



Vidya Vikas Education Trust's

Universal College of Engineering

Approved by AICTE, DTE, Maharashtra State Government and Affiliated to Mumbai University
Accredited with B+ Grade by NAAC | Recognised as Linguistic (Gujarati) Minority Institution

CURRENT

WAVES

AN INITIATIVE BY EXTC DEPARTMENT

MAGAZINE

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Electronix quotes



“A good scientist is a person with original ideas. A good engineer is a person who makes a design that works with as few ideas as possible. There are no prima donnas in engineering.”

– Freeman Dyson

“Manufacturing is more than just putting parts together. It’s coming up with ideas, testing principles and perfecting the engineering as well as final assembly.”

– James Dyson

“ Architects and engineers are among the most fortunate of men since they build their own monuments with public consent, public approval and often public money.”

– John Prebble



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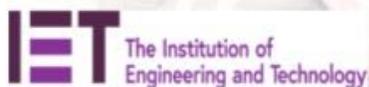
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TWO DAY WORKSHOP ON IOT THROUGH WEBINAR



UNIVERSAL



The Institution of
Engineering and Technology

A Live Webinar Series

14th - 15th May, 2020

Internet of Things (IoT)

Register here:

<https://forms.gle/7y4kLUvAd1ptzoAd6>

Join us on Telegram for all updates

<https://bit.ly/2xSr9ju>

To participate in the Course: Please Join the meeting on the given sessions according to the given schedule.

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Universal College of Engineering, Kaman (Maharashtra)

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in association with

The Institution of Engineering and Technology
is organizing

A Webinar on IoT (Internet of Things)

Instructions to Course Participants:

- It is a blended course. The course will be conducted on YouTube Live. Link will be shared on telegram .
- Registration of the confirmed participants in our official link is mandatory to get an official CERTIFICATE.
- At the end, all the candidates will get an official certificate for the course completion.
- Certificates will be issued only for the candidate who have attended all the online sessions and submitted feedback form.
- The Feedback link will be open only for 45min after the session gets over.

Date/ Time	10:30 am to 11:30 am	12:00pm to 1:00 pm	02:30pm to 3:00 pm
(Thursday) 14.05.2020	Introduction to IOT by Mr. D.S Sawant (Assistant Professor Mechatronics dept MPSTME NMIMS)	Overview of Internet of Things by Mr. Vikrant Sankhe (Marketing and Strategy Head, Siemens Limited, 21 years of experience in Automation, M2M / IoT, Analytics and Digitalization.)	Interfacing sensors with Arduino Mr. Sandeep Dubey (Assistant Professor of EXTC Department)
(Friday) 15.05.2020	Raspberry Pi Hardware Setup by Mr. Sandeep Dubey (Assistant Professor of EXTC Department)	" IT in IOT " - Mr. Vimal Chaubey Information Technology Analyst, TCS. YP Chair-Person IET Mumbai LN Member IET YPCSA	Developing COVID19 social distancing devices using Arduino Mrs. Kaveri Sawant (H.O.D of EXTC Department)

Flyer of workshop on IOT by prominent industry person and academic individuals

Details of the workshop:

The Department of Electronics and Department of Electronics and Telecommunication conducted a two-day workshop on Internet of Things and its application in real life scenarios. The speakers highlighted the need to shift from analog devices to smart devices in the upcoming future for smooth running of applications and devices.

The details of the speakers are mentioned in the flyer posted above. In all, a total of 700 participants were benefitted with e-certificate and learning which they could cherish for their entire life.



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SOME PEARLS OF WISDOM ON ENTREPRENEURSHIP

Q: Once you have the idea to start-up and you are determined to it, what are the other official stuff needed done before starting the company?

Answer: Official things don't matter as much. You can even start as a sole proprietorship or partnership until you incorporate as a limited company.

The most important thing is finding a paying customer. Until someone pays for your product/service, you don't have a company nor yours is a valid idea. The sooner you can find someone to pay for what you are building or even better — build something someone wants to pay, the higher are your odds of success.

That is the hardest part. Incorporating a company followed by setting up a bank account, getting a tax id etc. are all done with a consultant and need not be very expensive. If you find a paying customer, these things are just a tenth of the difficulty.



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SOME PEARLS OF WISDOM ON ENTREPRENEURSHIP

Question: How did Zuckerberg, Bill Gates, etc. make an impact on the world with their code even though they didn't participate in any coding contests or were top coders?

Answer: Coding, like painting, is an art. It cannot be reduced to a mere contest.

However, real world coding is nothing like a programming contest. You have to imagine real problems of the customer and work weeks, months and years in perfecting the solution for that customer problem. The solution might not be elegant nor optimal, but just enough to get the job done. However, the problem might not be anywhere well defined either.

Coding contests don't test your ability to understand the language and the various essential libraries. It doesn't test your ability to understand large mountain of code with a whole bunch of band aids.

Coding contests help sharpen the skills of the developer and would help a lot in their career. But, it is not really essential to be a great developer.

And oh btw, Zuckerberg or Gates are not essentially the world's best developers. They are excellent entrepreneurs who were able to rapidly iterate on ideas until something worked.



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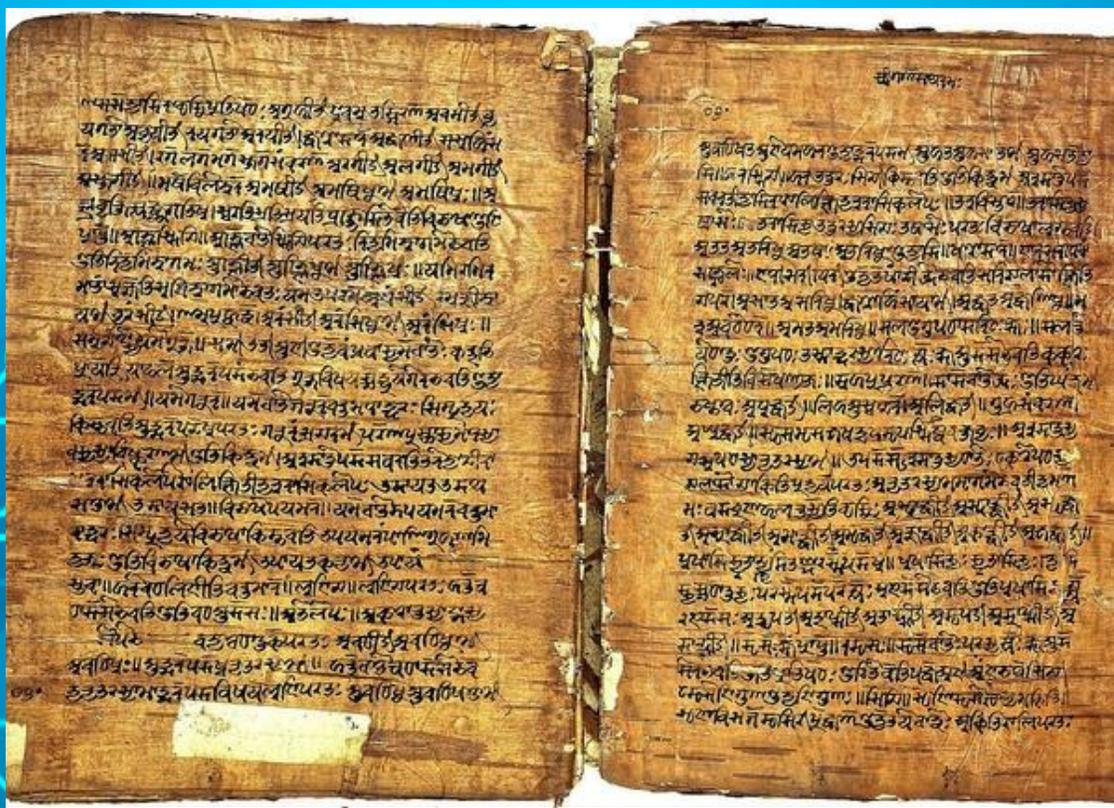
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LET US TAKE A STROLL THROUGH HISTORY

Who was Sage Panini, and what did he really do?

Answer: Today, many recognize the Swiss linguist **Dr. Ferdinand de Saussure**, as the father of linguistics, but **Dr. Ferdinand**, who actually was a professor of Sanskrit at the university of Geneva, himself credits the seminal work of an ancient Indian as the primary source of his inspiration.^{[1] [2]}

While almost nothing is known for sure about the personal life of this ancient Indian, what we have today is a short book of grammar called **Ashtadhyayi**, comprising of 8 chapters, with each chapter sub-divided into 4 parts, containing a total of **3959 sutras** or formulas, which collectively is considered as the most complete system of grammar of any language yet written.^{[3] [4]}



A system so perfect and complete that the great American Linguist **Dr. Leonard Bloomfield**, called it as the greatest monument of human intelligence. **This ancient Indian, is Sage Panini.**



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Awe-inspiring grammar, for an incredible language

Stop, don't go!

Don't stop, go!

As you might have noticed, sometimes, a slight jumbling of words, or the placement of punctuation, changes the meaning of a sentence. Most known languages suffer from this issue. Most languages, except Sanskrit.

Except for a specific set of instances, any change in the arrangement of words, does not affect the meaning of the sentences in Sanskrit.

Among other things, this unique quality makes Sanskrit the most poet friendly language in the world.

This is thanks in large parts to a very advanced and extensively thought through grammar system, which makes Sanskrit perhaps the only known language, which strives for the unambiguity in both meaning and pronunciation – a feat which has not been matched by any other language in history.

A tribute and testament of the hard work and intellectual genius of Sage Panini.





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The Impact

While *Sage Panini* credits 10 of his predecessors and their respective works in his book, what he composed was so flawless, that today, Panini alone is remembered as the father figure of Sanskrit grammar.

Apart from the linguists mentioned earlier, his work also influenced the likes of *Edward Sapir*, *Paul Kiparsky*, *Noam Chomsky*^[5] ^[6] and path breaking computer scientists like *Peter Naur*, the co-creator of ALGOL-60 and *John Warner Backus*, the chief of the team that invented FORTRAN. Panini's work on Sanskrit grammar inspired these computer scientists to co-develop the famous Backus-Naur Form (BNF), a notation technique for context free grammar, often used to describe the syntax of a computer language.^[7] ^[8]

Today, Sage Panini is sometimes re-imagined as the patron saint of all geeks^[9], nerds and anyone else who pets a dream of rearranging the world.

He is also testament to the fact that the greatest Indian monuments, were actually conceived, designed and engineered in the mind.

Footnotes

[1] [A Companion to Translation Studies](#)

[2] [Linguistics - The 19th century](#)

[3] [Ashtadhyayi, Aṣṭādhyāyī, Ashtan-adhyayi: 4 definitions](#)

[4] [The Humanities in the World](#)

[5] [Noam Chomsky](#)

[6] [Traditional Knowledge in Modern India](#)

[7] <https://web.stanford.edu/~kiparsky/Papers/panini-1.pdf>

[8] [A Feat of Mathematical Eponymy](#)

[9] [Geek Sublime](#)