



# Dronacharya College of Engineering

## ISSUE

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Applied Sciences & Humanities

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## From Editor's Desk :

**Dronacharya College of Engineering, Gurgaon** has made a mammoth leap in the field of imparting technical education. We train our students on presentation skills, interview skills and content beyond syllabus through modern teaching techniques and utilizing high-tech laboratories to enable them to be abreast with the current technologies. We strive to equip the budding technocrats with courage, conviction, wisdom, creativity and passion for innovation.



As hard work is the key to success, we inspire our students with a sense of good-will to dedicate their entire time of stay at the institution towards enriching their knowledge, creativity and getting transformed into disciplined, skilled and pragmatic professionals to serve the society at large. We also provide a right forum to Dronacharyans showcasing their talents and contribute their bit towards making the dream come true.

Our students always mark new heights in the field of academics, research and extension activities, projects fabrication and exhibition, co-curricular activities, NSS, Blood Donation etc. I, on behalf of the college fraternity wish all our graduates a great success in their endeavours and solicit them to have greater connectedness with the Alma-mater as they scale into newer heights in their life.

**Editor, (Dr. Sunil K. Mishra)**

## From HOD's Desk :

Welcome to the Department of Applied Sciences & Humanities which is imparting knowledge through teaching and creating implementation of practical aspects of Science and Technology to build a solid foundation as part of the Engineering Education. The Department of Applied Sciences & Humanities is one of the indispensable departments of **Dronacharya College of Engineering** and plays a vital role in teaching basic sciences courses as prescribed by the curriculum of **Maharshi Dayanand University, Rohtak**.



Our Department consists of subjects like Engineering Mathematics, Engineering Physics, Engineering Chemistry, Engineering Economics, Environmental Science and Professional Communication. Our department is backed by well educated, talented & dedicated faculty members to fulfil their task. In addition to the primary teaching duties discharged by them; many of them have their publications in National as well as International Journals of repute for attaining perfection in their profession.

The teaching module comprises lectures, tutorials, practical, class tests, assignments etc. The methodology adopted in the classroom teaching is based on the application of innovation strategies, comprehensive lectures, regular assignments and counsellor interaction between teachers and students. The purpose of inducing the subjects of Applied Sciences & Humanities in Engineering study is to lay a well-built foundation of basic concepts for various engineering disciplines. Therefore, the department acts as a fertilizer to develop, the practical approach to explore their hidden talents, personality and communication skills to fulfil the need of budding technocrats. The department provides its students with a number of opportunities to develop their overall personality by participating in the various cultural and co-curricular activities held throughout the year. The faculty members of the department take very active part in organizing these activities.

*Head of Department, Prof. (Dr.) Sri Krishan Yadav*

## New Joining :

On the pursuit to make every student realize the exuberance of his presence in this sanctified college, we are providing re-structured and modern technical facilities to students. Our endeavour is to provide all help for their learning, teaching, research and extra-curricular activities. Our faculty members demonstrate, explain and impart technical education making Dronacharyans employable. We have added the following renowned faculty members to accomplish the long cherished goals of the students.

- **Prof. (Dr.) K. K. Jha**, retired from active services from **DRDO, Ministry of Defence, Govt. Of India** joined us as a Professor of Physics. He got a number of papers published in refereed journals of National and International repute. He has also supervised research scholars for Ph.D and other research oriented activities.
- **Prof. (Dr.) R. C. Sharma**, a renowned scholar in the field of **Infrared Spectroscopy** joined the department as a Professor of Physics. He has got 21 research papers published and another 21 papers presented in various National and International journals, seminars etc.
- **Dr. Vaishali Dixit**, a sound academician in the field of Spectroscopy joined the department as Associate Professor of Physics. She has got 07 papers published and 05 papers presented in reputed journals. Her contribution to research in the relevant field is outstanding.
- **Dr. Binay Kumar**, an expert in the field of Optimization joined us as Assistant Professor of Mathematics. He has contributed four research papers in refereed reputed journals. In addition, he wrote books for the aspirants of business administration.
- **Dr. Jyoti Anand**, efficient and dynamic faculty joined us as Assistant Prof. of Mathematics. She got a number of papers published and also attended several conferences, seminars etc.
- **Ms. Smriti Jha**, a vibrant academician joined us as Assistant Prof. of Environmental Science. She has adequate experience of research and teaching in the field of Nutraceuticals and Alternative foods, Bio mimicry, Nan medicine, Bio fuels, **Biomedical Engineering, Tumour Technology**.

### Extra-Curricular Activities :

In addition of imparting humane and quality education to Dronacharyans, we pay attention making them self-confident, competent and dynamic. We organize a number of technical events and cultural events promoting spirit of team-work and socio-cultural services. We conduct Dron-Tech, Creative Writing Competition, Sports Meet, Blood Donation Camps, NSS Camps for overall development of students.

### Orientation Programme :

We at the department of Applied Sciences & Humanities endeavour to develop a sense of competitive spirit, co-operation, leadership, punctuality as well as provide a back drop for the development of creativity in Dronacharyans. On the day of commencement of the session (**21st August, 2012**), we organised the orientation program to make the students well aware of their class-rooms, laboratories, library, medical cell and auditorium, canteen etc. Addressing the students, **Hon'ble Chairman Dronacharya Group of Institution Dr. Satish Yadav** motivated the students and counselled them how to create a road-map for their career and growth. The Principal DCE, Gurgaon **Hon'ble Prof. (Dr.) B. M. K. Prasad** and Head (Dept. of Applied Sciences & Humanities) **Prof. (Dr.) Sri Krishan Yadav** also emphasized on discipline, attendance punctuality and class/lab work etc.

### Research & Publication :

To keep pace with achievements in Science, Technology and Humanities, the faculty members are always encouraged to contribute their original papers in different journals, workshops, seminars and conferences etc. The following faculty members have contributed their outstanding papers:

- ✦ **Dr. B. B. Sahu** contributed two papers entitled "**Understanding Helicon Plasmas**" and "**Helicon and Trivelpiece-Gould Modes in Cylindrical Collisional Plasmas**". The former is published in **Physics of Plasmas** [American Institute of Physics] in 2012; second is published in **Dronacharya Research Journal** [Vol iv; Issue i], 2012.
- ✦ **Prof. (Dr.) D. K. Singh** contributed his paper entitled "**Time Minimization Transportation Problem with Least Cost**" which is published in **Dronacharya Research Journal** [Vol iv; Issue i], 2012.
- ✦ **Mrs. Parul Mishra** and **Dr. Sunil Mishra** contributed a paper entitled "**Feminine Sensibility in Shashi Deshpande's Roots and Shadows: A Critical Study**" which is published in **Dronacharya Research Journal** [Vol iv; Issue i], 2012.

### Entrepreneurship Orientation Program :

Entrepreneurship Development Cell at **Dronacharya College of Engineering, Gurgaon** celebrated **Entrepreneurship Orientation Program** on **17th August 2012**. The objective of this celebration was to make the students aware about entrepreneurship and its scope for young technocrats.

The one-day program also intended to motivate students to create jobs for themselves and also to develop individuals from varied backgrounds, who have the courage to dream, the potential to make a difference, the ability to believe in themselves and the determination to convert their thoughts into action.

Inaugurating the programme, **Hon'ble Principal Prof. (Dr.) B. M. K. Prasad** enlightened the participants on the necessity of Entrepreneurship in today's world, particularly in India. He also emphasised on the social and political forms of entrepreneurial activity to be undertaken for welfare of society and Nation.

**Hon'ble Guest-Speaker Mr. Ankur Singla, CEO & Founder of AKOSHA, New Delhi** addressed the participants and judged their ideas for better implementation.

Another Guest speaker **Mrs. Kalpana Sinha, NEN Consultant, New Delhi** shared the stepwise approaches to develop business plans and models. **Mr. Anil Garg, Chief Manager, Syndicate Bank, Gurgaon**, shared his experiences of the real entrepreneurial world and also discussed some issues like finance, investment and loan.

A number of exercises like E-Quiz, Idea Generation Exercise etc were conducted to give the students flair of entrepreneurship. Some inspirational videos on the theme "Innovative Ideas for Entrepreneurship" were showcased to prove how we can effectively utilize our limited resources in an efficient way. **Mrs. Swati Jha, member of EDC at DCE, Gurgaon** encouraged the participants to come up with innovative ideas to set up independent "**Campus Companies**" for development of Entrepreneurial Spirit within the campus exactly on **the patterns of IITs and IIMs**.

During the programme, the participants were made aware how to take initiatives and get positive outputs. They were also motivated and inspired to excel in the Entrepreneurial World.

The program ended with **Certificate and Prize Distribution ceremony**. **Dr. Vimla Yadav Member (EDC)** expressed the deepest gratitude to all- organizers, participants and guests.



**Hon'ble Principal motivating the participants**



**Dean Academics addressing the students**



**Mr. Ankur Singla, CEO & Founder of AKOSHA, New Delhi sharing his experiences**



**Mr. Anil Garg, Chief Manager, Syndicate Bank, Gurgaon talking about financial Aspects**



**First prize winner of Idea generation exercise**



**An active participant receiving the certificate**



## *Student's Viewpoints :*

I take pride on being associated with Department of Applied Sciences and Humanities. This department has a good lab facility. I found the faculty members of this department, who are disciplined, hard working, sincere and pains-taking not only in academic but also in shaping the overall personality of the students.



*Sonali Grover (Roll No. 15523)*

It gives me immense pleasure to be associated with Department of Applied Sciences and Humanities where I can gain not only the technical knowledge but also improve my personality. I am really thankful to my HOD and faculty members, for grooming and nurturing us overall.



*Viplav Kataria (Roll No. 15664)*

I am highly obliged to be a member of ***Dronacharya Gurukul***. The college is situated in the midst of sylvan surroundings. The faculty provided by the Management is highly qualified and experienced. Students get a congenial atmosphere for studies. Co-curricular activities relieve the strain and contribute to convert a student to a good student.



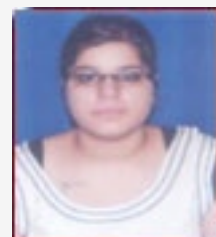
*Priyanka (Roll No. 15212)*

Tradition blended with modernity, discipline knowledge and perfect guidance: this is what defines ***Dronacharya College of Engineering***. Our prestigious modern Gurukul provides a perfect platform for future engineers to develop their skill set with the help of highly trained and experienced faculty members. The unique approach of our Gurukul helps students to develop and lead to right path heading towards progress and success.



*Abhishek Jain (Roll No. 15004)*

At the outset, I feel proud to be a member of ***Dronacharya College of Engineering*** family. The best feature I observe is the faculty members who touch all the rings of life to make their student a perfect human being. In addition to the academic field, efforts are being made to improve the moral values in the student. They motivate us to aim high and settle for nothing less than the best.



*Himanshi Grover (Roll No. 15474)*

I am very happy to be associated with the Department of Applied Sciences and Humanities, Students, here are encouraged to strive for the best in everything they do. Our respected HOD and all Faculty members are ever-willing to help the students out of any problem academic or non-academic issues. The department has well-equipped labs and excellent atmosphere for studies. In a nutshell, it can be said that **Dronacharya Gurukul** does the duty of converting a raw student into a self-dependent, sincere and a hard-working technocrat as well as a good citizen.



*Rishabh Prateek (Roll No. 15731)*