field of solar, biogas, slurry management, biomass gasification and biomass production and also extension activities related to new and renewable energy sources at the village level with the objectives given as under:-

1. To create a strong base for use of new & renewable energy sources in agriculture for increased production and for meeting out domestic energy requirement.
2. To create awareness for rural development through recycling of locally available organic waste for energy use and manure availability.
3. To offer postgraduate programme in Renewable Energy Engineering leading to M. Tech.(Ag), Ph.D. in renewable energy and courses for undergraduate engineering students of other streams.



4. To guide and encourage graduate and post-graduate research projects to the students of different disciplines.

Lab and other Facilities in the Department

- Biogas Appliances Testing Lab with all related equipment as per BIS
- Biomass Power Lab: Gasifier, Stirling engine, duel fuel engine, briquetting machine, Junkers Gas Calorimeter, Smoke Meter, Non contact tachometer.
- Solar Energy Lab-Pyranometer, Pyreheliometer, Sunshine recorder, Multi channel digital data logger, hot wire anemometer, 3 kW solar photovoltaic array.
- Demonstration and Testing of improved cook-stove lab: Different cook-stoves models, moisture meter, K-type thermo couple, noncontact thermometer.
- Microbiology Lab: UV Visible Spectrophoto-meter, Gas chromatograph, nitrogen analyzer, TGA analyzer.
- Open Lab (Solar/Biogas/IC yard): Different working model of biogas plants, solar dryers and improved cookstoves.

COURSES OFFERED

Programme	Field of Specialization	Duration	Sanctioned Strength
B. Tech. (Ag.)	Agricultural Engineering	8 Semester	55
M.Tech. (Ag.)	Renewable Engineering	4 Semester	08
Ph.D.	Renewable Engineering	6 Semester	05

- Seminar Room/ UG Classroom having 50 seating capacity: A.C. Hall with all modern A.V. Aids.
 - P.G. Class Room: A.C. lecture hall with A.V. aids.
 - Engineering Workshop (250sq.m.): Lathe, cutting, welding, drilling, sheet bending, carpentry & other machines.
 - PG Computer Room: Computers with internet for PG students.
 - Experiential Learning Lab I & II with lecture hall: Hands on Training to final year B.Tech. (Ag.) Students on renewable energy appliances
- Important Technologies Developed**
- i) Solar tunnel dryer for industrial and agriculture product's safe and fast drying
 - ii) Masonry solar cooker for animal feed preparation
 - iii) Low cost domestic and farm solar dryer.
 - iv) Masonry distillation unit for obtaining potable drinking water in saline/fluoride rich areas
 - v) Willow dust based biogas plant
 - vi) Kitchen waste biogas plant
 - vii) Improved cook stoves efficient design
 - viii) Solar Concentrator for thermal applications in selected Industries
 - ix) Integrated Biomass Combustor and Solar Drying system for processing of Turmeric
 - x) Producer gas burner for thermal applications.
 - xi) Solar concentrator for milk pasteurization.
 - xii) Low cost solar water heater.



Ongoing Projects in the Department

Title of the Project	Amount Sanctioned	Funding Agency
All India Coordinated Research Project on Renewable Energy Sources: • Solar Energy Component • Bio-energy Component • Thermo-chemical Conversion Technology (TCCT) • ORP	Rs. 97 lakh/annum	ICAR, New Delhi
Biogas Development and Training Centre	Rs. 35 lakh/annum	MNRE, GOI
Consortia Research Platform	Rs. 13 lakh/annum	ICAR, New Delhi

DEPARTMENT OF CIVIL ENGINEERING



Department of Civil Engineering was established in year 1965. The department is offering B-Tech. degree program since 2007-08 with intake capacity of 40 students & M.Tech (Structural Engineering) since 2012-13 with intake capacity of 8 students.

It also offers core courses to other branches of engineering like Mechanical, Electrical, Mining, Agriculture, Electronics & Communication and Computer science and Engineering, etc. It offers various courses related to civil Engineering and support research project work of PG students in Agricultural Engineering. Some of the courses, offered by department to agricultural Engineering graduates are surveying, Soil Mechanics and Fluid Mechanics, Structural Design, Estimating and Costing, Engineering Drawing, Engineering Mechanics, Building Construction and Strength of material etc. Some of these courses are offered to other branches of engineering. Experienced qualified and research oriented faculty caters the need of present modern technology in the field of Civil Engineering.

Major Equipments in the Laboratories



Total Station

This is a digital surveying instrument which is extremely useful for all kind of field survey.



Triaxial Testing Machine

It is a shear test apparatus for soil.



It is a digital compression testing machine used for testing of cement, concrete, bricks etc.



The Universal Testing Machine (Capacity- 100 Tonne) is used for various testing like beam in bending, shear test, tension test of steel bars, bend and rebend test, compression test etc.

Laboratories and Facilities

Name of the Laboratory	Major Facilities
Concrete Technology	Pan mixture, UPV, Rebar Locator, Digital Hammer, Corrosion Analyzer and Core Cutter, Digital Compression Testing Machine (200 ton), Concrete Permeability Apparatus, Los Angles Abrasion Machine, Data Acquisition System for Strain Measurement.
Material Testing	Computerized U.T.M. (100 tons) , U.T.M. (20 tons), Compressive Testing Machine, Torsion Testing Machine, Hardness Testing Machine, Photo Elastic Bench etc.
Geotechnology and	Tri-axial Shear test apparatus, Three gang consolidometer, CBR Test, Bitumen Extractor, Transportation Ductility Measuring Equipment etc.
Surveying	Total Station, DGPS, Optical Theodolite , Automatic level, Digital planimeter etc.
Public Health Engineering	BOD incubator, Turbidity meter, pH meter, Distilled water unit.
Engineering Mechanics	Various test set-ups for better understanding of principles of mechanics.
Computational	25 no. core 2 duo processor High-end computers, Heavy duty laser printer, scanner Software- Autocad, SAP, ETAB, STAAD Pro V8i
Durability and N. D. T. Lab	Automatic CTM(300 t), Fatigue testing machine, Carbonation chamber, Rapid chloride penetration apparatus, Abrasion testing machine & Water permeability apparatus
Model lab	Models of various types of structures.
Drawing Halls (Two)	120 students capacity
Seminar Hall	80 Students Capacity

DEPARTMENT OF MECHANICAL ENGINEERING

Vision

To provide mechanical engineers of highest calibre who would engage in research, design and development to help building the nation towards self reliance in her technological need. To become a centre of excellence in education, research and technological service to the nation for its need in design and manufacturing independence.

Mission

To promote academic growth in the discipline of mechanical engineering by offering state-of-the-art undergraduate, postgraduate and doctoral programmes. To arm the graduates with latest technologies and knowledge of applying them for finding technically feasible and economically viable solutions of the problems of manufacturing sector and to make them globally competitive. To create an ambience of academic excellence in which new ideas, research and entrepreneurship flourish and from which the leaders and innovators of tomorrow emerge.

INTRODUCTION

The department of mechanical engineering was established in year 1957 offering diploma in mechanical engineering. Undergraduate program in the mechanical engineering was started in 1996 discontinuing the diploma program. PG program was introduced in year 2004 with specialisation in CAD/CAM. Currently the department has an annual intake of 40 students through the state level admission test in B.Tech. and 8 in M. Tech.

CURRICULUM

The curriculum of Mechanical Engineering is comparable with the best in India and is as per the AICTE guidelines. It spreads into 8 semesters (4 years) and lays equal emphasis on all major fields of mechanical engineering viz. Design engineering, Production & Industrial engineering, and Thermal engineering. The students are taught many courses to develop a sound theoretical knowledge in the analysis



and design of mechanical systems. They also learn all major production processes. They are also taught thermodynamics, thermal engineering, refrigeration and air conditioning.

Students are given a good experience in computational techniques and latest software, computer aided design and drafting including AutoCAD, Mechanical Desktop, advanced manufacturing processes. A host of electives in the final year allow the students to acquire knowledge of latest areas of their interest like Finite Element Method, Computer Aided Manufacturing, etc. The project in the final year allows the students to apply their knowledge to a real life situation depending upon their interest such as design, fabrication or testing, etc. The students are required to undertake a total of 60 days in-plant practical training.

The PG program of the department is designed to cater the need of industry in the areas of design and manufacturing. The curriculum strengthens the core competence of the students in designing manufacturing systems and maintain sustain ability and competitiveness in the present market. The objective of the program is to develop manpower for academic and industrial career.

FACILITIES

The department has all the basic, and many advanced laboratories with modern equipment and machinery to enable it to remain in the forefront of technology. The following laboratories are there in the department:

LABS OF DEPARTMENT AND MAJOR EQUIPMENT	
1. HEAT ENGINES LAB	IC engine test rigs-Petrol, Diesel, VCR Engine. Emission monitoring apparatus, Fuel property apparatus
2. STEAM LAB	Oil-fired Boiler, Steam Engine, Models
3. HEAT TRANSFER LAB	Experimental setups for conduction, convection, radiation, heat exchangers
4. REF. & A.C. LAB	Test rigs for Vapour compression Ref., & Forced Drought Cooling Tower, Cold Storage Test Rig
5. FLUID LAB	Flow experimental Setups. Turbine test rigs- Kaplan, Francis, Pelton Wheel, Hydram, pump test rigs
6. METROLOGY LAB	Ultrasonic flaw detector, Ultrasonic thickness gauge, Hardness tester, Profile projector
7. CAD LAB	20 Core-2 Duo, 3 HP Workstations, 7 P-IV Computers, CNC Trainer, Softwares - AutoCAD, Ansys, Pro/E, CATIA, Abaqus, HyperWorks.
8. CAM LAB	CNC Vertical Milling Machine- Model VMC400; Hydraulic Actuation Trainer with LabView interfacing, Pneumatic Actuation Trainer, CNG Lathe
9. DYNAMICS LAB	FFT Analyser, Vibration Condition Monitoring Equipment, Gyroscope, Governor, Balancing, Whirling Apparatuses
10. INDUSTRIAL ENGG. LAB	Performance Rating, PIN Board, Assembly Process Chart
11. INSTRUMENTATION LAB	Tutors for various Transducers, Pressure Gauge Calibration

The labs are well equipped with modern and latest equipment like Dual channel FFT analyser of B&K make, tool room microscope, Air-conditioning tutor, refrigeration tutor, IC engine test rigs, heat transfer rigs, hydraulics turbines, etc. The CAD lab has a number of latest computers and software like AutoCAD, ANSYS, etc. with free access to all the students and faculty for their teaching and research needs.

There is a well equipped workshop with all the regular shops acting as a central facility catering to the instructional needs of all the students of the college. The machine shop is particularly well equipped with

turret lathe, CNC lathe, Electro Discharge Machine, Radial Drilling Machine etc. along with a number of conventional machine tools.



Students working in smithy shop



Students working in machine shop



CNC Vertical Milling Centre



Vapour compression refrigeration test rig



Turbine test rig



Heat Transfer Lab



Workshop equipments



IC engines test rigs

WORKSHOPS OF DEPARTMENT WITH MACHINES

1. MACHINE SHOP	Machine shop has 15 Lathes, 4 Shapers, 2 Milling, Turret and Capstan lathes, Planer
2. FITTING SHOP	Radial Drilling, Bench Drilling, Bench vices, Electro Discharge Machine
3. FOUNDRY SHOP	Oil fired furnace, Cupola, Muller, Mouldbox shaker, Moulding sand testing apparatus
4. WELDING SHOP	MIG welding machine, Arc welding, Gas welding
5. CARPENTRY SHOP	Work bench vices, Tools
6. PATTERN SHOP	Work bench vices, Tools
7. SMITHY SHOP	Open hearth furnaces, Power hammer, Anvils
8. SHEET METAL SHOP	Sheet bending press, Screw press
9. PLUMBING SHOP	Die stock and sets, Tools, Vices

SERVICES

The department extends a variety of services to other department of the college and the university from its workshop. The central workshop provides its facilities for the fabrication and production requirements of all the students of the college during their projects.

The department extends services to the industry of the region by way of providing research and consultancy on regular basis in the areas of machine design, production engineering, etc.

The department also regularly undertakes short term faculty improvement programs in specialised subjects and topics for the faculty members of other engineering/polytechnic colleges of the country.

RESEARCH

The department has been undertaking research projects sponsored by various agencies viz., AICTE, PCRA, DST, etc. The faculty is mobilising good amount of grants in development of technologies and furtherance of research. State of art research facility has been created in the area of biofuels for IC engines with the help of grants received.

FACULTY

The department has a sanctioned strength of one professor, 3 Associate Professors, and 12 Assistant Professors. This faculty is assisted by 9 Technical

Assistants and a number of experienced supporting technical and non technical staff. The faculty is fully qualified mostly with doctoral degree and good teaching experience.

STRENGTHS

The students of Mechanical Engineering discipline are specially trained in the fields of newer production methods including CAM, thermal engineering with special emphasis on IC engines, heat transfer and refrigeration-air conditioning aspects, Design engineering including vibrations and failure analysis. The students are well versed with latest computational and software tools for above areas. Evaluation of student is based on his consolidated performance during all semester examinations organised by the University on ten point grading system as per AICTE norms.

PLACEMENTS

A number of students have qualified in competitive examinations like CAT, GATE, GMAT, GRE, TOEFL, IES and scored good scores. Many of them found placement in esteemed organisations like L&T, TCS, Binani Cements, Lohia Machines, NEI, IAF, Mukund Steel, Pyrotech Ind., Gujarat Ambuja Cements, Veedol, etc.. Many others proved good entrepreneur and are running their own undertakings.

DEPARTMENT OF PROCESSING AND FOOD ENGINEERING

Department of Processing and Food Engineering is presently engaged in teaching of various courses of undergraduate (B. Tech. in Agriculture), postgraduates (M. Tech. in Processing and Food Engineering and in Post Harvest Engineering) and Ph.D. (Processing and Food Engineering). The department has well equipped teaching and research facilities along with 25 staff members. All the teaching faculties are professionally sound with doctorate degree and rich experience of teaching and research. Presently seventeen post graduates and eight Ph D Scholars are pursuing their studies in the Department. Research and development related to processing and value addition of food materials is also being carried out.

Vision: "To be a centre of excellence which integrates all facets of food Engineering, entrepreneurship and management and be recognized as the focal point for catalyzing the growth of the food processing industry in India in the global context."

Objectives:

1. To provide a strong base of agricultural processing and food engineering in the undergraduate

programme leading to B.Tech. (Ag.) Degree.

2. To offer post graduate programme in agricultural processing and food engineering leading to M.Tech. (Ag.) degree in Processing and Food Engineering.
3. To offer courses in Agricultural Processing and Food Engineering leading to Ph. D. degree in Processing and Food Engineering.
4. To conduct research in Agricultural Processing and Food Engineering leading to process, control, product and equipment development.

Intake capacity:

Undergraduate : B.Tech (Agricultural Engineering) started in 1964 with intake capacity of 55

Postgraduate programs:

- M Tech (Processing and Food Engineering) started in 1978 with intake capacity of 8
- Ph D (Processing and Food Engineering) started in 2005 with intake capacity of 5

Laboratories and Research Facilities of the Department:

S. No.	Name of the Laboratory	Floor area (sq. m)	Equipments /facilities available
1.	Unit Operation Lab	121.25 sq.m	Indented Cylinder Separator, Sp. Gravity Separator, Cryogenic Grinder, Dryers, Hammer Mill, Burr Mil, Cyclone Separator, Sieve Shaker, Seed Testing Machine, Models of Material Handling Devices
2.	Dairy Engineering Lab	140.5 sq.m	Lab tutor of Refrigeration and Air Conditioning, Plate Heat Exchangers, HTST Pasteurizer, Cream Separator, Surface Cooler, VAT Pasteurizer, Short and Long Tube Evaporator, Falling Film Evaporator, Heat Exchangers
3.	Dehydration Lab	97.5 sq.m	Micro Wave Dryer, Osmotic Dehydrator, Freeze Dryer, Vacuum Oven, Mechanical Tray Dryers, Fluidized bed Dryer, Prototype of Infrared Dryer
4.	Experiential Learning Lab	152.75 sq.m	Blancher, Cutter, Slicer, Chopper, Dehydrator, Deep Freezer and Vacuum Packaging Unit
5.	Post Harvest Engineering Lab	101.45 sq.m	Rice Mill, Pulse Mill, Grinder, Cleaners, Pin Disc Mill, Oil Mill
6.	Food Analysis Lab	24.3 sq.m	Texture Analyzer, Water Activity Meter, Digital Moisture Analyzer, Head Space Analyzer, RVA Starch master, Hunter Lab colour meter, Viscometer, Muffle Furnace, Solvent Extraction unit
7.	Computation Lab	19.17 sq.m	Computing lab with latest computers

Experiential Learning Lab: To promote employment opportunities and entrepreneurship through hands on training, one Experiential Learning Lab equipped with complete process line of dehydration of fruits and

vegetables has been developed in the Department. It has blancher, cutter, slicer, chopper, dehydrator, deep freezer and vacuum packaging unit.

Prototypes and Technologies developed in the Department

Prototypes developed	Technology developed
<ul style="list-style-type: none"> ➤ Microwave Dryer ➤ Osmotic Dehydrator 	<ul style="list-style-type: none"> ➤ Microwave assisted dehydration technology for ginger, garlic, turmeric ➤ Technology for osmotically dehydrated products of sapota, papaya, onion, banana, garlic

Prototypes and Technologies developed by AICRP on Post Harvest Technology (ICAR)

Prototypes developed	Technology developed
<ul style="list-style-type: none"> ➤ Maize dehusker Sheller ➤ Garlic bulb breaker ➤ Garlic clove peeler ➤ Garlic clove flaking machine ➤ Ginger peeler cum polisher ➤ Solar grain treatment machine ➤ Solar Seed treatment machine ➤ Solar dryer ➤ Aloe vera gel extractor ➤ Multi-purpose mill ➤ Storage bins ➤ Stalk wafering machine 	<ul style="list-style-type: none"> ➤ Garlic dehydration technology ➤ Technology for value added product of pearl millet ➤ Technology for ginger and turmeric processing ➤ Technology for processing of arid fruits & vegetables ➤ Technology for henna processing ➤ Technology for quick cooking rab powder ➤ Technology for Mahua flowers ➤ Pectinase fruit juice processing

Library: The Department has library facility for Postgraduate students and faculty members. Presently there are more than 50 books and 15 dissertations available in the library.

Classroom with AV facilities : Apart from conventional classroom teaching, advanced audio-visual aids are used to build innovative outlook and research inclination among the scholars and ease the conceptualization of technological aspects. The advance audio-visual tools comprises classroom studies on LCD projector which not only produces a conducive environment for learning but also aids in

better understanding of the basic concepts of the subject.

Awards and faculty credentials: Department is having highly qualified faculty engaged in teaching of the Agricultural Engineering students. Most of the teaching faculty is having their academic qualification from premier and prestigious institute i.e. Indian Institute of Technology, Kharagpur. Three faculty members are fellow of IE(I) and almost all the faculty members have been felicitated at University or at national level by professional bodies like ISAE, AFST(I) and IE(I) from time to time.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

The Department of Electronics and Communication Engineering, College of Technology and Engineering, Udaipur is one of the high impact technology Centres of the country, committed to impart quality technical exposure to the students. The department offers: B.Tech; M.Tech; & PhD programmes in Electronics & Communication Engineering. The department has signed MOUs with CEERI Pilani, and Texas Instruments, USA in order to promote collaborative research and to ensure industrial exposure to students, besides, extra mural funds through R&D Projects of about Rs 1.65 Crore has been raised from various funding agencies like Deity, AICTE, & DST, with significant research contributions for contemporary technologies. The students of the department have exhibited excellence in academics and co-curricular areas at international and national levels and are serving in leading international and national organizations.

VISION

- ▲ To create leading electronics engineers, researchers, entrepreneurs through a holistic approach adaptive to the industry and society.

MISSION

- ▲ To provide strong theoretical foundation along with extensive practical training.
- ▲ To create an eco-system for research and development to nurture the creativity and innovativeness.
- ▲ To train the students with cutting edge technologies to meet the challenges in the industry and society



LABORATORIES

- | | |
|-------------------------------|--------------------------|
| ▲ Basic Electronics Lab | ▲ Microprocessor Lab |
| ▲ VLSI Lab | ▲ Microwave Lab |
| ▲ Electronic Workshop | ▲ Analog Electronics Lab |
| ▲ Communication Lab | ▲ Radar & TV Lab |
| ▲ Artificial Intelligence Lab | ▲ Research Lab |

INFRASTRUCTURE AND STATE OF ART FACILITIES

The infrastructure of the department includes Smart Class Rooms for UG and PG, air conditioned laboratories, Seminar Hall, Girls common room, Library, and other amenities. The laboratories are well equipped with latest and sophisticated equipment, software tools and other state-of-art facilities to ensure quality exposure to the engineering students. Besides, students are given a good experience in computational techniques and latest software, computer aided design and drafting including EDA tools, MATLAB, CMOS; Optical, RF & Antenna Design tools. The laboratories are configured to impart practical exposure to the students with focus upon following areas: Artificial Intelligence & IOT, VLSI and System Design, ASIC Design & Development, Wireless Broadband System Design,





Analog Electronics & Instrumentation, Sensors and Microcontroller based design.

CMOS Digital IC Design: Concept & Recent Trends

In association with MNIT-Jaipur, under TEQIP-III, five day workshop was organized. Nearly 50 participants from academia got opportunity to interact with eminent speakers.

Project Sponsored under NewGen

S.N.	Project Name	Guide
1.	Electric Vehicle on single wheel	Prof. Sunil Joshi
2.	Energy Efficient Street Lamp Post	Dr. Navneet Agarwal
3.	Blind Stick	Sh. Deep Manwar
4.	MOBET	Ms Purna Dhull
5.	Nitrate Detector	Sh. Himanshu Mohan
6.	Smart Dustbin	Sh. Vishwapriya

Swachhh Bharat Rally: Swachhh Bharat Rally was conducted to create awareness in CTAE

Workshop – Lab-View: The students will get the hands on session on the software simulation tool

LabVIEW. They got the basic knowledge of the technologies required in the industrial world which will help them during their future endeavors.

Smart India Hackathon: The Department of Electronics & Communication Engineering, CTAE, Udaipur is coordinating effective execution of Smart India Hackathon-2017 in Rajasthan state. A national Workshop on Smart India Hackathon-2017 was organized by CTAE, MPUAT, Udaipur, on 29th December 2016.

Electronics/Robotics Club: Electronics/Robotics club is constituted to provide platform to college students for exposure to latest trends in Electronics and Robotics.

Research: The research oriented faculty members of the department have so far published research papers and articles in various international journals, national journals, international & national conferences. Further, department has received grant of Re 1.87 crore from various funding agencies like Deity, AICTE & DST. The research projects are as under:

S. No.	Name of Project	Funding Agency	PI/CO-PI	Amount (Rs. lacs)
1.	Design of 256 channels sample rate converter for accelerated 3T_MRI: Shifting the paradigm in Health sector	DST, Rajasthan	Dr. Navneet Agarwal	06.78
2.	MODROB in Optical Fiber & System Design lab	AICTE, New Delhi	Dr. Navneet Agarwal	14.40
3.	Development of Propagation Models for Milimeter waves	AICTE, New Delhi	Dr. Sunil Joshi	15.00
4.	MODROB in Microwave lab	AICTE, New Delhi	Dr. Sunil Joshi	15.00
5.	Channel/Cluster Optimization for Wireless Broadband Access using MIMO & Multiple Antenna Techniques	DeitY	Dr. Sunil Joshi	49.00
6.	Development of Low Complexity near Optimal Detector and its ASIC Implementation for Wireless MIMO Applications	DeitY	Dr. Sunil Joshi	87.00

DEPARTMENT OF MINING ENGINEERING



The Department of Mining Engineering is a part of College of Technology and Engineering (C.T.A.E.), a constituent college of Maharana Pratap University of Agriculture & Technology, Udaipur for imparting education in Mining Engineering.

The Department of Mining Engineering was established in 1957 in Udaipur – the city of lakes, gardens, fountains and centre of most of the non-coal mining activities of country to impart diploma in mining and mine surveying. In 1996, the department was raised to degree level to cater the demand and need of the mining sector with an annual intake capacity of 20 students. The students with 10+2 as minimum qualification is admitted through JEE-Mains (National level admission test) score/rank. The department has started PG course (M.Tech.) in mine planning in the year 2013 with intake capacity of 08 students and doctoral program 04 students in the year 2014.

Well qualified faculties with international exposure and recipient of international and national awards are actively engaged in teaching and research. The faculty members had kept pace with the technological advancements to pass on the best of their part to the aspiring scholars. Special features in the crown of the department is that we have signed MoU with International Marble Institute, Napoli, Italy; Centre of Development in Stones (CDOS); R.K. Marble Pvt. Ltd. And Hindustan Zinc Limited for research work and academic excellence. A research project sponsored by DST is ongoing. We undertake consultancy research projects as a part of institute-industry activities.

Field oriented student activities are regular features of the department, part of curriculum like mining camp, and survey camp. Students are actively participating in student activities organized in other prestigious institutes of the country time to time. In most of the subjects laboratory manuals has been prepared for

refinement and improving the skill of the students. Passed out students are getting almost 100% placement in IIT, NIT, HZL, DMG, RSMML, cement industries and many more, and with a continuous demand of our students from reputed mining organizations.

Efforts were made to include the dimensional stone technology in the curriculum that resulted in the fact that this is the only degree level college in mining engineering which imparts in dimensional stone technology as thrust area. It is the need of hour since approx 90% of the country's marble mining activities are in its vicinity only. It is needless to say that in conventional mining teaching also we have an edge, due to our locational advantage.

The department has its own new building with all infrastructure facilities and modern well equipped laboratories i.e. Mine computing laboratory, Rock mechanics & Dimensional Stone Laboratory, Mining and Mineral Processing, Environmental & Geology Laboratory etc. and a departmental library having good number of books. Classrooms are well equipped with the modern teaching aids like OHP, LCD and computers, etc. In the college library, about 3500 books related to mining engineering and 250 books in departmental library are available. In addition to this, 13 national and international journals related to mining engineering are subscribed. The department also solves industry problems through research activity and scientific consultancy. Our department is situated in the heart of mining activities, so that students get practical exposures with theory part. We have a unique way of imparting field based knowledge, in which guest faculties from renowned fields like DGMS, DMG, IBM, HZL, RSMML are also invited.



Students visit to Jhamarkotra rock phosphate Mines of RSMML Ltd. (July-2018)

DEPARTMENT OF FARM MACHINERY AND POWER ENGINEERING

Department of Farm Machinery and Power Engineering is one of the oldest department of the College of Technology and Engineering. The Department is engaged in Teaching, Research and Extension activities, offers under graduate, postgraduate and doctoral programmes and equipped with modern computerized laboratories and highly qualified faculty. Department is also actively engaged in research and have a number of sponsored research projects. Furthermore; department has liaison with industries like ASPEE and Mahindra & Mahindra Mumbai, Tractor industries etc. and other organizations M.Tech. and doctoral students are deputed to above industries for Ergonomics for their project work. Department has a completely mechanized farm and students are trained to operate agricultural machinery on the farm under the supervision of the trained staff. Recently department is conducting research on bio-diesel. Under the extension activities of the department field days are organized and demonstrations are conducted on the farmers' field. The department is also engaged in organizing training programmes sponsored by DST on EDP. A novel programme on promoting innovations in Individuals, start ups and MSME (PRISM) of Ministry of Science and Technology, GOI, New Delhi has been working in the department.



Infrastructure

The department is situated at about 100 m distance from the main college building and is having its own building with lush green outfield and soothing ambience. The infrastructure is hospitable and well suited for proficient learning & working. The faculty members and scholars share a healthy relationship enabling efficient and stress-free learning.

Facilities

There is ample opportunity for the scholars to avail the numerous facilities being provided by the department. This includes a computer lab parallel to the college' having all the multimedia and interfacing devices, farm machinery lab, farm power lab, two workshops, a fully computerized bio-diesel lab, traction lab, farms for testing on mechanization, advanced audio-visual teaching aids etc.

Ongoing Projects

S.No.	Title of Research Project	Name of Funding Agency
1.	All India Coordinated Research Project on Farm Implements & Machinery	ICAR, New Delhi
2.	All India Coordinated Research Project on Utilization of Animal Energy with Enhanced System Efficiency	ICAR, New Delhi
3.	All India Coordinated Research Project on Ergonomics and Safety in Agriculture	ICAR, New Delhi
4.	Agricultural Machinery Testing Centre	Ministry of Agriculture and Cooperation, Government of India, New Delhi
5.	Promoting innovations in Individuals, start ups and MSME (PRISM)	Department of Scientific & Industrial Research, Ministry of Science & Technology, GOI, New Delhi

Research & Development

There is infrastructure and financial support for the research & development cell and the scholars are encouraged to undergo intensive advance research work of their choice. Presently, various research projects are underway being sanctioned through ICAR under AICRP, NATP, KVIC, GVT-MPUAT etc. and sanctions of more research projects are awaited, being structured according to the needs and deeds of the scholars.

Machines/Technology developed

- Different matching attachments for multipurpose tool frame such as seeding device, bund former, bed former, MB plough, water tanker and trailer
- Pratap wheel hand hoe
- Paddle operated maize dehusker sheller
- Ergo-friendly fruit harvesting package
- Hydraulic tractor trailer with safety devices
- Mechanisation of sowing and threshing of seed spices crops by development and successful evaluation of planter and thresher.
- Air sleeve boom sprayer.
- Multi crop seed drill cum planter.
- Solar operated maize dehusker cum sheller
- Variable width weeder
- Pneumatic tray seeder

New Technologies Developed under Techno-entrepreneurship Programme

1. Cultivator Suspension System
2. Eco brakes-Energy Efficient braking System
3. Multipoint Illumination White LED Solar Lamp
4. Peeling Device (Machine) for Banana Stem
5. Multi-Crop Portable Circular Oil Expeller
6. Microprocessor Based Lubrication flow and Inductive Sensing & Controlling
7. Indian Sink Utensils Washer
8. Control Release Crop Fertilizer with Additives

9. Micro Mouse
10. Portable Refrigerator:
11. Automatic Cooler Regulator
12. Quick (1hr) Treatment of dyeing industries effluent & recycling of treated waste water for dye house again.
13. An Improved Oropharyngeal Airway
14. Bullock Driven Improved Multi Crop Seed cum Fertilizer Drill
15. Traffic Jam Detection & Control Using PLC and SCADA
16. Root crops washer (specially designed for Carrots and Reddish)
17. Development of Suspension type Extendable width Cultivator

Projects under TREMAP for Commercialization

1. Peeling device (machine) for Banana Stem
2. Mini Concrete Mixing Machine
3. Biomass Cook stove Using Natural Draft
4. A device for driving four wheeler mechanism through Hand for physically challenged person
5. Plasma Expressor (Manually) Top & Bottom

Teaching Aids

Apart from conventional classroom teaching, advanced audio-visual aids are used to build innovative outlook and research inclination among the scholars and ease the conceptualization of technological aspects. The advance audio-visual tools comprises classroom studies on LCD projector and through internet which not only produces a conducive environment for learning but also aids in better understanding of the basic concepts of the subject.

Laboratories

- Farm Power Lab • Farm Machinery Lab • Plant Protection Lab • CAD and Data Processing Lab • Bio-diesel Lab • Ergonomics Lab • Traction Lab • Experiential Learning Workshop • Prototype Manufacturing Workshop



Ergonomics Laboratory



Metal Cutting Band Saw



Power Transmission System

DEPARTMENT OF SOIL & WATER ENGINEERING

Department of Soil and Water Engineering are presently engaged in Teaching, Research and Extension activities in the field of soil and water conservation engineering and Irrigation water management. The department offers related courses to Under Graduate degree programme of BE (Ag) & B.Sc. (Ag.).

The post graduate programs in Soil and Water Conservation Engineering started in 1978 whereas Irrigation Water Management Engineering in 1986, leading to degree of ME (Ag). The Ph. D. programs in Soil and Water Conservation Engineering and Irrigation Water Management Engineering were started in 1996. The department has so far produced 191 ME/ Ph.D. Students. Besides, teaching the department is having research projects funded by national and International organizations and actively engaged for imparting training programs to field functionaries and progressive farmers in the field of soil and water engineering.

MISSION

To create a centre of excellence, foster high standards and orient teaching, research and extension program of soil and water engineering towards future needs and opportunities through involvement of various stake holders.

INTAKE CAPACITY

Undergraduate : B.Tech (Agricultural Engineering) started in 1964 with intake capacity of 55

Postgraduate programs:

- M Tech (Soil and Water Conservation Engineering) with intake capacity of 8
- M Tech (Irrigation Water Management Engineering) with intake capacity of 8
- Ph D (Soil and Water Conservation Engineering) with intake capacity of 6
- Ph D (Irrigation Water Management Engineering) with intake capacity of 6

Research Projects

The department is having All India Coordinated Research Project funded by ICAR, New Delhi, International collaborative project from ACIAR, Australia. The research project presently running in the department is as under.

Soil and Water Conservation Research & Demonstration Farm

The Soil Conservation Training Centre is having Soil & Water Conservation Research and Demonstration farm in the form of model watershed of 173 ha. in the premises of the University. In this watershed all the technologies of the soil and water conservation has been demonstrated. This is used for the students of the college as well as providing practical training to the farmers and field functionaries. Every year the farmers of entire Rajasthan visit this modal watershed to see the various technologies of soil and water conservation under exposure trip sponsored by Govt. of Rajasthan and NGOs. The Officers and farmers of various states like M.P., Gujrat, and Himachal Pradesh also visit this model watershed.

S.No.	Title of Research Project	Year of	Name of Funding Agency
1.	All India Coordinated Project on Irrigation Water Management	2004	ICAR, New Delhi
2.	All India Coordinated Project on Plasticulture Engineering Technology	2009	ICAR, New Delhi
3.	International collaborative project Managed Aquifer Recharge through Village Level Interventions	2010	Australian Commission for International Agricultural Research and University of Western Sydney

Plasticulture farm

The department has developed plasticulture farm having total area of 14 ha in the campus. In this farm plastic green house, shed net house and plastic lined farmed pond having storage capacity of 1000 m³ has been constructed as a demonstration unit for the students, farmers and field functionaries. The total area of green house and shed net house is about 1 ha, mother orchard of horticultural plant in 2 ha and remaining area has been treated under *insitu* conservation measures. This farm is also being utilized for conducting research for the students under micro irrigation as well as protected cultivation.

Agro Meteorological Observatory

The department is having a well equipped agro meteorological observatory for monitoring the meteorological data since 1975, which is used by research workers working an area of soil and water conservation, climate change and water management. The observatory is approved by IMD, Pune and the daily recorded data is being provided to IMD, Pune and DST, New Delhi for daily forecasting. The recorded data is also being used for PG and Ph.D research for the students of MPUAT and other Universities.



Laboratory associated with the Department

- Soil and Water Conservation Engineering Laboratory
- Agro Meteorological Observatory
- Irrigation and Water Management Demonstration Laboratory
- Drainage Laboratory
- Ground Water Pumping Laboratory
- Soil Conservation Demonstration Farm
- Remote Sensing & GIS Laboratory



Low Cost Dry Stone Masonry Pond

Remote Sensing & GIS Lab

A state of art GIS lab facility is developed to impart training in the field of GIS mapping and Geo Spatial data base creation.

The Sub meter accuracy global positing system (GPS) and optical scanner are a of the Installation

MoUs and collaboration for Research and extension

1. University of Western Sydney, Australia.
2. Indian Institute of Remote Sensing, Dehradun.
3. Regional Remote Sensing Centre, Jodhpur
4. Central Arid Zone Research Institute, Jodhpur
5. State agricultural Universities viz. MPKV, Rahuri, Dr. BSKKV, Dapoli & DR. PDKV, Akola.
6. Directorate of Watershed Development and Soil Conservation, Government of Rajasthan.

Publication of the Department

S. N.	Particulars	Numbers
1	Books	32
2	Book Chapter	23
3	Research Papers in International journals	62
4	Research Papers in National journals and proceedings	538
5	Technical bulletins	14
6	Technical manuals	8

7. National Bank for Agriculture & Rural Development, Jaipur.
8. National Bureau of Soil Survey & Land Use Planning, Udaipur
9. Ambuja Cement Foundation
10. Jain Irrigation system Limited, Jalgaon.

Awards and faculty credentials: Department is having highly qualified faculty engaged in teaching of the Agricultural Engineering students. Most of the teaching faculty is having their academic qualification from premier and prestigious institute. Dr. P. K. Singh received **Best Teacher Award and Appreciation Award** for the year 2004 and 2017 by MPUAT, Udaipur. Er. Manjeet Singh received **Appreciation Award** for the year 2016 and 2017 by MPUAT, Udaipur and **Excellence in Teaching Award** for year 2015 by Astha

Foundation and Young Professional Engineer Award for year 2017 by Alumni Society, CTAE, MPUAT, Udaipur. Dr. S.R. Bhakar and Dr. B. R. Chhipa received **Appreciation Award** for the year 2018 by MPUAT, Udaipur. Dr. K.K. Yadav received **Appreciation Award** for the year 2018 by District Collector, Udaipur. Dr. S.R. Bhakar received **International Award for Agriculture based Book Writing** in the year 2011 and **Outstanding Book Award** for the year 2006-07 and 2008-09 by Indian Society of Agricultural Engineers, New Delhi. The faculty members of the department also received ISAE awards in the various discipline in the field of soil and water engineering. Most of the faculty members have been felicitated at University or at national level by professional bodies like ISAE and IE(I) from time to time.

RESOURCES WITHIN THE PREMISES, WITHIN REACH

College Workshop

The college workshop situated in the Department of Mechanical Engineering is well equipped with modern machines, tools and other facilities to impart practical training to the students. Students are required to wear workshop uniform. The workshop also provides service to various departments of the college for fabrication of gadgets, machines of specific requirement, undertake repairs and manufacture of furniture it provides facilities to the students in project job. Other Departments such as Farm Machinery & Power Engineering, Renewable Energy Sources and Post Harvest Technology Scheme also have separate workshop to handle R&D projects.

Instructional Farm

The college has an Instructional Farm extending over 14 hectare area for imparting practical training to the students regarding operation of farm machines and

equipment, for designing modern irrigation and drainage systems, processing operations etc. Its farmstead includes demonstration and training structure for storage of crops, processing, irrigation etc. A farm pond of 0.75-hectare submergence area is used for water harvesting and irrigation. A well developed agro-meteorological observatory is located on the instructional farm. It serves as teaching aid and the observations are tool for research work.

Personality Development and English Language Lab

It helps students in improving their verbal expression and communication skills for achieving better professional requirements.

Hostels

Residential facilities are available for 800 students in eight hostels viz., A.N. Khosla, M.V. Hostel; P.G. Hostel;





G.S. Mahajani Hostel, Subhash Chandra Bose Hostel, Ganga Hostel, Ph.D. Hostel and Girls hostel. The girls hostel facilities are shared with College of Home Science, Udaipur. These eight hostels and one scientist hostel provides homely atmosphere and appropriate environment for studies and aesthetic living.

Name of the Hostel	Capacity
G. S. M. Hostel	57
M. V. Hostel	150
A. N. Khosla Hostel	150
P. G. Hostel	72
Ganga Hostel	55
CTAE Girls Hostel	140
Ph.D. Hostel	36
Subhas Chandra Bose Hostel	150

Other Activities

Student Welfare: The university offers the services of the Student Welfare Office (SWO) to mitigate the difficulties of the student community solve their problems and grievances. It is assisted by the Assistant Dean Students Welfare (ADSW), stationed at every institute of the University. ADSW is overall in-charge of students in matter of discipline, co-curricular activities and general behaviour. He is a friend, philosopher and guide for the students. The college students in consultation with ADSW can organize sports, cultural and academic events.

Participation in NCC / NSS/ NSO: During first two yeras of under graduate every student of the college has to join one activity out of NSO, NSS & NCC. Its marks are counted in degree. Students joining college by migration from other universities or college where they had completed any activity are exempted but they have to fulfill the prescribed requirement for the satisfaction of the officer in-charge.

National Sports Organisation (NSO): To provide adequate practice, effective coaching and inculcate the



sportsman-spirit among the players, the college has NSO unit under the guidance of Superintendent of Physical Education. Students enrolled under this scheme require 65 per cent attendance and qualify a practical test in the participated activity.

National Cadet Corps (NCC): NCC fortifies character, command and discipline among the students. It provides base for a career in the defence services. The college has 10 Raj. BN., Senior Division Army Wing NCC Unit of 66 cadets. After two years training candidate is eligible for 'B' certificate examination provided he has atleast 75 percent attendance and has attended at least one NCC camp. For 'C' certificate examination the cadet must have (i) passed 'B' certificate (ii) under goes practical training of three years with a minimum 75 per cent attendance and (iii) must have attended two NCC camps. Graduates with 'C' certificate are eligible for direct selection in courses at Indian Military Academy, Dehradun.

National Service Scheme (NSS): The NSS aims in developing the inner potentialities and transforming the students mentally to fit into the society to which he/she belongs. With the objectives of NSS, it is there to develop multidisciplinary personality of the student youth so as to gain skills in mobilising community participation, acquire leadership qualities and democratic attitudes, develop capacity to meet emergencies and natural disasters, etc. along with their academics. The NSS Units of CTAE has been fulfilling the objectives of NSS by encouraging and supporting active participation of youth in the process of socially valuable and nation building activities and has also been important in development of personality of the youth.

Educational Tours: The educational tours expose the students to the real scenario of engineering techniques in the field. These assessed tours are part of the course curriculum. The university providing sleeper class

concessional railway fare for the tour subjected to maximum limit of Rs. 800.00. For other approved tours, the university issues only journey concession order. If a student misses the tour on reasonable ground he has to undergo 15 days additional training.

Utilities: The college campus has a co-operative store, a bank and a post office. Canteen services are also available during office hours. A gymnasium also available where 10-12 students can do different muscular exercises.

CTAE Alumni Society

CTAE Alumni Society came into existence in July 1999. The present membership strength of the Society has now reached about 2100. Alumni Meet and Felicitation Programme is held every year in the month of October and is the major activity held under the banner of this society. The students who have completed 25 years of graduation are felicitated on this day. Alumni from 1969 to 1992 batches have been felicitated during meeting held from 2003 to 2017.



College Magazine, News Letters and Wall Papers

The college publishes annual college magazine "TECHVIEW" in which students and staff members contribute articles. The college magazine comprises highlights of various events organized in previous year including, sports, cultural and academic activities etc. Regularly newsletter printed or cyclostyled are also published. Students are also invited to prepare wall-charts and wall-news for display on the notice boards of the institutions. These are basically the student's activities wherein they are asked to play a greater role.

The work of publications of college magazine, newsletter and wall papers is being supervised through a team of college staff and few student members constituted by the Dean of the college. Executive Committee of Engineering Students Association or Dean nominates the student members. The college magazine is published in both the languages *i.e.* Hindi and English. CTAE TIMES, a monthly college magazine by students, is also being brought out on regular basis highlighting the activities of the students and faculty.

Games and Sports

The college has facilities for various games and sports activities. The college has its own play grounds for Cricket, Football, Volleyball, Basketball, Tennis, Hockey, Table Tennis, Badminton, Kabaddi and other items. The college also has a gymnasium. The University Sports Board coordinates the activities of the various colleges including inter collegiate tournaments. The college organises state level Kiran Kamble Basket Ball Tournament and Aurn Ojha Memorial Table Tennis Tournament. The students interested in games and sports are required to contact Assistant Director, Physical Education.

Library

The library occupies a big hall measuring about 1000 sq. metre and has about 150 seats for its readers. It has about 50,000 books, bound journals, standards and technical reports on various subjects of science and technology. It is equipped with the modern equipment like computer, photocopier, microfilm reader, colour TV, DVD Recorder etc. It also has Internet facility for M.E.



and Ph. D. Students. Besides the college library, the students of this college are also eligible to avail the facilities of the University Central Library in the premises of the Rajasthan College of Agriculture, Udaipur. Book bank facility with about 30,000 books is also available to the students. The books are made available to the students on rental basis.

Information and Placement Bureau

The College has an Information and Placement Bureau (IPB), functioning since 2001. The IPB caters to the needs of students in respect of their placement by inviting companies, MNCs/Corporate and arranging on-campus recruitments for them; and also acquainting them about the emerging job trends globally. The bureau provides all technical facilities for presentations, written test, online test, group discussion and interviews to the recruiters. This Bureau is in close coordination with Communication Skill and Personality Development Cell. It also organizes various other activities related to personality development aspects like arranging technical talk of eminent managers from corporate and eminent professors from reputed institutes, arranging student-debates on current issues, presentations by students themselves on the subject of their interest. The bureau also invites, from time to time, professionals to the institute to deliberate as to how to prepare for the various competitive examinations like MBA, GATE, RAS, IAS etc. and helps students in selecting a good institute for further studies for a good career.

Management

The Information and Placement Bureau consists of a chairman and Six senior faculty members from different departments:

Chairman

Dr. Vinod Yadav

Members

- Er. Manjeet Singh for Agriculture Engineering
- Dr. M. S. Khidiya for Mechanical Engineering
- Dr. R. P. Arora for Civil Engineering
- Dr. Naveen Jain Electrical Engineering
- Er. Kalpana Jain for Computer Science & Engg. and Information Technology
- Dr. Navneet Agrawal for Electronics & Communication Engineering

Impact

The establishment of the bureau has contributed immensely in the significant rise in inviting the reputed companies, holding interviews and overall placements of the students. This is significant in last three years shown below:

Various organizations which have visited us and recruited our students in recent past are:

Secure Meters, Vedanta HZL, Indian Army, TCS, Honda Siel, TAFE, Syntel Ltd., AppPerfect, Wipro BPO Technology Div, Mahindra & Mahindra, Saidoo IT pvt. Ltd., Ambuja Cement, Kothari Infotech, Sanmar Group,

Year	Discipline	Total No. of Students	Total No. of Students Placed
2008-09	Ag, Mech, Elect, Mining, CSE	210	149
2009-10	Ag, Mech, Elect, ECE, Mining, CSE	228	182
2010-11	Ag, Mech, Elect, ECE, Mining, CSE, IT, Civil	334	221
2011-12	Ag, Mech, Elect, ECE, Mining, CSE, IT, Civil	330	315
2012-13	Ag, Mech, Elect, ECE, Mining, CSE, IT, Civil	382	240
2013-14	Ag, Mech, Elect, ECE, Mining, CSE, IT, Civil	334	225
2014-15	Ag, Mech, Elect, ECE, Mining, CSE, IT, Civil	343	228
2015-16	Ag, Mech, Elect, ECE, Mining, CSE, IT, Civil	332	180
2016-17	Ag, Mech, Elect, ECE, Mining, CSE, IT, Civil	330	212
2017-18	Ag, Mech, Elect, ECE, Mining, CSE, IT, Civil	330	200



CASE New Holland, Ultra Tech Cement, VIKRAM, ERA Group, Adani Mining, Forum of Financial Initiative, ICICI Bank, Phoenix Maritime, Telcon Takshak, ReadyByte, Jain Irrigation, BSES Yamuna Power, International Tractors- SONALIKA, Wolkem India, Birla Cement Works, URC

Construction Erode TN, Shashwat Green, R K. Marble, Sai Ideal Software, M&M Swaraj, Deepak Foundation, Strata Geo System, Birla Cement Works, GR Infra Projects, IBM at Singhanian, BOSCH by Cocube at Greater NOIDA, J. K. Nibmbbhera, AMDOCS at Jaipur, Aditya (UltraTech) Cement

Communication Skill and Personality Development

In addition to that, the Bureau is in close coordination with communication skill and personality development cell organizes various activities as trainings, lectures, language labs etc.

LIST OF AWARDEES 2018

Congratulations to the Alumines for the following Awards

S.No.	Name of Award/Category	Recipients	Batch
1.	Meritorious Service (Academic)	Dr. A. K. Mehta	1977-1982
2.	Meritorious Service (Academic)	Dr. Deepak Sharma	1977-1982
3.	Meritorious Service (Professional)	Er. Harish Mehta	1967-1972
4.	Distinguished Alumni (Academic)	Dr. R. C. Verma	1977-1982
5.	Senior Professional Engineer (Professional)	Er. Sunil Jain	1987-1992

Office Bearers of CTAE Alumni Society

Patron-in-Chief : Dr. K. N. Nag, Ex-Vice Chancellor

Year	Patron	President	Hony. Secretary
1999-2003	Dr. A. N. Mathur	Prof. R. K. Aeron	Dr. Deepak Sharma
2003-2006	Dr. A. N. Mathur Dr. Virendra Kumar	Er. S. C. Sukhlecha	Dr. Deepak Sharma
2006-2009 2009-2012	Dr. Virendra Kumar Dr. Virendra Kumar Dr. R. C. Purohit Dr. Narendra S. Rothore	Er. J. K. Gupta Er. Madan Chhajed	Dr. Hemant K. Mittal Dr. N. K. Jain
2012-2015	Dr. B.P. Nandwana	Dr. C.M. Tajawat	Dr. N.K. Jain
2015-2018	Dr. B. P. Nandwana Dr. S.S. Rathore Dr. Ajay Kumar Sharma	Dr. Arun Surana	Dr. R.C. Verma

Technical Education Quality Improvement Programme Phase-III



Dr. Mahesh Kothari
Professor and
TEQIP Coordinator

The TEQIP-II (Technical Education Quality Improvement Programme Phase-II) was successfully completed by College in March, 2017. The TEQIP-III (Technical Education Quality Improvement Programme Phase-III) of MHRD, GOI, and Component 1.1 with outlay of Rs. 10 Crore is functional in the college from 1 April, 2018. The Category wise fund allocation is Rs. 6 Crore for procurement of goods and services, Rs. 3 Crore for academic activities and Rs. 1 Crore as project operating costs. The key activities of procurement includes purchase of lab equipment's, Classroom & Lab furniture, Smart Class rooms, Books including eBooks & eJournals, learning resources, academic software etc. The procurement also includes minor Civil Works of repair of academic buildings such as labs & class rooms.

The academic activities of TEQIP III covers following broad activities:

Improve student learning:

- ▲ Induction Programme for 1st Year Students
- ▲ Short Term Trainings by IITs/NITs etc.
- ▲ GATE Coaching and Registration
- ▲ Expert Lectures, Remedial Classes and Bridge Classes
- ▲ Participating in Academic Fest, Tech Fest at IITs/NITs etc.
- ▲ Carrier Counselling and Personality development programmes for the students

Research Assistantship:

- ▲ Research assistantship to PhD students admitted as per AICTE/UGC norms

Graduate Employability:

- ▲ Finishing Schools, Soft skill trainings

- ▲ Pre Placement and entrepreneurship development programme

- ▲ Start Up activities

Reforms and Governance

- ▲ NBA Accreditation

- ▲ UGC Autonomy

Faculty & Staff Development and Motivation

- ▲ Fee for qualification up-gradation

- ▲ Attending Seminar, Workshop, Conference etc.

- ▲ Staff Trainings at IITs/NITs, Industry and other Institute etc.

- ▲ Faculty Trainings at IITs/NITs, National Labs, other Premier Government/ Non-Government organization

- ▲ Organizing Trainings, Seminar, Workshop by faculty

Research and Development

- ▲ Seed money for Innovative research

- ▲ Attending Seminar, Workshop, Conference by students

- ▲ **Publication** in peer reviewed Journals, **Patents** by faculty and students

- ▲ Securing R&D, Consultancy Projects

MOOC's and Digital Learning

- ▲ Registration of faculty on SWAYAM (Study Webs of Active-Learning for Young Aspiring Minds)

- ▲ Development of MOOC's (Massive Open Online Courses) and digital resources

Management Capacity Development

- ▲ Professional Development Training for Management and Faculty at IIM's

Mentoring/ Twinning System

- ▲ MOU signed with MNIT, Jaipur for joint supervision of M.Tech and PhD students and collaborative academic and R&D activities and two way students, staff & faculty exchange.
- ▲ Two way faculty, staff and student exchange programs for training and academic and R & D activities
- ▲ Joint Seminars, academic meetings and conferences for students and faculty
- ▲ Organising Industry partnership for joint R&D, internship and placement activities
- ▲ Joint Advisory for M.Tech/ PhD and consultancy services

Institute Industry Interaction

- ▲ Internship, Industrial visit and industry experts lecture
- ▲ Placement activities

Under TEQIP-III, 8 faculty members have attended Professional Development Trainings (PDTs) at IIMs and 31 faculty members attended one week training on Active Learning at IIT, Bombay. Also, faculty members of college are deputed to attend more than 70 Trainings & Workshop at different NITs, IITs and other premier institutes of country. The 18 faculty members of college are provided DTH connection to view Swayamprabha Channel and participate in online courses of Swayam Portal of MHRD, GOI. The two workshop was organized for faculty and staff at CTAE, UDAIPUR on GST rules and Procedures and on Outcome based education.

The Institute conducted 3 weeks Induction programme (for newly admitted 1st year students). About 56 students are deputed for internships at IITs, MNIT, Jaipur

and other institute of excellence. More than 50 PG and PhD students are deputed for paper presentation in various seminars and conferences. 192 students are deputed for academic fest, and workshops in their subject areas. 15 research scholars are provided assistantship in 2017-18. The students are also taken to ISRO, Ahmedabad under Industrial visit.

The institute has also participated in global student Learning assessment (SLA) conducted by Stanford university, USA for 1st and 3rd year students and faculty taught them in department of Electronics and Communication Engineering and Computer Science and Engineering.

The project is supporting final year students by providing 200 hrs of specialized coaching by TIME Secandrabad for employability skills upgradation. The project is also conducting exclusive GATE training classes from expert mentors for all branches. The number of domain specific workshops and personality development programs are continuously supported for students of all branches.

Under this program MOU is signed with MNIT, Jaipur to conduct exchange program for students and faculty of CTAE and vice versa. MNIT will provide access to all academic facility to students and faculty of CTAE. We are in process of making arrangement with various IITs and NITs for exposure visits and working in their labs.

The TEQIP has provided 20 Assistant Professor (contract) in various engineering departments to fulfil faculty shortage during project tenure and another 15 more Assistant Professor (contract) are likely to be provided by NPIU shortly. The college got its 5 UG and 5 PG programmes accredited by NBA in 2016 and 2017 respectively for 3 years. At present, expenditure of about 4.5 crore was made in procurement of goods and services and academic activities under project.

NEW PROGRAMMES AT CTAE UDAIPUR

MAJOR NOTEWORTHY EFFORTS TO PROMOTE INNOVATION AND STUDENT STARTUPS

Promoting Innovations in Individuals, Start-ups and MSMEs (PRISM)

College of Technology and Engineering (CTAE) is running a programme Promoting Innovations in Individuals, Start-ups and MSMEs (PRISM) with aims to support individual innovators which will enable to achieve the agenda of inclusive development - one of the thrust areas of XIIth five year plan (2012-2017). CTAE is one of centre of PRISM named as TePP Outreach cum Cluster innovation Center (TOCIC), Udaipur. This is the only centre covering Rajasthan, Maharashtra, Gujarat, M P, Panji, central part of India and Many more. So far TOCIC Udaipur have supported about 25 projects in this programme. This centre was judged the excellent centre among all over India.

Technology Business Incubation Centre & Accelerator Programme

This is a programme supported by Government of Rajasthan. CTAE, Udaipur is a leading institution for imparting Technical Education through structured courses / workshops and set-up a Technology Business Incubation Centre ("TBIC") within its campus premises to support and promote entrepreneurship among its students and to act as like a start-up platform for the youth and aspiring entrepreneurs of Udaipur Division of Rajasthan. The Centre is branded as "TBIC, CTAE Powered by Start-up Oasis". The main objective is to inculcate entrepreneurship and creation of enterprises on knowledge based innovation specially focused to Farm mechanisation, Post Harvest Technologies, Food processing, Renewable Energy, Energy efficiency, Mining and mineral processing and Information & Communication technology.

New Generation Innovation and Entrepreneurship Development Centre (NewGen IEDC)

CTAE has been awarded a novel programme of New Generation Innovation and Entrepreneurship Development Centre (NewGen IEDC) launched by National Science and Technology Entrepreneurship Development Board (NSTEDB), Department of Science & Technology (DST), Government of India. NewGen IEDC aims to inculcate the spirit of innovation and entrepreneurship amongst the young S&T students, encourage and support start-up creation through guidance, mentorship and support. Students are encouraged to take up innovative projects with possibility of commercialization. NewGen IEDCs spreads the message of entrepreneurship and creates a culture of entrepreneurship in the Host Institution (HI). Few amongst the "Job-Seekers" would be converted to "Job-Generators" through the entrepreneurial route. Objectives of NewGen IEDC is to channelize the knowledge and the energy of youth towards becoming active partners in the economic development process; to catalyze and promote development of knowledge-based and innovation driven enterprises and promote employment opportunities amongst youth specially students; to inculcate a culture of innovation driven entrepreneurship and to act as an institutional mechanism for providing various services including information on all aspects of enterprise building to budding S&T entrepreneurs.

MARVI : Managing Groundwater Use and Sustaining Aquifer Recharge through Village-level Interventions



Basant Maheshwari
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Science & Health
Western Sydney University*



Madam Chhajer
*Retired S.E.
Watershed &
Soil Conservations, Udaipur*

Introduction

About 60% of irrigation water for crop production and 80% of drinking water in India is sourced from groundwater supplies. Groundwater is a hidden, common pool resource and practices to promote collective action to ensure sustainable management are poorly understood. For this reason, State efforts to regulate groundwater use by individual well owners to date have achieved little success. This, along with easy availability of submersible pumps and subsidised electricity has led to groundwater use far in excess of the average annual monsoon recharge. As a result, the average depth to watertable in many parts of India has dropped from 5 -15 m during 1960s to 25 – 60 m now. Farmers continue to drill tubewells to 100 m depth or more in search of water.

The future of viable agriculture and food security in India is closely linked to groundwater sustainability. The challenges here are not only technical but they have important social, economic, institutional and policy dimensions. The critical question we now have to ask is “how do we bring together cross disciplinary aspects to achieve sustainable groundwater use while realising improved livelihood outcomes for village communities?”

What is MARVI about?

The MARVI project is focused on developing a village level participatory approach, models and tools to assist in improving groundwater supplies and reducing its demand through the direct involvement of farmers and other affected stakeholders.

A unique feature of MARVI is the use of scientific measurements by citizens through the engagement of BhujalJankaars (BJs), a Hindi word meaning 'groundwater informed' volunteers. With appropriate training and capacity building, BJs monitor groundwater levels and quality, making sense from a village perspective of what is happening to village groundwater availability. BJs convey this information to farmers and others in their own language.

Groundwater level represents the integration of recharge, pumping and flow processes and is a direct measure of groundwater availability and the success of any collective management practices. BJs are an effective, trusted and valuable interface between village communities and government agencies, NGOs and researchers.

The MARVI Approach

- # Engage farmers, local communities, government agencies and policy makers;
- # Understand hydrologic, social, economic, governance and livelihood aspects that connect with groundwater management, including recharge enhancement and water use restraints; and
- # Empower farmers to self-manage groundwater sustainably at the village and Gram Panchayat levels.

What did we do in the MARVI project?

The research in MARVI project focused on two multi-village watersheds, the Dharta watershed in Rajasthan and the Meghraj watershed in Gujarat. Both watersheds have hardrock aquifers (Figure 1). The main aims were:



Figure 1. Location of the study watersheds

(i) enable local villagers to monitor groundwater (ii) design participatory processes to assist village level discovery and implementation of solutions for sustaining groundwater use and improved livelihoods; (iii) establish a comprehensive database about groundwater level fluctuations, availability and river bed structures to augment recharge (iv) advance groundwater knowledge and understanding of farmers, local communities (including schools) and decision makers; and (v) provide tools for estimating annual groundwater recharge, water availability and crop demand. Overall, the focus is to improve cooperative decision making for sustainable groundwater use.

Watertable fluctuations in 250 dug wells in the Dharta watershed and 110 wells in the Meghraj watershed were monitored by BJs and groundwater sensors over four years (Figure 2). A number of checkdams were monitored to understand their recharge performance and effects on groundwater availability on nearby wells.

An SMS based data collection system and a smart phone app called MyWell, for both Android and iOS platforms,



Figure 2. Groundwater level measurement at one the field sites

was developed to assist in the easy collection of watertable depth and rainfall data and to visualise data and make them available on the web. A detailed socio-economic study, alongwith crop demonstrations, engagement through PhotoVoice and community forums, was conducted to understand farmers' needs and capacities and explore what changes will work for future groundwater management strategies.

Key Achievements

An approach for community based, participatory groundwater monitoring and management has been developed through a close collaboration with research and development agencies and village communities.

Watertable data monitored by both BJs and sensors have enabled the estimation of local hydro-geologic parameters and the development of a simple groundwater balance. The monitoring of rainfall and water levels in checkdams has led to partition of aquifer recharge due to checkdams and natural recharge in relation to subsequent groundwater use.

The SMS system and MyWell App developed will help in easy collection of watertable, rainfall and checkdam

water level data from any location in India and making those data available on the web.

BJs are proving to be significant change agents and through their scientific measurement, understanding and communication in the two watersheds. They are also an important interface between researchers and village communities.

As result of the effective engagement of village communities and evidence shown through local data collected over the last four years, there is an indication that farmers now have started to understand their local groundwater system, accept that groundwater is limited and that the falling watertable is a village level issue and it needs to be tackled at the village level.

The work through MARVI has strengthened the farmers' view that individual effort alone will not work to solve their groundwater problem. The groundwater level data reveals that deepening wells or installing deeper tubewells is like snatching each-others' groundwater, and overall no extra water is to be gained by drilling deeper. They have already taken measures to stop deeper drilling, to remove sediment from recharge structures, to determine rabi crop areas from post-monsoon groundwater levels and to improve mulching and water use efficiency, and diversify crop types.

The farming community in the two watersheds is now debating the concept of sharing groundwater through 'village groundwater cooperatives' (VGC). The concept of water productivity, rather than crop productivity, is gaining momentum among the farmers. These are important outcomes from MARVI.

The Future

The experience from the MARVI project indicates that a transdisciplinary approach is likely to be more effective in enabling farmers, other village community members and NGOs to work together with researchers and government agencies to understand the groundwater situation and design interventions that are holistic and have wider ownership at the village and Gram Panchayat levels. Also, such an approach is expected to deliver longer-term sustainability of groundwater at a regional or basin scale, when all villages in a basin are supported and networked.

Acknowledgements

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Life-Pre, During and Post CTAE

Pranay Dandia

As we get ready for our silver jubilee celebrations, I can't help but recall those wonderful college experiences which have shaped me and my batch-mates over the years. Life was the same roller coaster ride then as it is now with all its ups and down – and this brings me to the first positive experiential learning out of the three at CTAE and during 1989-94.

Be Adventurous: A lot of my batch mates would relate to this, whether it was the spontaneous trip to Ranakpur, venturing into distant college buildings through fields at pitch dark nights, getting on the stage for the first time to approaching Home Science girls for a romantic rendezvous. It was the flow of adrenalin from the challenges which rewarded us with deep learnings or amazing feelings or simply the new-new thing. This quest for adrenaline continued in my life after campus where I got enthused by new job assignments, venturing into unknown area or travelling to unknown places. I knew that venturing into uncharted territories always held a fulsome reward.

Think Collaborative: While I was preparing for PET(Pre-Engineering Test) one day I got very demotivated thinking about the competition -only 800 to be chosen from over 100,000+ who wrote the exam. My sister spoke to me and I quote her words which changed me "you need only 1 seat out of the 800". This changed the way I looked at competition and led me to collaborate with my friends in group studies, encouraging each other etc. This helped a lot and me and my friends fared much better than what we individually may have accomplished. On campus as well, we managed a lot with this collaborate approach - whether it was getting into team sports, organizing a student memorial Quiz contest or preparing for competitive exams like CAT, GATE, Job etc. Out batch is a testimony of this collaborative approach where we accomplished more in

winning over opposite gender, competitive exams or jobs than what we would have accomplished with our individual efforts.

This collaborative approach served me a lot during working life where I with my team achieved several number ones in the industry whether it be first paperless credit card process, fastest scale-up of business, building a model from scratch, several co-brand cards and many others.

Think Positive: The genesis of this thinking in me is non-intuitive. Let me relate. I was ranked in the last percentile of people who had cleared the PET exam. It was a relief when I was called for the Agricultural engineering branch; however, I was not certain about the future job prospects that it held. What I was certain about was that I didn't want to give another year laboring on the same competitive exam. This made me search for positives in agricultural engineering field. It was somewhat wishful thinking of getting into IIMA, greater demand for less number of engineers in the large agriculture field. This thinking remained with me and gradually the forces started pushing me in that direction – I participated actively in sports, extra-curricular activities like debates, organizing cultural shows. These positive and multi-dimensional experiences coupled with dollops of good luck, I was able to get thru a few coveted management institutes. This would have been impossible if those positive forces were not driving me sub-consciously.

This habit of thinking positive in every situation that life has thrown at me has served me good in my working and personal life. It provided me with a straw of hope in hopeless situations.

Now for the Negatives:

Wish I had failed in some examinations I was on CTAE campus one among the unlucky ones not to have failed

in one single examination. This might come as a surprise to you that why I am calling myself unlucky. The answer is had I failed in campus, I would have known how to deal with failures. Later in my life after campus when I failed at my marriage, job – I didn't know how to deal with it. My inability to cope up with failure broke me down both physically and mentally. It's only when and overelaborate stretches of time that I have been able to come with terms with my failures. My recovery time would have been much shorter and smoother had I failed earlier and I would also have learnt how to move on unhurt and much wiser for the experience.

Wish I had listened more: As with all teenagers, I had a rebellious attitude. I was the one who would rebel against any authority. It manifested in an attitude of not attending classes, not listening to experiences of professors and seniors and generally shutting them from influencing me. This didn't serve me well in my life after

campus – I would commit the same mistake which experienced people would have warned me against. It hasn't still sunk in fully that I have to listen and gain from other experiences.

Wish I had touched more on spiritual side: So obsessed were we with the material and job world, that our dalliance with our spiritual side happened only during difficult times. Later only I realized that this is such an important part of our daily lives. It keeps us rooted and happy in all our ups and downs of our lives. Wish we had done more on this during our college days.

I think all of us would agree that years spent at CTAE were one of the most formative years of our lives which left an indelible mark on the way we have spent our time after campus. As we prepare ourselves for the golden jubilee and traverse the next 25 years am sure that our learnings and un-learnings at CTAE would continue to hold us good.

Those were the Days.....

Hemendra Mathur

As we start preparing for our Silver Jubilee, the memories of time spent in CTAE from 1989 to 1994 came alive. After clearing PET (Pre-Engineering Test), I took admission in CTAE in July'1989. I could barely make it to CTAE (being ranked 646 out of 650 students who cleared PET in that year). To my knowledge, most of us who took admission in CTAE were left with only one choice and that was Agricultural Engineering at CTAE. I almost refused to take admission in CTAE after listening to some of the seniors who told me that you will not get jobs after the graduation. However, one of the professors sitting in the counselling panel advised me to rethink my decision. I took his advice seriously and decided to take admission in CTAE. In retrospect, that turned out to be wisest decision of my life.

The period of five years spent at CTAE changed me personally and professionally. I think that's true for my batchmates too. We were a very heterogenous group of

about 40 odd students coming from different cities and villages. None of us had any clue about what the agricultural engineering is all about and where will we are going to land up after four years. As it is said that sometimes ignorance is bliss.

The Hostel Life at CTAE – I still miss..

I was among the few who opted for hostel from day 1. I was lucky enough to get Room # 55 in Khosla Hostel, one of the largest rooms across all hostels at that point of time. Our senior batch was appearing for the final examination of first year when I took hostel. I had no choice but to help them in preparing notes and work on their machine and engineering design sheets when I had no clue about these subjects. I can tell you that I was well prepared to take exams in the first few months of first year, courtesy to our senior batch.

The hostel experience at CTAE was quite unique. We had

days and sometime even weeks when mess used to be off for various reasons. We somehow managed and survived. We used to fight for no reason (or stupid reasons) and also laugh together for no reason. I have vivid memories of exam days when we used to eat together in mess to collectively figure out the likely questions in the paper based on the trends and analysis of the question papers of previous year.

The hostel life was one of the most happening aspects of college life and one day I will write a book on it with all the anecdotes.

The academics – one of the faculties and infrastructure

I remember working on lathe machines in the workshop in the first year which we took for granted. I realized later that the best of the engineering colleges did not have a well-equipped workshop like we had. A large campus with well state-of-the-art labs, workshops, classrooms and a very good library was a blessing. The bookbank in the college used to give books for a nominal amount. Can you imagine that I did not purchase even a single book in whole of my engineering.

The faculty was top quality and committed. I remember that we used to sometimes miss classes but professor was always there waiting for students. Their midas touch helped us to get into groove and toned us to embark to take on our professional journeys. We owe a lot to all the teaching faculty and staff for their contribution in the foundation years of our career.

25 years later – A New Beginning

I am very proud of our batch who did exceptionally well for themselves. Many of us cleared CAT and secured top ranks in GATE in the final year of engineering. There was a “junoon” in the third and final year among most of us to prove ourselves and that peer pressure and peer learning helped us get over the line in highly competitive exams.

Personally, for me, it has been a very satisfying professional journey so far and despite being in a non-engineering field, the lessons learned at CTAE has played an important role. However, I feel guilty of not being in touch with the college for last twenty-five years except for being on a few alumni WhatsApp groups.

Silver jubilee reunion is a good time to get closer to the college once again and hopefully for rest of the life. Also, it is time to give back to our alma mater. A few things that I have set goals for myself is to contribute towards setting up an incubation centre to promote and nurture entrepreneurship among students. Innovations in agriculture is opening multiple opportunities for the agricultural engineers. I am sure this will be helpful for other branches too.

Another area where I would love to work with the college faculty is to regularly review the course curriculum to align it with the industry needs. I definitely want to see many more courses in food processing as well as data sciences as part of the curriculum, which have very good prospects.

I am sure the entire batch with their experiences, resources and network has a lot to contribute to the college which we will pursue for rest of our life. After all, it's never too late!!

Hemendra is an investor, mentor and board member in many early-stage agritech and foodtech companies. After CTAE, he did his management from IIM, Ahmedabad and worked with companies like ORG-MARG, KSA Technopak, Rabobank and SEAF in his career. He is working as Venture Partner with Bharat Innovation Fund. He is based in Delhi. His wife – Dr. shruti Srivastava – is a professor in Psychiatry at Guru Teg Bahadur Hospital and his son – Avi Mathur – is studying in 9th Standard.

He can be reached at Hemendra.mathur@gmail.com

Life is a Sinusoidal Wave

Bhupesh Kumar Singhal

Chief Operating Officer, Nabsamruddhi Finance Ltd.

Mumbai, CTAE (1982-87)

Life traverses the path of sine wave having crests and troughs at appropriate intervals. This concept of Physics namely Sinusoidal wave applies perfectly in the realm of human life. Life is full of opposites : pleasure and pain, love and hate, laughter and cry etc. Every pleasureable moment of life is inevitably followed by the moment of pain in equal measure. Probably Newton got the raw material for his Third Law of Force from such patterns of life-wave. The incoming pleasure increases by degrees and touches the crest and then dwindles smoothly before coming to equi-line. Following the laws of nature, the other half cycle of the sine wave starts. This half embodies the pain which reaches at its highest intensity at the lowest point of trough and then begins to disappear slowly and slowly before touching the equi-line. What a beautiful depiction of "Sukh" and "Dukh" by this scientific concept. This life-wave can be looked upon in more than one ways. Looking at sine wave, one can say, "Life is beautiful but it has troughs of pains", or "In spite of troughs of pains, life is beautiful". Both the views are all right because they are based on facts. The earlier interpretation is complaining way of looking at life while the later one is a positive way of looking at it. Again, the thinking pattern too follows the rule of sine wave. A man may have crestful thinking at one moment while troughful thinking at another moment.

The sine wave is also the manifestation of trinity of God - Brahma, Vishnu & Mahesh. Creation, preservation and destruction are represented by crest, equi-line and trough respectively. Nature too follows sine wave. The moon waxes, becomes a full moon, wanes, disappears, but always returns, Winter is followed by spring, then summer, then fall and after another winter, the cycle begins anew. And animals are aware of this, too!

The wavelength of sine wave of each individual is different. We all experience it but we do not know. This wavelength depends upon the good Karmas of present and past births. However, we try to manipulate so that the same experience of crest i.e. "Ananda" comes to us again. But the same thing does not come a second time. We go on manipulating the world but it does not work. God alone knows when we will be happy again. You can

also know if you are able to measure the wavelength by awakening the consciousness.

But this happiness will be followed by unhappiness. So what a common man should strive for? He must try to be near to equi-line. In the second Chapter of our Holy Gita, Lord Krishna advised Arjuna to engage in the battle treating alike pleasure and pain, gain and loss, victory and defeat. Similarly, one should not perform an action for pleasure and refrain from another for fear of its pain. Our aim must be to discharge our duty by treating the agreeable and disagreeable alike. We should not become a prey to the polarities of pleasure and pain, good and evil, love and hatred, the permanent and the transient. Caught in these opposites, man feels the need of a personal divinity (the state of equi-line on sine wave), who is supreme, unaffected by afflictions, untouched by actions and reactions, and free from the experience of joy and sorrow. The equi-line reflects the true yogic state which brings an incoherent and scattered mind to a reflective and coherent state. It is the communion of the self with the Universal Self. In this Fundamental quest of touching equi-line (realization of eternal being) man must devise a code of conduct whereby he could live in peace and harmony with nature, his fellow beings and himself. Let we have our mind steady by refusing to be affected by favorable (crests) and unfavorable (troughs) circumstances by remaining close to the equi-line of the sine wave.

Silver Reunion of 1989-93 batch: It is really heartening and overwhelmingly crestful to witness the silver reunion of Generation X batch from miles away but equally opposite troughful emotion overpowering me for not being able to join the same in person. To channelize this high intensity emotion, I have written above article and dedicate the same to the silver reunion of this batch so as to make each one of my junior from this batch stoic in every low or high. My small piece of advice to you guys is that "be equipoise and dont have misplaced values on status or money". If there is a low, a high is going to follow soon. Be patient. If you understand this early in your life, you will do wonders.

Appreciate Life and Depreciate Stress

Tara Chand Sharma and Nayna Jangid
Silver Jubilee Batch and Cars 24 Barmer

Hello, stressful friends, we all are dealing with stress and anxiety. Sometimes we get wrapped up in the confusion of the mind. Should I do this or should I do that? Ahh! This is not favourable outcome, I expected! We feel stuck in mind like in a quicksand.

Why this happen? There are reasons we get stressed. We believe things are solid not real and take them too seriously. We unskilfully focus on what is wrong and can go wrong. We always blame and judge ourselves and others too. We have habit of constant complaining, focussing on limitations and without giving a full force try, we easily give up.

Our unskilful habits of thought speech and behaviour are killers of our emotional and physical health and relationships. We feel everything around is wrong. But trust me nothing is out of place. Everything is happening as it should. We have become intelligent idiots following too much of concepts, techniques, reading.

We need not to be perfect, we are born unique and have to accept that. We must stop carrying mountains on our back, which we are supposed to climb. We need to simplify our thoughts and accept things as they are or else we can not find a single peaceful, joyful moment in our life.

I would like to share an experience of my friend's life. This young lady was diagnosed with arthritis. She consults too many doctors, so many harmful heavy dose medicines but pain was constant and growing faster. She could see bone deformity, she felt like committing suicide. But a miracle happened. She met a doctor who told her that all pain is going to get worse because she was so stressed and worrying too much. She retrained her brain to be forgiving, acceptance, gratitude. More positive thoughts showing in mind for herself and others. She let go of her past and all wrong thinking. **This change of thoughts made a miracle.** She started running, cycling and always smiling. She could not get out of bed and barely walk with pain but now all those

were gone.

Our feeling and thoughts are interrelated. What you think you feel and what you feel your body reacts to it. Science has also approved **"Physical sickness is related to our mental health"**.

We need to work hard to reach our goals and passion. But don't forget to be yourself. Purpose of life is not just reaching your goals but is to enjoy your road to your goals, to be a human being. Stress drains your energy, we can not think properly or sleep. If being stressed drains us out than why we worry and overthink.

We are born to be happy! Right?

For every biggest problem in life you have a very simple solution. I want you to know that everyone knows that solution. It's inbuilt in us. We just need to take a break, relax and calm down. Give some time, keep talking to your inner self and don't forget to meditate. Think of different perspectives and you will get a solution. There is always a way out. A life without stress. You just have to be light, playful and see life as a dreamlike and malleable.

We need to start focusing on what is awesome and can be awesome, start taking one little step at a time, by taking positive and constructive actions. Start seeing things as perfect and constantly improving. You don't need to change anything in the world, just learn to accept and appreciate it. Little by little pruning that old and nurturing, skilful habit of thoughts, speech and behaviour will row your boat out of storm.

Being actively thankful for all you got in life and follow your inner guidance. Listen to your heart. Science also says **"Heart is more intelligent than your brain"**.

Never give up, get up and rise, rise higher everytime. Never forget life is corrective. You always get one more chance. Practice smiling, positive attitude, forgiveness, kindness, gratitude. You will see miracle sprouting and growing in life.



मेरी कलम से...

मुकेश सिंह अत्री

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सब कहते हैं नादान मुझे, नादान मेरा उपनाम है।
इस नाम से कुछ-कुछ लिखता हूँ, बस यही मेरी पहचान है।

तो प्रकाश डालता हूँ बुरे और भले पर...

जिनको हम बुरा कहते हैं क्या वे वास्तव में बुरे हैं,
या जिनको हम भला समझते हैं क्या वे वास्तव में भले हैं।

भला-बुरा बतलाने का कुछ अजब लग गया रोग रे -
किस किस का जग में बुरा बतावें लोग।

जिनको अछूत कहते हैं हम, हुई उनमें सबरी माई है।
श्री राम ने झूठन खायी थी लिखी रामायण में पायी है।

जिन वैश्याओं को बुरा कहें उनमें चिंतामणि बाई है,
जिल गलकट्टों को बुरा कहो, हुआ उनमें सदन कसाई है।

जिस झूठ को धर्म बुरा कहता, वो कृष्ण ने बोला बचपन से।
दधि चोरी भी तो शुरू हुई, देखो मथुरा-वृन्दावन से।

पर सहा गया नहीं उन्हीं गोपियों से श्रीकृष्ण वियोग रे -
किस किस का जग में बुरा बतावें लोग।

जुआ खेले थे धर्म युधिष्ठिर बात बड़ी है बेढंगी।
जब भीष्म जैसे दरवार में थे और द्रौपदी हो रही थी नंगी।

है नशा बुरा शिव भांग पिये और शिव को कहते हैं भांगी।
लेकिन देखो उन शिव की ही पूजी जाती जग में लिंगी।

कभी आसमान का चांद उतर, गौतम के घर में आया था,
इन्द्र साजिश में शामिल था, मुर्गा बन बांग लगाया था।

और देवदूत को कर्दभ ने, एक अंध विमान रचाया था,
ना धरती पर ना अम्बर पर, कोहरे में पाप कमाया था।

तो... कहीं पै जोगी जोग कर रहे, कहीं पै भोगी भोग रे -
किस किस का जग में बुरा बतावें लोग।

कहते उत्थान नहीं होता, जिस व्यक्ति का हो गया पतन।
वह अधम गति ही पाता है, लाखों चाहे कर ले वो यतन।

पर...

डाकू हत्यारा वाल्मीक, वो बाद में ब्रह्म समान हुआ,
बज्र मूर्ख था कालीदास, जो पण्डित एक महान हुआ।

रौदास जाति से जाटव था, भक्तों में यहां सम्मान हुआ,
रावण को बुरा बताते हैं, ना रावण सा विद्वान हुआ।

तो दोस्तो ...

ना अमुक आदमी एकदम अच्छा, ना एकदम बुरा कहलाता है,
गुण और अवगुण का समावेश, हर इंशा अन्दर पाता है,

हर बुरे से बुरा आदमी भी, कुछ खूबी लेकर आता है।
और भले से भला आदमी भी, कमजोरी स्वयं छिपाता है।

कौन भला और कौन बुरा यह सब एक संयोग रे -
किस किस का जग में बुरा बतावें लोग।

भला बुरा बतलाने का कुछ अजब लग गया रोग रे...
किस किस का जग में बुरा बतावें लोग।

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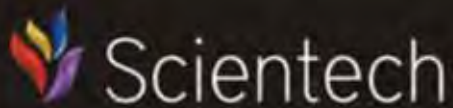


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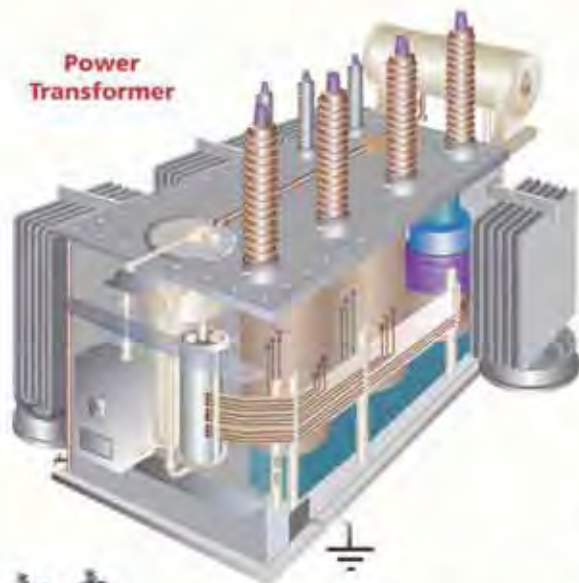
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