

Sampada

Your Window to UVCE

SpecialREPORT

◆ IMPETUS 2012

The annual Technical fest of University Visveswaraya College of Engineering (UVCE), IMPETUS'12 was inaugurated ...

◆ Encouraging Entrepreneurs

With this idea in mind Entrepreneurship cell or E-cell was set up in our college by the Vision UVCE team...

◆ FRESHNESS IN MARCH

March marks the beginning of Spring and I am very happy to share my experience with all of you

◆ PARICHAYA

Hailing from a family of Professionals, Sunil Abraham was an outstanding student and sportsman at school (St Josephs Boys High School) and at college ...

◆ VINIMAYA

The VISION UVCE team has provided the students a great platform where we can exchange and share books. It is similar to a library, but it is by the students, and for the students...

◆ MILAGRO 2012... Coming Soon !!!



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VU CHALLENGE 2

LAST DATE
APRIL 30th,

THIS MONTH ISSUE

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ಸಂಪಾದಕೀಯ

ನಲ್ಮೆಯ ಓದುಗ ಮಿತ್ರರೇ,

ಮಗದೊಂದು ಸುಂದರ 'ಸಂಪದ' ಸಂಚಿಕೆಯನ್ನು ತಮ್ಮ ಮುಂದಿರಿಸುತ್ತಿರುವುದಕ್ಕೆ ಅತೀವ ಸಂತೋಷವೆನಿಸುತ್ತದೆ. ಮಾರ್ಚ್ ತಿಂಗಳು ಕಾಲೇಜಿನಲ್ಲಿ ಒಂದು ತರಹದ ಪರ್ವಕಾಲ. ಕೊನೆಯ ಸೆಮಿಸ್ಟರಿನ ವಿದ್ಯಾರ್ಥಿಗಳಲ್ಲಿ ದಿನ ನಿತ್ಯ 'ಪ್ರಾಜೆಕ್ಟ್' ಮುಗಿಸುವ ಕಾತುರ , ಆಗಲೇ ಉತ್ತಮ ಉದ್ಯೋಗ ದೊರೆತಿದ್ದರೂ ಇನ್ನೂ ಉತ್ತಮ ಅವಕಾಶಗಳಿಗಾಗಿ ಪ್ರಯತ್ನಿಸುವ ಹಂಬಲ, ಕಾಲೇಜು ತೊರೆಯುವ ಮುನ್ನ ವೈಭವದಿಂದ 'ಮಿಲಾಗ್ರೋ'[ಕಾಲೇಜಿನ ಸಾಂಸ್ಕೃತಿಕ ಉತ್ಸವ] ನಡೆಸುವ ಕಾತುರ ಕಂಡುಬಂದರೆ, ಮೂರನೇ ವರ್ಷದ ವಿದ್ಯಾರ್ಥಿಗಳು 'ಇನ್ನೊಂದೇ ಪರೀಕ್ಷೆ ಮುಗಿದ ಬಳಿಕ ಉದ್ಯೋಗ ಅರಸುವ , ಸದಾ ಚಟುವಟಿಕೆಯಲ್ಲೇ ತೊಡಗಿರಬೇಕಾಗುವ ಕೊನೆಯ ವರ್ಷಕ್ಕೆ ಕಾಲಿಡುತ್ತೇವೆಂಬ' ಆತಂಕ ಹಾಗೂ ಕುತೂಹಲಗಳ ನಡುವೆ ಸಾಧ್ಯವಾದಷ್ಟೂ ಮೋಜಿನ ದಿನಗಳನ್ನು ಅನುಭವಿಸಿಬಿಡೋಣ ಎಂಬುವ ತವಕ. ಮೊದಲನೇ ವರ್ಷದ ವಿದ್ಯಾರ್ಥಿಗಳಾದರೂ ಪಿ.ಯು.ಸಿ. ಯ ಉಸಿರುಕಟ್ಟಿಸುವ ಅಭ್ಯಾಸಗಳಿಂದ ಸ್ವಲ್ಪ ಸ್ವಲ್ಪವೇ ಹೊರಬರತೊಡಗಿದರೆ, ಎರಡನೇ ವರ್ಷದ ವಿದ್ಯಾರ್ಥಿಗಳು ಎನ್ಟಿನಿಯರಿಂಗ್ ಜೀವನದ ಅಂತರಾಳವನ್ನು ಕೊನೆಗೂ ಅರಿತ ನಿರ್ಲಿಪ್ತ ಸ್ಥಿತಿಯತ್ತ ತೆರಳುತ್ತಿರುತ್ತಾರೆ. ಅಗತ್ಯವೆನಿಸಿದರೆ ಪ್ರತಿ ವರ್ಗದ ಒಬ್ಬೊಬ್ಬ ವಿದ್ಯಾರ್ಥಿಯನ್ನು ಸುಮ್ಮನೆ ಮಾತನಾಡಿಸಿ ನೋಡಿ - ನಿಮಗೇ ತಿಳಿಯುತ್ತದೆ 'ಮಾರ್ಚ್' ತಿಂಗಳು ನಿಜಕ್ಕೂ ಕಾಲೇಜಿನಲ್ಲಿ ಪರ್ವ ಕಾಲವೆಂದು.

ಈ ತಿಂಗಳಿನಲ್ಲಿ ಕಾಲೇಜಿನಲ್ಲಿ ನಡೆದ ಕಾರ್ಯಕ್ರಮಗಳಾದ 'ಇ-ಸೆಲ್ ಉದ್ಘಾಟನೆ', 'ಇಂಪೆಟಸ್' ಗಳ ಕುರಿತು ವಿವರಗಳು, 'ಸುನಿಲ್ ಅಬ್ರಹಾಂ ' ಅವರ ಪರಿಚಯ ಮುಂತಾದ ಲೇಖನಗಳನ್ನು ಈ ಸಂಚಿಕೆ ಒಳಗೊಂಡಿದೆ. ಈ ತಿಂಗಳು ನಮ್ಮ ತಂಡದಿಂದ 'ವಿ ಯು ಹಾರ್[VU HOUR]' ಎಂಬ ಕಾರ್ಯಕ್ರಮ ಹಮ್ಮಿಕೊಂಡು ವಿದ್ಯಾರ್ಥಿಗಳೊಡನೆ ಅವರ ಅನಿಸಿಕೆಗಳನ್ನೂ ಚರ್ಚಿಸಿ, 'ವಿ ಯು ಚಾಂಪ್ಸ್ ' ಎಂದು ಆಯ್ಕೆ ಮಾಡಲಾದ ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ಅಭಿನಂದಿಸಿದೆವು, ಅಲ್ಲದೆ 'ವಿನಿಮಯ' [ಪುಸ್ತಕಗಳನ್ನು ಅದಲು ಬದಲು ಮಾಡಿಕೊಂಡು ಓದುವ ಹವ್ಯಾಸ ಬೆಳೆಸುವ ಕಾರ್ಯಕ್ರಮ]ಕ್ಕೆ ಅಂದೇ ಚಾಲನೆ ನೀಡಿದೆವು. 'ರಾಮನವಮಿ'ಯಾ ಹಿಂದಿನ ದಿವಸ ಕಾಲೇಜಿನ ಆವರಣದಲ್ಲಿ ಪಾನಕ, ಮಜ್ಜಿಗೆಗಳನ್ನು ಹಂಚುತ್ತಿದ್ದುದು ವಿಶಿಷ್ಟವೆನಿಸಿತು. ಹೀಗೆ ಲವಲವಿಕೆಯಿಂದಿದ್ದ ಕಾಲೇಜನ್ನು ನೋಡಲು ಖುಷಿಯನಿಸುತ್ತಿತ್ತು.

ಎಲ್ಲರಿಗೂ ನೂತನ 'ಸಂವತ್ಸರದ ಶುಭಾಶಯಗಳು [ಬಹಳ ತಡವಾಗಿ , ಆದರೂ ಸೌರಮಾನ ಯುಗಾದಿಯು ಇನ್ನೂ ಬರಬೇಕಿದೆಯಾದ್ದರಿಂದ ಸಮಂಜಸವೂ ಇರಬಹುದು]. ಬೇಸಿಗೆ ಬಿರು ಬೇಗೆಗೆ ಈ ಸಂಚಿಕೆಯ ಪನ್ನೀರ ಸಿಂಚನದಂತೆ ತಂಪನ್ನೀಯುವಲ್ಲಿ ಸಫಲವಾಗುತ್ತದೆ ಎಂಬುದೇ ನಮ್ಮ ಆಶಯ.

ಇಂತಿ ನಿಮ್ಮ ಪ್ರೀತಿಯ

ವಿಷನ್ ಯು.ವಿ.ಸಿ.ಇ. ತಂಡ

GUEST EDITORIAL

We are inviting Guest Editors for SAMPADA !!!

Here is your chance to share your thoughts through the platform SAMPADA with your fellow Alumni !!!

If interested, do let us know...We are more than happy to assist you... Send a mail to sampada@visionuvce.in with your details and interests. We shall discuss about the future editions of SAMPADA in advance to give you time for the Editorial writeup !!!

IMPETUS 2012

The annual Technical fest of University Visveswaraya College of Engineering (UVCE), IMPETUS'12 was inaugurated by M S Gopinatha Senior Engineer, Siemens Industry Software at the college campus on 30th march 2012.

Speaking on the occasion, Gopinatha, an alumnus of UVCE, stressed on green engineering and urged the students to implement the concept of recycle and reuse in order to ensure sustainability. He asserted that our country with its rich culture and heritage is bound to become the knowledge power house of the world.

Dr. Venugopal K R, principal UVCE, said that India is a young and dynamic country which is on the threshold of becoming the world's vibrant economy in years to come. He added that the students have to participate in extra-curricular activities apart from the mundane academic curriculum to enhance their career prospects and build capabilities in technical, non-technical and soft skills to improve their employability and add value to their academics.

The technical extravaganza IMPETUS 2012 played a host to out-of-the-box programs such as giving an insight into the electronic design concepts by *Switch Play* and *Tristate*, *iLead* to bring out leadership qualities, *Endurance* to hone programming skills, *Ad-venture* to extract the marketing abilities, *Women Empowered* to instil confidence, *Busyness* and *Summit* to develop team spirit and speed and *Mock Recruit* to get a feel of the corporate world. There were also regular events such as *Pot Pourrie*, *Quiz*, *Robotics*, *Mc-CAD* and *Gaming*. More than 1000 students from engineering colleges across the state took part in the two-day extravaganza. IIIT-B, BMSCE, and UVCE walked away with many prizes.

Dr Venugopal K R, principal UVCE felicitated Ranjitha, Akhila, Vidyashree, Soumya, Murali Mohan, Pavan and Manjunath, the toppers of the college, for their outstanding achievement.



Events that took place :

Showdown - General quiz event; **Switch Play** - A circuit designing contest; **EnduranCe** - On spot Programming contest ; **Pot Pourrie** - Dumb charades and Pictionary at its best ; **Recruit** - Mock placement event conducted by CTS; **Chip Craft** - A new event introduced to provide platform for embedded program coders to showcase their fascinating projects; **iLead** - One more new event to test the leadership qualities; **women Empowered** - Interactive and thought provoking events for women engineering students to bring the best out of them; **Ad-venture** : Fun even to showcase the marketing capabilities of engineers; **Summit** : Panel discussion on the topic “Engineering for society” with students and eminent IEEE GOLD members and also NGOS; **Tristate** - Event based on digital electronics; **McCAD** - An event for CAD designers ; **Robotics** - A much eventful and interesting showcase of microcontroller programming skills ; **Busyness** - How good an entrepreneur an engineer can be in future ? on getting an opportunity to be one; **Virtual Derby** - Gaming event; **MockStock** - Online event simulating the stock world; **Epsilon** - A cyber treasure hunt event ; **Web designing** - for the creative web designers ; **E-Picasso** - Photoshop design contest ; **Short Film Making** - “Engineering for the society” was the theme for the film making.

As evident from the event list a huge, huge number of amazing events which addressed almost all technological gems and were conducted so neatly. A big salute to the organizing committee and all the enthusiastic volunteers for making it happen.

Year by year the fests in UVCE are becoming more and more mature to cater the thirst for completeness. But the real painful thing is that very less participation on such great occasions. So we would like to make a humble request to all UVCEians to support such great deeds at least by participating from now on. We hope that our request will be addressed with some good will.

IEEE UVCE

Encouraging Entrepreneurs

“The entrepreneur builds an enterprise; the technician builds a job.”

With this idea in mind Entrepreneurship cell or E-cell was set up in our college by the Vision UVCE team. The prime focus of this initiative is to develop a sustained platform that supports students from UVCE in starting up their own venture, thereby realizing their ideas and converting them into reality.

The formal inauguration took place on March 12 2012. The guest of honour was, Mr Ravi Kiran entrepreneur at Teri Tree technologies who is also the Vice Chairman - IEEE Bangalore Section. He quoted -“Man cannot discover new oceans unless he has the courage to lose sight of the shore.” and led the attention and thoughts of the students towards the central theme of the session "entrepreneurship and risk taking ". He gave a presentation regarding the same in which he advised us to look for , not a job , but an experience in a start up. He also said in countries like USA doing something is normal, but getting into a job is an exception but in India its vice versa. Speaking as an entrepreneur and enlighten us about the challenges his Simple Steps for Reference were :



1) Motivation: Get inspired by the people around you, find motivation in objects that interest you.

2) Pick a team: Highly important step with a slight risk involved, choose people with complementary capabilities rather than the ones of the same ability as it leads to conflicts of interest among the similarly able teammates. And that way work can be equally shared between people as well .

3) Innovation is not the only key to success , it s a start , once an idea takes hold of you , find a market for the idea , check if there are customers for your idea , if not check if you can create a need for the idea.

4) Finally Market it and hence success follows.

Dr. Venugopal K R, principal UVCE, said that India is a young and dynamic country which is on the threshold of becoming the world’s vibrant economy in years to come. He pointed out that we have abundant natural resources and it is necessary to provide quality infrastructure to the teeming talented teens and youth to embark upon entrepreneurship and overcome the attraction of looking out for lucrative easy going white-collared jobs in government sectors.

Following this, Satish gave a presentation which included topics like what is entrepreneurship, what in the need for an E-cell and its benefits. He also highlighted the events for next year which included

- **VINIMAYA** - Book Exchange program initiated and co-ordinated by First Year students. More details to be announced soon, within a week or two...
- **Entrepreneurship Workshop** - Half Day Event; Discussion and Activities to help build the understanding about Entrepreneurship
- **Open House** - Discussion within students; Feedback; Requirement Collection
- **Enter The Entro** - One Day Event; Couple of Events/Competitions; Guidance/ Tips from Alumni

To give the students a taste of E-Cell , they were introduced to a unique idea 'Mall -a - maal' , wherein the participants guised as entrepreneurs were to set up their store at a virtual UVCE Mall .The interested crowd was divided into a team of 5 , each team was to come up with the name of their store and a product to market .It was then presented to ,the highly experienced in the field, Mr Ravi Kiran and few others and the criticisms and compliments were showered upon.



The very first team to volunteer came up with their store WHISB (where have I seen this before). They were asked the between difference coffee shops and their hub.

The second team was BAK @ UVCE (books, arts, kitchen) it was a combination of a food centre, library and an art gallery. Where they would keep study materials and books needed for BU students. Their sustainability was put to test in this case.

The third team was a service oriented group who offered the middle man help service. The fourth team was about hosting a torrentz server which was told it would support piracy. The fifth team was about having a camera rental in the mall for which issues like manual labour, tracking of cameras, privacy issues were dealt with. The audience quickly caught up with the enthusiasm and critiqued upon the ideas. Sweets were distributed to all participants and audience.

Nagadarshini N & Maithreyi G Rao

Letter from the CM during Golden Jubilee Celebrations

Veerendra Patil
Chief Minister

“VIDHANA SOUDHA”,
BANGALORE-1
Dated 2nd December, 1968

I am happy to learn that the University College of Engineering, Bangalore, is celebrating its Golden Jubilee in the second week of December 1968, and to mark this occasion a Souvenir is going to be published. The venture is laudable as the College is one of the premier technical institutions in the Capital City of Karnataka. It owed its origin to the farsightedness of Dr. M Visvesvaraya, who as Dewan of Mysore, wanted to have a full-fledged Engineering College in the city, so as to prevent Mysore students from seeking admission in the Poona or Guindy Engineering College. It was a known fact that prior to the starting of the Engineering College, students were sent to distant Provinces to obtain the B.E degree. From a student strength of about 30 in the beginning the College has grown from strength to strength with an intake of 240 at present including 40 girl students. I am also happy that the products of the College have become distinguished Engineers in India. The institution was greatly shaped by the late Shri K. R.Seshachar, who held the post of the first Principal. He was himself a great Irrigation Engineer, who took active part in building the K.R.S.Dam. He had able successors, who brought lustre to the college. Kannadigas are proud and happy that the University Engineering college, which has gained an All-India reputation is celebrating its 50th anniversary. I wish the institution all success and hope that it will remain for long to serve the technical needs of India. I take great pleasure in commending the souvenir to the general public.

Veerendra Patil

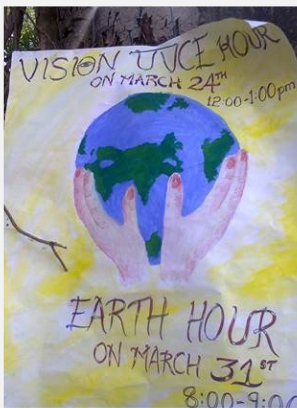
FRESHNESS IN MARCH

Spring is nature's way of saying, 'Let's party!'"~Robin Williams.

March marks the beginning of Spring and we are very happy to share our experience with all of you, because it has a touch of freshness to it. It has been one of the most active months that Team VisionUVCE got involved in a number of college activities. We witnessed the enthusiasm and keen interest to learn and participate from the students. We will try to give an overview about the 3 major events happened during month of March.



The first event was the inauguration of E-Cell in college on March 12nd. VisionUVCE, in association with Placement Office, UVCE has initiated a long term plan- Entrepreneurship Cell. We want to motivate and guide the students who have the inclination of starting their own ventures. The main intention is to nurture the ideas and provide a platform to showcase them. We had a full house during the event, with around 70-80 students participating actively. Mr Ravi Kiran, alumni of 1991 batch, an entrepreneur himself and also the Vice Chairman - IEEE Bangalore Section was invited as the guest. He spoke about the various challenges that arise in this journey and provided insight to various aspects of having start-ups. TeamVisionUVCE presented the plan for this semester and conducted an event called Mall-a-maal to bring out creative ideas from the students. The questions posed during the presentation would have definitely helped them to fine tune and rethink about their strategies.



Next event was VU Hour on March 24th. In lines with Earth Hour to be celebrated on Mar 31st, Team VisionUVCE conducted VU hour in order to create awareness about various VU initiatives and recognize students who have actively contributed in various initiatives. We also used this opportunity to announce couple of more initiatives too. VU Champs for this Quarter were announced and all the 10 VU Champs were provided with goodies. Winners of Quiz Lounge of March were given goodies too. Brief idea about VINI-MAYA was given by the coordinators to their other friends. VU Challenge-2 was announced, which will help students not only to sharpen their technical skills but also to develop teamwork. We, from VisionUVCE thank everyone who attended the event and congratulate all the winners.

“IMPETUS” – an event which always brings back memories of our active participation during college days. We witnessed and tasted its success this year too. Various competitions which put the technical skills of students on line and made them brighter were organized. One of the events that caught our attention was “ROBOTICS”. We were really happy as well amazed about the talent of the students in creating the Manual Robots. Innovative thinking, mastery over gadgets and equipment, time sense - were all at display during the event. We heartily congratulate the organizers and the participants. We will definitely want more such events and offer all kind of help from Team VisionUVCE.

We hope that coming days will also be as active and cheerful as ever in the college , am sure that the students make the most of it. We, Team VisionUVCE, are more than happy to associate ourselves with college as it is providing a platform to all of us to stay in touch with the students and to learn new things.

“Coming together is a Beginning, Keeping together is Progress, Working Together is Success”

PARICHAYA

Hailing from a family of Professionals, Sunil Abraham was an outstanding student and sportsman at school (St Josephs Boys High School) and at college (University Visvesvaraya College of Engineering). He completed his Engineering Studies with a distinction.

He started his athletic career at the age of 17 years and was Karnataka's top sprinter from 1977 to 1981 and top sprinter of Delhi from 1981-1983. He represented India on three occasions, the notable point being the Asian Games.

Having been a self-trained athlete, he felt that athletics in India could do better with some dedicate involvement in coaching, especially since he experienced the kind of coaching, involvement and support, the trained athlete.

Having virtually given up a career as a n engineer, he founded Sure Athletic Movement, a Registered Trust with 80G clearance, in 1987 and with the help of some like minded people. This has been a pioneering effort in Indian Sports aimed at providing the talented child a future in athletics with free coaching, competitions and the support to ensure progress.

In all, till he quit professional sport, the results at the Nationals are 49 Gold, 42 Silver and 44 Bronze; 6 Gold, 1 Silver and 1 Bronze medal with records at the South Asian Games; 5 Gold, 5 Silver and 2 Bronze at the Asian Level.

He has produced 18 National Medalists and they have broken a number of National Records in various disciplines of athletics. Not many coaches have produced athletes in multi-disciplines of athletics like sprints, middle distance, long distance, cross country, hurdles, jumps and multi-events.

Two Arjuna Awardees Ashwini Nachappa and Reeth Abraham, were nurtured under his guidance. Both of them broke all the existing records at the South Asian Games at Islamabad and they tallied five in number. The athletes under his guidance have participated in SAF Games, Asian Championships, Asian Games, World Athletic Championships, Olympic Games.

His outstanding contribution have led him to be appointed both as a State and National coach. He was the Assistant to Technical Director of National Championships in Bangalore (1995-96). He was later appointed as Technical Director of IOA- Citibank Olympic Run in Bangalore(1996) and IOA -Khelcom Olympic Run in Chenaai (2000)

From the year 1987 to 2000, he has organized over 25 well-received competitions, some of with an International participation, which was appreciated by participants, officials and media. He has won the Karnataka State Award in 1981 and Karnataka State Rajyotsava Award. He has also won awards from Rotary Club, Tata Sports Club(Bombay), Hinduja Sports Foundation and many more...



Sunil Abraham, with his wife Reeth Abraham

If you know any UVCE Alumni who could be featured in PARICHAYA section which will help us in knowing our fellow alumni better and motivate the present students , please send us the details at sampada@visionuvce.in

VINIMAYA

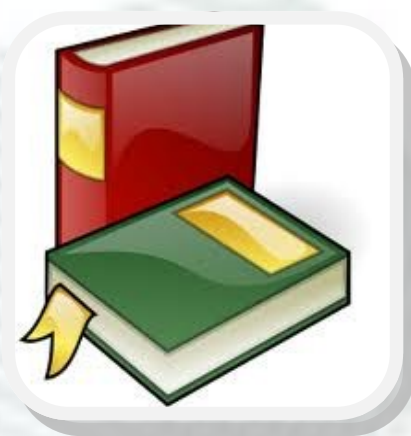
The VISION UVCE team has provided the students a great platform where we can exchange and share books. It is similar to a library, but it is by the students, and for the students. The books we find here are non-academic. Recognizing the importance of inspirational and motivational books in the life of students, the VU team has supported the initiative of starting “VINIMAYA” – the book exchange program.

VINIMAYA was inaugurated along with the E-cell (Entrepreneurship-cell), another venture of the VU team which gives students a chance to submit their own ideas and encourages them to become future entrepreneurs. It was inaugurated by Mr. Ravikiran, the CEO of “TERITREE”, a successful entrepreneur and alumnus of UVCE. He encouraged and inspired students to a great extent. As a starting event, students were given a time of 20 minutes to form groups and submit their new and innovative ideas about an imaginary stall in UVCE. The enthusiastic participation of students was a very good sign of start for E-cell.

“VINIMAYA”, which has the meaning –Exchange, gives the students a chance to read the books which are not available in the college library. When we, from the first year, approached the seniors with the idea, they encouraged us to go in detail with more proper structure. After couple of rounds of discussion, we are confident of starting this venture with the support from seniors and alumni.

Going forward, the plan is VINIMAYA will be open on Tuesday and Thursday of every week. On Tuesday, the students discuss the books they want and on Thursday the person who has the book gets it and exchanges it.

We welcome all kind of suggestions and support for VINIMAYA program from both the students and alumni group.



Swaroop (1st year B.E.)

FACEBOOK SAMVAADA

Starting this **Sunday, 15th 2012**

Time: **7PM to 8PM**

Topic will be announced in the VisionUVCE Group at the earliest !!!
If interested to participate and share your thoughts with present batch students,
please let us know through mail: samvaada@visionuvce.in



Sir M V's Speech - Words of Wisdom from the eminent statesman

This section of the speech is the continuation from the previous edition where it was initiated. Please go through the previous edition to follow the legendary Sir M V's farsighted thoughts ...

It is a fairly long-standing complaint that the production of steel, automobiles and aircraft has been unnecessarily delayed although private effort had advanced them to a material extent without the support of Government.

On the whole, rapid industrialization is one of the most urgent needs of the country.

Government exercise too much control and private initiative and activities are thereby materially restricted.

In India, however, Government want to supervise important technical works, in some cases without technical knowledge in the men put in charge of them.

There is a very large population without employment for many months in the year. In Western countries population is taken as an asset because it is educated. In India it often constitutes a burden. It is not sufficiently educated and used for productive and creative purposes, benefiting the country, as is done in most Western countries.

I hope that the serious nature of this defect will be taken into consideration and that every effort will be made to educate our people, particularly workers as Russia and Japan have done as a preliminary step to productive activities. Special consideration should be given also to compulsory education and mass education.

Technical or vocational education should be considered in three grades as under:-

- Training of an adequate number of technologists or experts of high technical ability in various arts and professions.
- Training secondary grade technicians and businessmen to prepare them for work of foremen, managers and upper subordinates of factories and business concerns.
- Training artisans, craftsmen and businessmen to supply actual workers for all occupations and trades including subsidiary professions like accountancy and estimating.

The last class, that is, artisans, skilled workmen, farmers, smiths, carpenters, small shopkeepers and salesmen, etc., will have to be trained by millions, in all parts of the country.

The relative numbers to be trained under each of the three grades for any region should be arranged by calculation based on the needs and requirements of the occupations of profession as is done in advanced Western countries and Japan.

What Russia did to industrialize is significant in this connection. Ambitious training schemes were launched and special technical schools and colleges of University standing established. These were supplemented by factory schools where shorter courses of instructions were given.

As a result, over a period of two quinquennia the number of skilled mechanics is reported to have increased fourfold and industrial scientists sevenfold.

During a visit to Salt Lake City in America a long time ago I noticed that the subjects of vocation, Elements of Mechanical Engineering and of Commerce were being taught in High Schools.

The President of the famous Massachusetts Institute of Technology told me that they were giving the highest education in Engineering and he wanted that these students should be in close touch with industries to give them a practical, businesslike start in future Engineering works. He found it difficult to carry out this part of the programme on account of insufficient industries in the neighborhood.

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