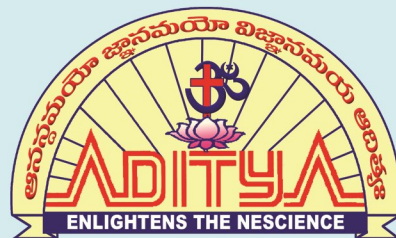


# Prospectus 2013-14

You must be the change  
You wish to see in the world

- Gandhiji



**ADITYA - SRI SAI ADITYA - SRI ADITYA  
ENGINEERING COLLEGES**

India's First  Microsoft Ed-vantage Platinum Campus

South India's First  Adobe Creative Technology Academy

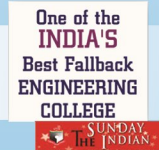
South India 6<sup>th</sup> Rank for Aditya – Survey by



AA<sup>+</sup> Grade for Aditya in India - Survey by



Aditya - One of the best fallback Engineering Colleges in India



Aditya stands 13<sup>th</sup> among 25 Engineering Colleges in India – An analytical survey by



4<sup>th</sup> position for Aditya in South India – Survey by



Aditya - One of the Top 10 Colleges in India



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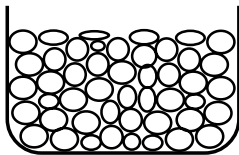
# Think differently.....



50 educational institutions  
5000 faculty  
50000 students.

It isn't possible to reach this staggering figure. But you can make it possible if you think differently.

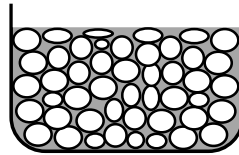
Pebbles



Is the tumbler full?

**Pebbles** : Education

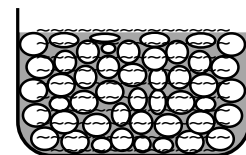
Pebbles + Sand



Is the tumbler full?

**Sand** : State - of - the - art  
infrastructural facilities

Pebbles + Sand + Water



Is the tumbler full?

**Water** : Wisdom

**Complete Education** : Pebbles + Sand + Water

Isn't that possible?

It is this **Complete Education** - our vision and mission - which made the impossible, possible. So take this from us - nothing is impossible if you think differently.

In this Saga of education, let us all think differently, make things possible and succeed in our endeavours.

Let's Go .....

Chairman  
Vice-Chairman  
Secretary

# Introduction

**ADITYA** Academy was established in the year 1984 for enriching the knowledge of budding youth with innovative methodology and to equip them with competitive skills to face the future challenges. It has made its beginning with a public school to cater to the prerequisite demands of primary and secondary education. In its process of widening the sphere Aditya started CBSE + 2 Course to meet the aspirations of the students spread across the country. As the journey progressed, Aditya Academy simply grew from strength to strength, thus spreading its wings to Junior Colleges, Degree Colleges, P.G. Colleges, Engineering and Pharmacy Colleges, Management, Nursing Colleges and Teacher Training Institutions.

A gamut of 50 educational institutions in different streams, with a faculty of 5,000 members and surging student strength of 50,000 stands testimony to the pillaring effect Aditya Academy has had on the society in the past three decades.

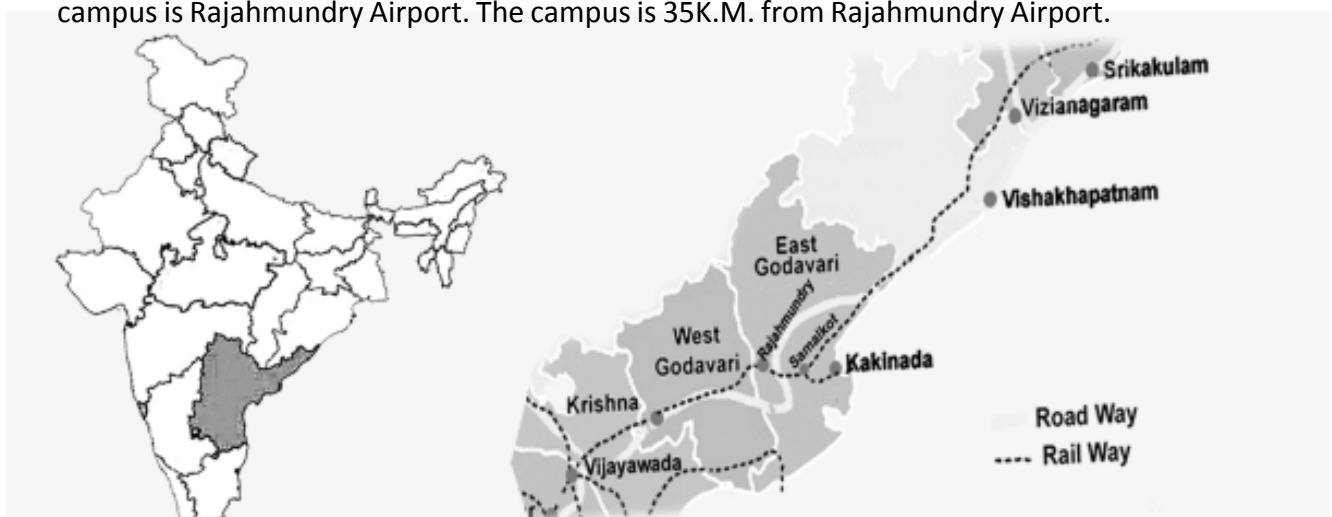
## Engineering Colleges

**Aditya Engineering College** was established in the year 2001, at Surampalem. The success of Aditya Engineering College multiplied multi-fold as it cascaded into two more engineering colleges, which are the **Sri Sai Aditya Institute of Science and Technology**, set up in the year 2004 and **Sri Aditya Engineering College**, set up in the year in 2008, to cater to the growing and aspiring student fraternity.

The Engineering Colleges Campus is seren, peaceful and tranquil. It is a spacious campus of 180 acres in thick man grown forestation. The affable ambience encourages and instills in students positive vibes which reflect in their mindsets and attitude.

## Location of the Campus

The campus is located at Surampalem, East Godavari District of Andhra Pradesh equidistant from Rajahmundry and Kakinada, the two major cities of the District. The nearest airport to the campus is Rajahmundry Airport. The campus is 35K.M. from Rajahmundry Airport.





### **Admission Procedure**

We follow a standard admission process wherein candidates who have passed 10+2 with Physics & Mathematics as major subjects and with minimum 50% of marks are eligible to apply. A student can be admitted in two ways i.e. either convener quota or management quota. Out of all the seats, 70% of the seats are filled under convener quota through counseling and selection will be on the basis of marks obtained in EAMCET (Engg, Agriculture & Medical Common Entrance Test). The remaining 30% seats are filled under management quota with 1st class students.

### **EDCIL: Educational Consultants Limited**

Educational Consultant India Limited (EDCIL) the only Government authorized agency to make admissions of Foreign Students from Countries like Nepal, Srilanka, Afghanistan, Bangladesh and other African Countries has entered into an agreement with Aditya for admitting Foreign students. For students admitted under the scheme, the Govt. of India will bear the expenses for their study.

### **PIO: Persons of Indian Origin**

PIO Status is given by AICTE for admitting Foreign students in Indian Technical Institutions. Our Aditya Engineering College is one of the 5 Engineering Colleges affiliated to JNTU Possessing the PIO Status.

### **Dual Degree Program**

A Student's dream of getting an M.S. Degree from an American University can be fulfilled, when he gets an admission in B.Tech in Aditya Engineering Colleges. For obtaining a P.G. Degree in an American University the student has to continue his study for 2 years spending a huge amount. But by joining in this Dual Degree Course he can also get the M.S. Degree from the University of IOWA USA (UI) within a period of one year minimizing the expenditure. Students can acquire dual degree of B.Tech (4 years study) at Aditya and MCS (only one year study) at University of IOWA, USA.

**Drawing subjects :**

For the subject having design and / or drawing, (such as Engineering Drawing, Machine Drawing), the distribution shall be 30 marks for internal evaluation and 70 marks for end semester examination. There shall be two internal tests in a Semester and the best of the two shall be considered for the award of marks for internal tests.

- ✓ Out of 30 internal marks, the marks shall be awarded as follows:
  - Day to day work 20
  - 10 marks to be awarded by conducting an internal mid examination.
- ✓ The Pattern of External Examination Shall be similar to theory examination.

**SUBJECTS - BRANCH WISE FOR I B.TECH - R13 REGULATION****I Year – I SEMESTER**

S. No.	Subject	CIV	ME	CSE	IT	PT	EEE	ECE
1	English – I	✓	✓	✓	✓	✓	✓	✓
2	Mathematics - I	✓	✓	✓	✓	✓	✓	✓
3	Engineering Chemistry	✓	✓	✓	✓	✓		
4	Engineering Mechanics	✓	✓	✓	✓	✓		
5	Environmental Studies	✓	✓	✓	✓	✓		
6	Computer Programming	✓	✓	✓	✓	✓		
7	Engineering Chemistry Laboratory	✓	✓	✓	✓	✓		
8	English – Communication Skills Lab - I	✓	✓	✓	✓	✓	✓	✓
9	C Programming Lab	✓	✓	✓	✓	✓		
10	Mathematics - II						✓	
11	Engineering Physics						✓	✓
12	Ethical & Moral Sciences						✓	✓
13	Engineering Drawing						✓	✓
14	Engineering Physics Laboratory						✓	✓
15	Engineering Workshop & IT Workshop						✓	✓
16	Mathematical Methods						✓	✓

**I Year – II SEMESTER**

S. No.	Subject	CIV	ME	CSE	IT	PT	EEE	ECE
1	English - II	✓	✓	✓	✓	✓	✓	✓
2	Mathematics - II	✓	✓	✓	✓	✓		✓
3	Basic Electrical and Electronics Engineering	✓						
4	Engineering Physics	✓	✓	✓	✓	✓		
5	Ethical & Moral Sciences	✓	✓	✓	✓	✓		
6	Engineering Drawing	✓	✓	✓	✓	✓		
7	English-Communication Skills Lab - II	✓	✓	✓	✓	✓	✓	✓
8	Engineering Physics Laboratory	✓	✓	✓	✓	✓		
9	Engineering Workshop & IT Workshop	✓	✓	✓	✓	✓		
10	Mathematics - III					✓	✓	
11	Engineering Chemistry						✓	✓
12	Engineering Mechanics						✓	✓
13	Electrical Circuit Analysis - I						✓	
14	Computer Programming						✓	✓
15	Engineering Chemistry Laboratory						✓	✓
16	C Programming Lab						✓	
17	Mathematical Methods		✓	✓	✓			
18	Network Analysis							✓
19	Computer Programming Lab							✓

# Hostels

## Homely and Comfortable

Aditya hostels are regarded as "home away from home" and what they offer beyond cozy accommodation include personal care, emotional touch and individual grooming. Aditya has left no stone unturned in promoting comfort, harmony and dignity of students in their living spaces and spared no pains to make the surroundings fresh and green.

Maintained in aesthetically designed and well-ventilated multi-storied buildings right in the lap of Aditya Group of Engineering and Pharmacy Colleges' campuses, the boys hostel has spacious rooms with marble flooring, attached baths and hot water facility. Separate Hostel for Girls with the same parameters is located at Kakinada, keeping in view their safety and security and a fleet of buses is being maintained for their smooth commutation to College and Vice-versa.

Similarly, taking a more pragmatic look at the tastes and food preferences of students hailing from the North Indian States like West Bengal, Bihar, Jharkhand, Chhattisgarh and North Eastern States etc., a separate menu which suites their tastes is served and wardens with multi-language skills bridge their communication problems.

Competent team of faculty will always be available in the Hostel to clarify the doubts of the students in study hours.

## Hostel Rules & Regulations

All students must abide by the rules and regulations of the hostel as may be framed from time to time. Violation of any of the rules will attract disciplinary action.

- ☞ Providing hostel is a facility to the students, which can be withdrawn at any time. Continuance of this facility is squarely subject to the satisfactory conduct and behavior of the inmate(s) concerned, where discipline, decency & decorum and etiquette are maintained.
- ☞ Every student of the hostel should have the civic responsibility that he or she should not be a cause of inconvenience, annoyance or disturbance to others.
- ☞ Students shall have to maintain cleanliness of their rooms and the hostel premises along with due upkeep of all the fittings and facilities provided to them in the rooms as well as in the hostels & Dining Halls.
- ☞ Neatly folded bed sheet should be kept on the Bed. Pasting of posters, writings, wall chalking, slogans of any kind or defacing the hostel in any form is not allowed. If any student violates this heavy penalty will be imposed.
- ☞ Food from the dining hall should not be taken to the rooms. Cooked food from out side is not allowed in the hostel. However baked food & soft drinks in pet bottles are allowed.

# Central Libraries

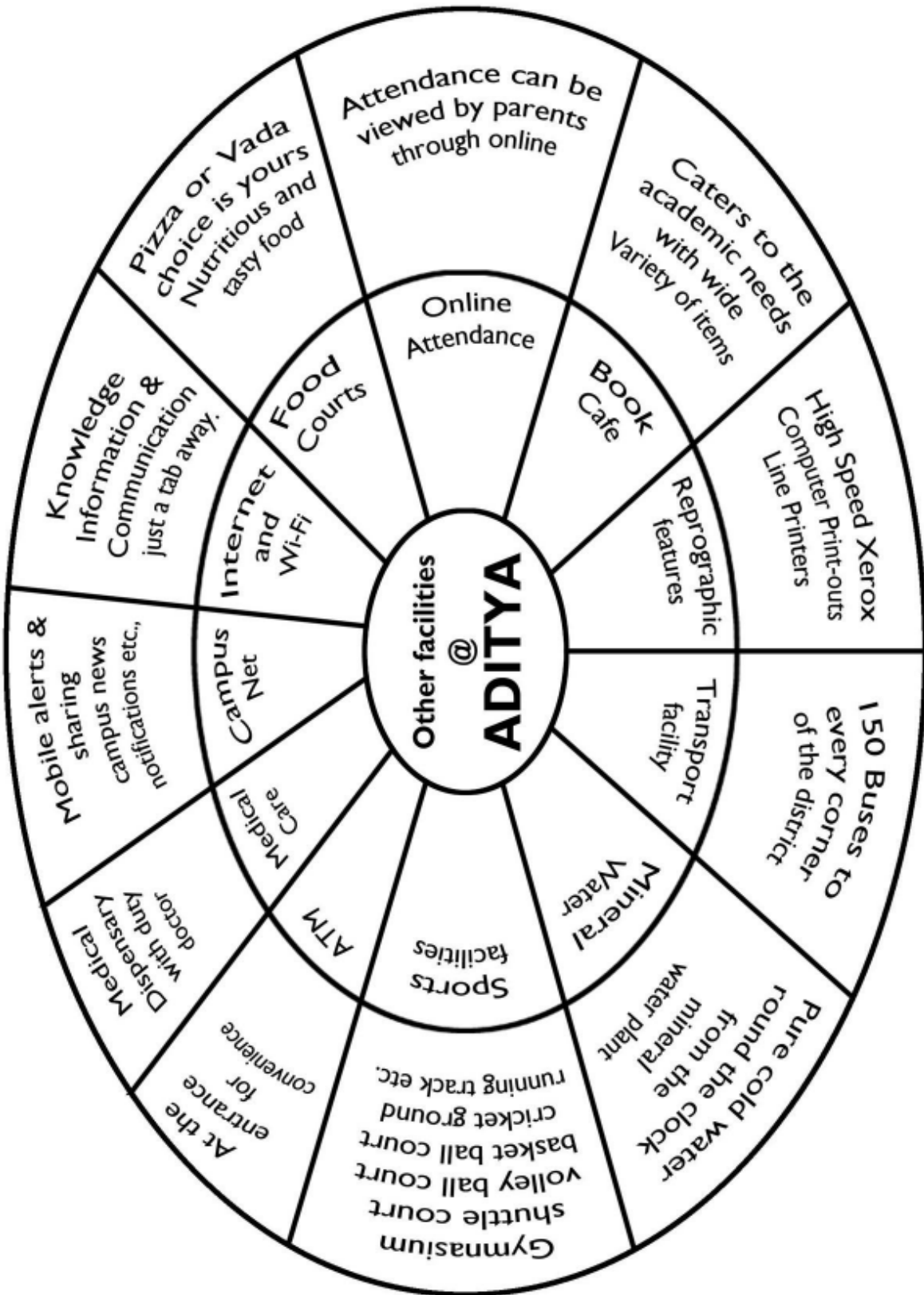
The major objective of the central libraries of the Engineering Campus is to provide right information / knowledge to the right users at the right time. The Libraries are spacious, well-lit and modern with an excellent ambience. The Libraries hold a hybrid collection of printed as well as electronic resources which include books, journals, databases, audio-visuais, CD's, DVD's, e-books, e-journals, project reports, course materials, back volumes, old question papers, conference proceedings etc. Currently each of the libraries has above 1,00,000 volumes with 7,500 titles in all the disciplines and has National and International journals. The libraries are fully automated and all the books are bar coded. They have Online Public Access Catalogue (OPAC) through which user can search library material availability from his desk top within the campus. The libraries provide Reprographic, print out and scanning facilities to their users.

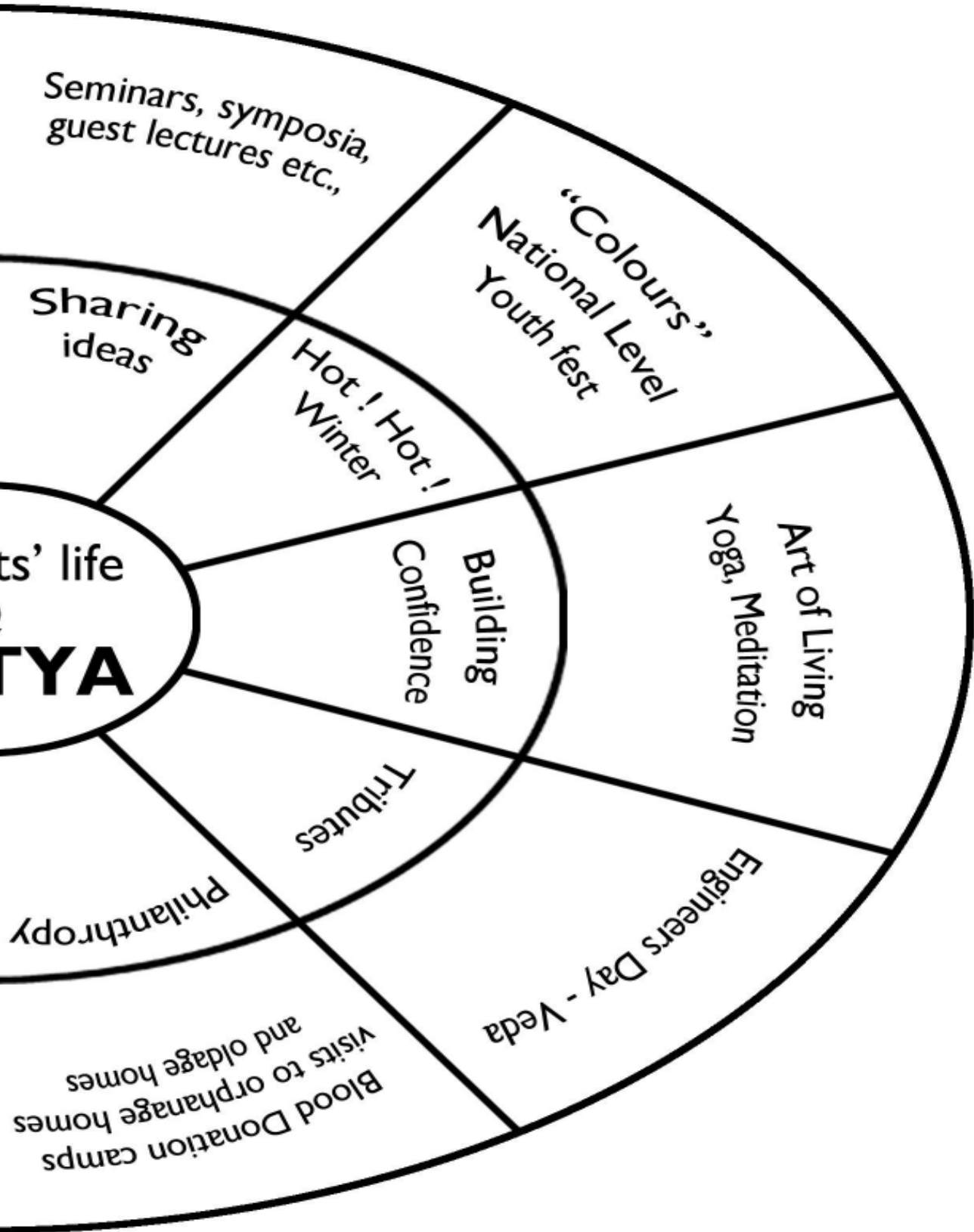
**Digital Library:** A Digital Library functions within the Central libraries with an excellent collection of electronic material. It provides 4500 video lectures by eminent professors of IIT's and Foreign Universities through Unified Library Server. It also contains innumerable electronic material like e-books, back volumes of e-journals, PPT's, project reports etc. and also has institutional membership of DELNET.

**E-Journals:** Besides 250 National and International print journals the libraries subscribe electronic journals viz. IEEE, ASME, SpringerLink, Infotrac Engineering Collection and Infotrac Management collection to meet the needs of students, faculty and research scholars.



# Other Facilities





**Faculty:**

The Department has qualified and experienced faculty. They also provide an open platform for learning to the students, by clarifying their doubts regularly.

**Laboratory Facilities:**

Laboratory Facilities are the major source of inspiration in pursuing Engineering, as there is ample source of practical exposure in the Laboratories. The students are having exemplary lab facilities with heavy investment which are generally and rarely available and the lab equipment like Total Station, Universal Testing Machine, Tri-axial Testing Machine, CBR Apparatus, Shear Box Apparatus helps the students to have a wide industrial exposure.

The Laboratories are so established that any student interested in doing research has a good platform for experimentation. The students are well trained for GATE examination from the third year of the course for facilitating them to prosecute their PG study i.e. M. Tech.

We have established the following Laboratories for the benefit of our students:

- Computer Aided Engineering Drawing
- Strength of Materials
- Concrete Technology Lab
- Engineering Geology
- Building Planning & Drawing
- GIS/CAD Lab
- Construction & High Way Engineering Lab
- Geo Technical Engineering Lab
- Geology Lab
- FM & HM Lab
- Surveying Lab

## Laboratories & Facilities

Automation, experimentation & hardware projects are integrated into curriculum with well equipped laboratories with latest equipment like Schrage motor, cascade transformers etc and technical software MATLAB & P-Spice.

## Career Scope

Every student in summer should undergo internship training in various power plants like Reliance, GMR, GVK, VTPS, and also in various Power Grid Stations. Electrical engineers are involved in channeling energy and electrical current to use for humanity such as heating, lighting, home appliances, transportation, and communication. Student chapters enable peer learning through the conduct of Various programmes like technical quiz, conferences, symposiums etc. Training in soft skills and Aptitude skills will be separately given. Eminent persons from industry, research organization and universities are invited to give a talk on the recent developments in the industry and research.

## Club

The Club comprises of a students' association working under the guidance of the senior faculty, where several social service programmes like seminars, Job information, co-curricular extra curricular competitions are organized. They also arrange several industrial visits and tours. A website is also maintained by the association to upload the important events.

Our students can reap the benefits of the following Laboratories:

- Electrical Machines Lab
- Power Electronics Lab
- Control Systems Lab
- Measurement Labs and Circuit Lab
- Simulation Lab
- Electric System Lab
- Electrical Technology Lab

## Careers

The department is organizing internship program for the students in every summer with the coordination of eminent industries like SRMT, RAK Ceramics, Sri Ramdas Paper Board Ltd., Bhavani Casting Ltd etc. As a part of Main project, students executed very useful projects such as Solar Powered Wheel Chair, LPG Bike, Reaping Machine etc.,

The department is continuing its services through its workshop in manufacturing various infrastructural needs of the college i.e., drawing tables & stools, Glow sign boards and many more.

Our students can enrich their technical knowledge by experimenting in the following Labs:

- Thermal Engineering Lab
- Machine Tools Lab
- Fluid Mechanics & Hydraulic Machines Lab
- Instrumentation & Control Systems Lab
- Mechanical Engineering Workshop
- Production Technology Lab
- Heat Transfer Lab
- CAD Lab
- Metrology Lab
- Metallurgy Lab
- Mechanics of Solids

## Activities and achievements

The students and faculty actively participate in national /international conferences / workshops organized at various other engineering colleges.

The department of ECE conducted a national conference on "signal and image processing" (NCSIP-2012).

As a part of main project, students executed very useful projects such as GSM Based SMS Notice Board, Image Based Password Authentication, Voice Operated Intelligent Lift etc..

## Careers

The department organizes internship program for the students in every summer with the co-ordination of eminent industries like Andhra Electronics, Effetronics, Steel Plant etc. The students can build a career in mobile / wireless communication networks / embedded systems/ VLSI /and communication devices development. Students can also find opportunities in IT sector.

The department has the following Laboratories :

- Digital Electronics
- Micro Processors
- VHDL Modelling
- Embedded Systems
- Mixed Signals
- Integrated Circuits & Applications
- Pulse and Digital Circuits & EC Lab
- Microwave & Optical Communications
- Analog Communications
- Digital Communications
- Electronic Devices & Circuits

## Ongoing Research & Development

- Key Distribution over Wireless Sensor Networks
- A Novel Approach for Intrusion Detection using Swarm Intelligence Algorithms
- Voice over Internet Protocol (VoIP) Performance Analysis, QoS measures to minimize Packet Loss, and Identifying link failures during Transmission
- Fuzzy Logic-Retrieval Data from Database.
- Soft Computing Approach for Software Development Effort Estimation.

## Industrial Orientation

The Department is accredited with TCS. It has internship with Tech Mahindra, InfoTech, ALDATA Solutions, and Miracle Software Solution and also with STPI. The department has conducted programs like "Mission 10X" by WIPRO, Spark Program for students & Faculty Enablement program for faculty by Infosys, arranged for Industrial Visits to facilitate students to learn the latest technologies and make them Experts in IT.

## The students can have rigorous training in the following Laboratories:

- Data Structures Lab
- Professional Communication Skills
- Operating Systems/ Compiler Design Lab
- Network Programming Lab
- Object Oriented Programming Lab
- OOAD Lab
- Web Technologies Lab
- ADS Lab
- DBMS Lab
- Advanced Unix Lab

## Petroleum Technology (PT)



Andhra Pradesh is well known for its Petroleum resources as one of the biggest petroliferous basin of the world known as KG basin which endows the state. The basin expands all along the coast of AP in the east coast of India, and lies merely 30km from ADITYA. Taking this advantage of being in the vicinity of major oil and gas players within KG basin, ADITYA stands first to introduce B.Tech in Petroleum Technology in the state, actively fed by the experts around us in KG basin and across.

### Visiting Faculty:

To get us updated in curriculum in accordance to industry demands we have a queue of visiting faculties from RIL, GSPC, ONGC, IOCL, INTERTEK etc. other than the bench of qualified and skilled regular faculty in the school.

### Career Opportunities:

An Engineering Degree in Petroleum offers an exhaustive absorption of graduates as Drilling Engineers, Reservoir Engineers, Completion Engineers, Production Engineers, Process and Design Engineers, in addition to the basic engineering professions like Geo-Engineers, Acquisition-Engineers, and Field Engineers etc.

### Industrial Links:

Our Industrial links include RIL, CAIRN ENERGY, GSPC, HERAMAC, HOEC, Videocon, Hardy oil etc.

### Labs :

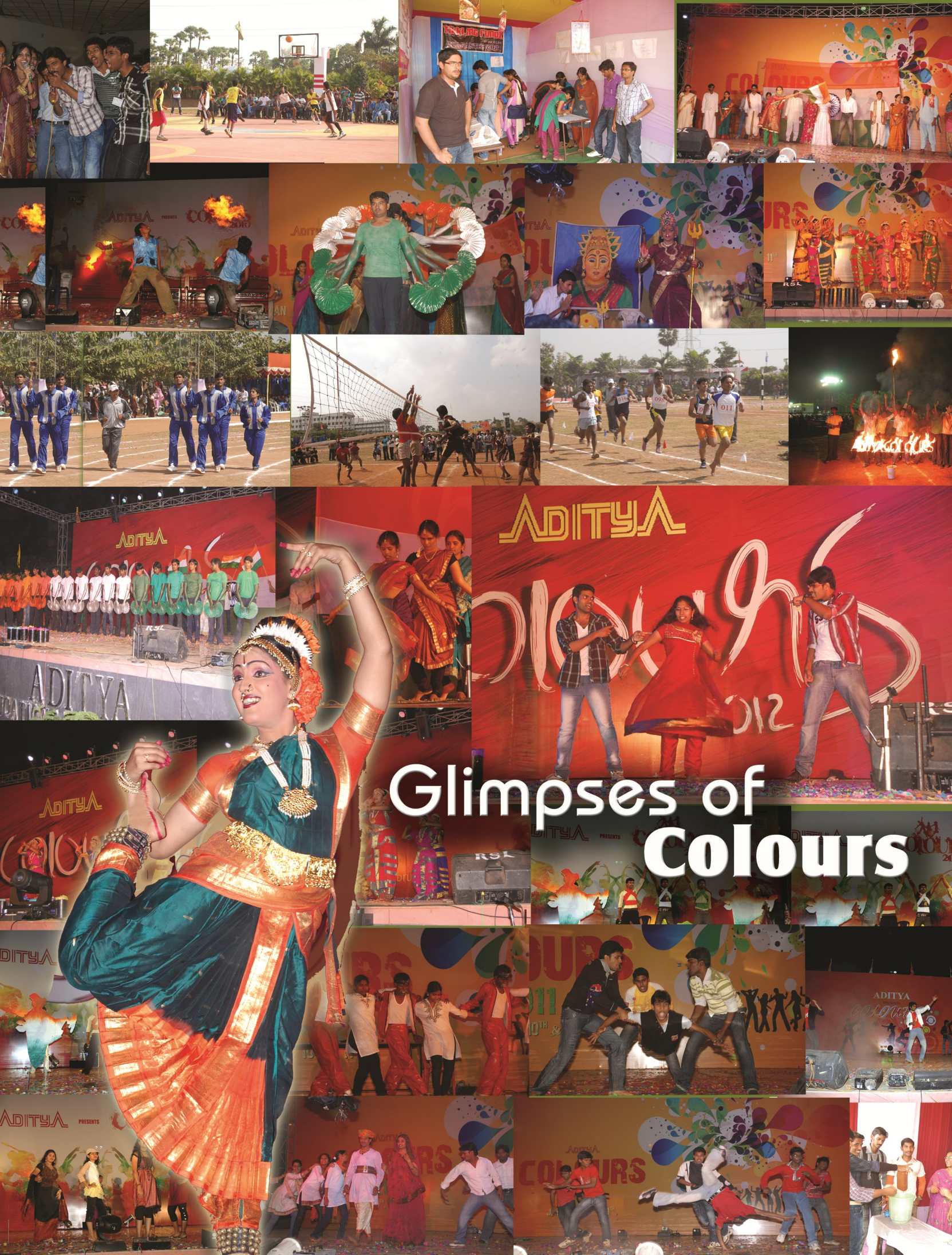
- Geology Lab
- Surveying Lab
- Basic Engineering Lab
- Momentum Transfer Lab
- Process Heat Transfer Lab
- Petroleum Analysis Lab
- Instrumentation & Process Control Lab
- Drilling Fluids Lab
- Drilling Simulation Lab

- ☞ Semester fee must be paid within 7 days starting from the commencement of the session
- ☞ Any student found indulging in malpractice in the tests either internal or external would be debarred for the rest of the tests / exams. Any case of malpractice in the university examination will be reported to the university.
- ☞ Ragging and eve-teasing on the college campus and hostel premises are banned as per the order of Govt of A.P. Indulging in ragging and eve-teasing will attract punishment as stipulated by the Govt of A.P.
- ☞ Smoking or other forms of consumption of tobacco is not permitted inside the campus. Students should not carry cell phones; if found, it will be confiscated.
- ☞ The student who has been found guilty of some major offence may not be recommended by the college for the award of Degree even if all academic requirements have been satisfactorily completed.

In respect of a student involved in violation of any of the rules and regulations of the college, depending on the nature and gravity of the breach of discipline committed by him/her, the Board of Discipline constituted for the purpose shall have the power to withdraw any concession offered to the student & impose punishment as follows:

- Impose of fine
- Suspension from attending classes
- Expulsion from the college.





# Glimpses of Colours



# Excellence in Every Dimension

- A huge campus situated in 180 Acres
- Green zone with zero percent pollution
- Concentrated effort in the learning process
- Periodical feedback from the students
- Wi-Fi Campus
- Gym
- E-classrooms
- Project Clubs
- A.C. seminar halls.
- Open Air Theatre



**ADITYA**  
**ENGINEERING COLLEGES**



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[www.youtube.com/adityasurampalem](http://www.youtube.com/adityasurampalem)