THE CODEX

Computer Science & Engineering
Fall 2014

RVR & JC
College of Engineering
(Autonomous)

About
Computer Science Department

The R.V.R. & J.C. College of Engineering introduced the undergraduate program in Computer Science & Engineering (CSE) in 1994. Since its inception, the department has grown exponentially in the areas of student intake, quality of academic work and student achievements. The initial student enrollment was 30. Since then, the B.Tech programme has seen a gradual increase in the student enrollment, and current annual intake stands at 180. Taking the needs of the academic institutions and the industry into cognizance, the department of CSE started M.Tech programme in the year 2003. The current annual intake for the M.Tech programme is 25. This programme helps to enhance the quality of the academic atmosphere in the department.A new training facility named E-class room was developed in the year 2009.The E-class room is one of the kind training facility capable of hosting 75 participants at a time and has one dedicated computer terminal for each participant.

The college and the department are well served by the central library. The central library has more than 5000 titles related to Computer Science and Engineering discipline. The central library has online subscription to various e-journals and INDEST (Indian National Digital Library in Engineering Science and Technology) consortium. The subscription provides online access to reputed engineering journals from professional societies like IEEE, ASME, ASCE, SPRINGER, ELSEVIER etc. There is also a dedicated department library to serve the needs of the department.

The department of CSE is justly proud of its high performing students. The students secured admissions in premier institutes across the country. A significant number of students are also pursuing their higher studies in renowned foreign universities. Students of this department are working in top MNC's like TCS, CTS, Infosys, Oracle, Accenture, IBM, Wipro, CISCO.

Vision
To produce globally competent engineers to cater the challenging computing needs of the society.

Mission
- To prepare graduates with sound knowledge of Computer Science and Engineering to solve real world problems.

- Adequate skills and behaviour to exhibit code of conduct in their professional practice

Program Educational Objectives

The graduates are prepared to
- Effectively apply mathematics, science, and engineering methodologies for analysis, design, and implementation of software solutions for real world problems.

- Explore breadth and depth of computer science to adapt emerging tools and technologies for rapidly changing computing needs of the society for employability or for pursuing higher studies.

- Demonstrate knowledge and understanding of professional responsibilities, and function in multi disciplinary environments to have successful professional career.

Program Outcomes

Program outcomes are narrower statements that describe what students are expected to know and be able to do upon the graduation.
- Engineering Knowledge
- Problem analysis
- Design/development of solutions
- Conduct Investigations of complex problems
- Modern tool usage
- The engineer and society
- Environment and sustainability
- Ethics
- Individual and team work
- Communication
- Project management and finance
- Life-long learning

Freshman Day

Fresher's day was celebrated in the month of august to induct our freshman officially. Immediately after the start of the academic year freshers start dreaming about Freshers day and seniors make their arrangements to give a warm welcome to the budding freshers

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The aim of the freshers day is to inculcate a friendly bond between the seniors and juniors.

The morning ceremony was celebrated at Open Air Theatre(OAT). The president of Nagarjuna Educational Society (Dr K.Basavapunniah) delivered his message to the students about the vision and mission of the college..

Mr. Ghazal Srinivas was invited as chief guest for the freshers day celebration..

The OAT was filled with the joy & screams of students. Ghazal srinivas impressed the audience with his Ghazal performance.

The Guest of Honour was Mr. Suneel Kumar(I.G) Guntur region. He asked the seniors to make a friendly bond with the freshman and to forget the word "Ragging".

The students were enthralled after participating in the freshers day.

The anti ragging committee in the college has been dedicated to ensure the discipline and stricly prohibits ragging in any form.

DBMS with big data

A guest lecture was organized on Database Management Systems With BIGDATA by Dr.Venkat Naidu Gudiwada Head & Prof Marshals University, USA for III/IV B.Tech (C.S.E).

Dr. Venkat introduced how the standard database management systems works when it comes to handling the large sets of data
The student's were given a brief idea on the novel technologies and methods that were recently introduced in the Database Management systems.

Python

A two day workshop on "python" was organized by swecha to train students on the new programming paradigms.

The scripting language has got its importance from the past few years for simplicity in the coding.

The importance of the open source software and communities was effectively explained to the students.

Database Information Systems & Oracle Application

A guest lecture was organized on Database Information Systems & Oracle Application by Sri K.PedaBabu, vice President, TechnicalManager, Bank of America,USA for IV/IV B.Tech (C.S.E).

Workshops

Real world software development

A 2 day workshop was organized on 10-12-2014 about "Real world Software development by Sri .Y.Aravindreddy, Sr.Director,Equifax,iknowate Technologies Inc.,USA for III/IV B.Tech(C.S.E).

The new agile methodologies adopted in the industry were introduced to students.
The students got an overview of the software technologies used in the industry."

.Net programming

The students were trained on the .Net programming from industry personnel to make them aware of current programming technologies used in the industry.

Hadoop technologies

There occurred a lot of changes in handling the data from the past few years. The data trends and technologies have been rapidly advanced.

A Guest lecture was organized on Hadoop Technology, Big Data Analytics by Sri K.Sambiah, Network Administaror Intitutive Technologies, Banglore for III/IV B.Tech(C.S.E).

The current trending "Hadoop Technologies" was very effective in managing big data. The department has always laid emphasis on making student's ready for the Industry.

Student Activities

Engineers' day

The Engineering Community across India celebrates Engineers Day on 15 September every year as a remarkable tribute to the greatest Indian Engineer Bharat Ratna Mokshagundam Visvesvaraya, popularly known as Sir MV. He is held in high regard as a pre-eminent engineer of India.

The Engineers'day was celebrated in the college to inspire the students for being the forthcoming engineers. The dignitaries reminded the imminent engineers of their responsibilities for achieving success and their contribution for the development of the country

On the eve of Engineers' day, A 2 day exhibition was organized in the college to bring out the innovative ideas and projects from the students. It provides a platform for students to acquaint about several new ideas.
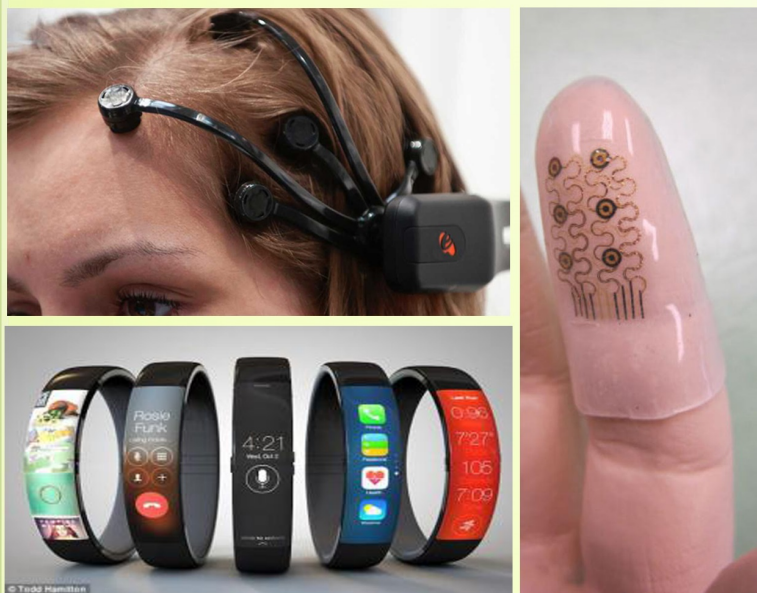

Sports

Education is beyond the four walls recognized by the students and showed their presence in Sports. Students develop leadership, determination, flexibility, respect , consideration, confidence, self-belief and finally exercise through sports.

- G.Novel Pradeep(Y11CS830) and S.Deepak(Y14CS830) won First prize in shuttle conducted by Officer's club.
- G.Noel Pradeep(Y11CS830) and K.Teja Raj(Y12CS955) won First prize in Tennis at Acharya Nagarjuna University Inter College Tournament.
- T.Ravindra Reddy(Y12CS952) and Y.Vinay Kumar(Y12CS979) have won First prize in volley ball at Adastra '15 conducted by Sree Nidhi Institute of Technology.
- P.V.S.Sathvik(Y10CS890) and E.Sai Sumanth(Y10CS897) have won First prize in Tennis competition conducted by P.N.C & Vijay College of Engg., Repudi.

Technical Advancements

Computer on a stick

Portable computers are nothing new. Every year, laptops, tablets, even smartphones get more powerful and more capable of handling most users daily computing needs. Still, two intriguing pieces of hardware released in 2015 took the entire hardware of a computer and squeezed it into a device slightly larger than a tube of lipstick, and for a fraction of a fraction of the price. Intel's Compute Stick and the Asus Chromebit both turn any HDMI enabled screen into a computer. Neither device will blow you away with specs, but they open a wealth of possibilities for small businesses, education and more.

Body-adapted Wearable Electronics

From Google Glass to the Fitbit wristband, wearable technology has generated significant attention over the past year, with most existing devices helping people to better understand their personal health and fitness by monitoring exercise, heart rate, sleep patterns, and so on. The sector is shifting beyond external wearables like wristbands or clip-on devices to "body-adapted" electronics that further push the ever-shifting boundary between humans and technology. The new generation of wearables is designed to adapt to the human body's shape at the place of deployment.

Inspiring us

Satya Narayana Nadella is an Indian American business executive. He is the current chief executive officer (CEO) of Microsoft. He was appointed as CEO on 4 February 2014, succeeding Steve Ballmer. Before becoming CEO of Microsoft, he was Executive Vice President of Microsoft's cloud and enterprise group, responsible for building and running the company's computing platforms, developer tools and cloud computing services.

Nadella was born in Hyderabad, India. He attained a bachelor's degree in electrical engineering from the Manipal Institute of Technology in 1988 Manipal, Karnataka.
Nadella subsequently traveled to the U.S. to study for an M.S. degree in computer science at the University of Wisconsin–Milwaukee, receiving his degree in 1990.

At Microsoft, Nadella has led major projects including the company's move to cloud computing and the development of one of the largest cloud infrastructures in the world. He has been credited for helping bring Microsoft's database, Windows Server and developer tools to its Azure cloud. The revenue from Cloud Services grew to $20.3 billion in June 2013 from $16.6 billion when he took over in 2011.

Nadella is an avid reader of American and Indian poetry. He also has an interest in cricket (his passion growing up), having played on his school team.

```python
#!/usr/local/bin/python
# change above line to point to local
# python executable
import urllib, urlparse, string, time
# create URL with desired search parameters
url = "http://archive.stsci.edu/pointings/search.php?"
url = url + "primary=ACS&outputformat=CSV"
url = url + "&pnt_ucountp=%3C5&pnt_icountp=%3E1&bao=and"
url = url + "&galactic=Above&galsearch=75"
url = url + "&action=Search+Exposures"
print url
filename = "out_py.txt"
urllib.urlretrieve(url,filename)
#!/usr/bin/env python
import getopt, sys, urllib, time
def main():
    status = 0
# input arguments
    try:
    opts, args = getopt.getopt(sys.argv[1:],"h:iq",
            ["help","invid=","quarter="])
    except getopt.GetoptError:
    usage()
    tree = False
    for o, a in opts:
    if o in ("-h", "--help"):
        usage()
    if o in ("-i", "--invid"):
        invid = str(a)
    if o in ("-q", "--quarter"):
        quarter = int(a)
    kepid, invid, kepmag, mode, start, stop, release = GetMetaData(invi
# convert Gregorian date to Julian date
def Greg2JD(year, month, day):
    if (month < 3):
    y = float(year) - 1.0
    m = float(month) + 12.0
    else:
    y = float(year)
    m = float(month)
    a = 0; b = 0
    if (y + m / 12 + float(day) / 365 > 1582.87166):
    a = int(y / 100)
    b = 2 - a + int(float(a / 4))
    c = 0
    if (y < 0.0):
    c = int(365.25 * y - 0.75)
    else:
    c = int(365.25 * y)
    d = int(30.6001 * (m + 1))
    jd = float(b + c + d + day + 1720994.5);

    return jd

# start and stop Julian dates for Kepler quarters

def QuarterDates(quarter):

    Qstart = [2454953.5,2454964.5,2454998.5]
    Qstop  = [2454962.5,2454997.5,2455100.5]
    if (quarter < len(Qstart)):
    return Qstart[quarter] - 10, Qstop[quarter] + 10
    else:
    message  = 'No spacecraft          str(qua
    message += 'Find                    asa.gov
    sys.exit(
```

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