

INGRAHAM POLYTECHNIC

INGRAHAM INSTITUTE



TECHNICA
The e-magazine
2022-2023

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About the Polytechnic :-

The Ingraham Institute at Ghaziabad was established in the year 1926 by Mrs. Ingraham in memory of her husband Dr. Robert Seney Ingraham with the sole vision and commitment to uplift the under privileged and the village folks. An endowment was further made by his sister Ms. Francis T. Ingraham towards the development of extension program for the rural masses and community of adjoining cities and rural areas of Ghaziabad.

Ingraham Polytechnic is one of the core units under the umbrella of Ingraham institute. It was established on 15th JULY 2006, under the aegis of “Board of Technical Education UP Lucknow” The first batch of admissions were given by the Council of “Joint Entrance Examinations UP Lucknow”, the polytechnic took to wings with two courses of two years duration each vis-à-vis Modern Office Management And Secretarial Practice and Post Graduate Diploma In Computer Applications.


This is a co-educational polytechnic with a lush green pleasant environment full of flora and chirping of birds. The polytechnic saw another phase of development when an application for further enhancement of courses was filed, and by God's grace, we were allotted two “Three Years Diploma Engineering” courses in july 2008 as “Computer Science & Engg.” and “Information Technology”.

In coming years, the courses also get approved from ALL INDIA COUNCIL OF TECHNICAL EDUCATION DELHI. In 2019, Polytechnic expanded its wings further and got two more courses, Two years Diploma in Library and Information Science and one year Diploma in Computer Hardware and Networking along with closure of P.G Diploma in Computer Application.





EDITORIAL BOARD

1. Mrs. Komal Sharma **Chief Editor**
 2. Mr. J.N Upadhyay **Editor**
 3. Mr. Brijpal Sharma **Sub-Editor**
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 9. Mr. Shivam Kawatra **CS & ENGG. (2nd Year)**
 10. Miss. Mahi Gaur **IT (Final Year)**
- 



OUR VISION


“To provide and develop the technical skill within the person through mind, body and spirit.”

OUR MISSION

1. To spread technical knowledge and make technically skilled youth of the country.
2. Seeking the imagination, lifelong learning and encourage technical services to human being.
3. To foster students learning in respect of organizational modules covering the areas of management, Finance, Communication, Personality Development, Human Resource and Legal aspects.

OUR OBJECTIVE

We have very specific and particular objectives for the technical education that we offer under the Polytechnic Diploma-

- To raise the standard of technical education and make it more useful according to the needs of the society & industries.
 - To develop technical education in a planned and coordinated manner with a view of modernization of industries, new software technologies and increasing computerization and to put emphasis on quality rather than quantity.
 - To work as resource agency for supplying technical manpower to organized industrial sector and small scale sectors.
 - To develop necessary inputs and facilitate to increase the involvement of both men and women in the field of technical education.
 - To develop skill of handling managerial responsibilities in diversified sectors covering Human, Finance and other organizational resources.
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DIRECTOR'S MESSAGE

I am pleased to know that Ingraham Polytechnic is releasing its 1st Technica magazine. Good to see that Ingraham Institute Polytechnic is endeavoring to keep pace with the new technologies emerging in our country.

As a technocrat, our endeavour should be to help, shape and bring out the best from our students on way to become a useful and productive technical hand. Our efforts should be to ensure that during the learning process of our students they are not only be confined to gain their technical degrees but also to uplift their physical, mental, emotional and spiritual facilities to build their character and personality. I am sure, our qualified and learned faculties are committed to impart outcome based training to all including those who are under-privileged and deprived of their legitimate right to receive proper tech. education, irrespective of their caste, creed and colour.

I am confident that our Polytechnic is capable to impart and provide appropriate technical training to all those who are keen to contribute towards the building of our great nation, so that one day India becoming not only digital, but a leading technical nation of this world.

I congratulate all the staff and students who contributed to make the magazine a success. All this could be possible only because of the hard work, dedication and involvement of staff and students which I appreciate. I wish that all staff and students will continue to do their best to take this institute to new acceptable heights in the field of technology.

With all the good wishes and best of achievement.



WG. CDR. P. Jethro
Director



FROM THE DESK OF PRINCIPAL

It is great pleasure and honour for me in releasing the first edition of the e-magazine of Ingraham Polytechnic. It is the first time the magazine is published digitally. That not only save the paper but also cost of the magazine. A magazine is the mirror of the technical, cultural and professional development of the institute. If one go through it, will find the messages through various articles will lead to the success to students and individual in professional and social life.



Dr. Pankaj Sharma
Principal

I am very grateful to our Director WING CDR.P.JETHRO who gave inspiration for the publication of the magazine. I thank the members of editorial board who worked hard for its timely publication. I also thank student who get motivated and thought of writing the articles. A word of thank is also to the Ingraham Institute administration who timely helped in all our needs.

I hope that the magazine serve its purpose to everyone. The success of the e-magazine will inspire the staff and students of this institute in future.

ASSOCIATION WITH INDUSTRIES :-

The institute signed five MOUs to collaborate various activities like, Industrial, Training, Entrepreneurship development, Technology Transfer and other mutual cooperation.

1. **Civic conclave Technologies Pvt. Ltd.**
B-6, Block B, NOIDA, Sect-4, U.P
2. **Adhiraj Information Technologies Pvt. Ltd.**
B-6 Block B, NOIDA, Sect-4, U.P
3. **Geomat Solutions.**
932, Eternia Mahagun Mascots, Crossing Republic, Ghaziabad.
4. **Apple Tree Infotech**
D-39, RD Palace, RDC, Ghaziabad.
5. **Arbhinfotech**
Building No.1, Golf Live Opposite CNG Petroleum, Garh Road, Meerut.
6. **KL oudrac**
7. **Wrocus Technologies**
D-76 Block D, NODIA, Sect-63, U.P

PLACEMENT PARTNERS :-

1. Simplex Engineering (India) Pvt. Ltd. NOIDA.
2. KW – Infratech, New Delhi.
3. Alpine Infosoft Technologies, Noida.
4. Tech – Mahindra, Noida.
5. Bharat Electronic (BEL) Sahibabad Ghaziabad.
6. Lifeline Technocrates (P) Limited, Ghaziabad.
7. Vertex Group of Companies, Noida.
8. Chetak Enterprises, Hapur.
9. Renovision Automation Services Pvt. Ltd. Delhi.
10. NSEZ, Cyient Limited.



CHOOSING A CAREER :-

During my long attachment with technical education. I observed most of the students joining the institute without any aim. Several questions are wondering in their minds. Why they joined and what will do after completing it? Most of the students even study uninterestingly. They study only to pass the examination and getting certificates. This is the reason after completing the course; they stand with a confused mind about their future.

If one go deep into this problem in choosing the suitable career is not actually in the hand of a child. They are guided and pushed towards a particular field by parents in our society. It's the parents who decide what their child will become. Usual choices are Doctor, Engineer, government servant etc. As the child grows, he shows excellence in many areas like music, sports, and other inherent talent. But after passing 10th standard, they are taken to school, college or institution where the parents want.

I feel it is the parents not the children need consultancy about the selection of right area according to the talent of the child. The parents should keep vigilant eye on their children's activities and try to provide required training or coaching in their area of interest, before admitting then to a particular institution. Then only he will excel and grow willingly.

Schools has their share of responsibility also. It is the teacher who can find the inherent talent of a student. He should promote him as per his ability and consult him to choose career in his area of interest. I feel every school should run career guidance programs after 8th standard regularly.

Thus a combined effort of parents and teachers can guide a child to obtain education and make career in his area of interest. So that he become asset to the family, society and country.

Mrs. Komal Sharma
Training & Placement Officer



TECHNOLOGY :

Technology has made our life so easy and has given us so many facilities, which we could never have imagined before. At the same time technology has not only improved the standard of living of human being but has brought revolutionary changes in the field of development of country all over the world.

On the other hand, if the rate of development of any country is slow, it means that the Technology of that country is quite backward. Due to technology, social system of backward Industrial Economies also helps in improvement.

Today, with the help of Technology and science, a person can measure the depths of the sea to the Height of the sky not only this, Technology have made the reach of man to space.

Technology has helped doctors answer all patient queries faster. There are various Technological innovations in the health sector, such as the invention of certain drugs, biotechnology.

The Technologies of medical devices have made it possible to detect many diseases and have facilitated their treatment.

Technology has helped in Domestic work. Electric power provides light to people's homes and roads; it is used to power electrical tools, factories etc.

There are many modern tools that made it easier for people, such as a vacuum cleaner, microwave, washing machine etc. “Technology is when we take the concept of science and transform them into gadgets and devices that are useful to us” when we look around us, almost everything is a result of or a form of technology.

Miss. Mahi Gaur
I.T (Final)





IOT:

With the current technological advancements, Internet of Things (IoT) technology currently is in its golden age, transforming various industries by storing and processing data in a distributed manner and making enhanced productivity.

IoT is a complex ecosystem of interconnected devices that can communicate with each other. These smart connected devices are able to gather, share, and analyze information and take actions accordingly.

Research shows that there will be 35 billion smart devices online by 2021 and in the future of IoT this number will raise to 75 billion by 2025. So, it is safe to say that IoT is growing at an enormous rate.

The emerging trends in IoT are majorly driven by technologies like artificial intelligence, blockchain, 5G, edge AI, and edge computing. This interconnected web of technological advances lies in the business value of IoT applications like smart wearables, smart homes and buildings, smart cities, autonomous cars, smart factories, location trackers, wireless sensors and much more.

We cannot deny the fact that the future of IoT will be smart, secure, reliable and career-oriented for next generation.

Mr. J. N. Upadhyay
HOD-CSE/IT



CLOUD STORAGE :

Cloud storage is a cloud computing model that enables storing data and files on the internet through a cloud computing provider that you access either through the public internet or a dedicated private network connection.

Pros and Cons of Cloud Storage Back

Advantage #1: Disaster Recovery (DR)

Advantage #2: Access your data anywhere

Advantage #3: Low cost

Advantage #4: Scalability

Advantage #5: Security

Disadvantage #1: Lack of total control

Disadvantage #2: Difficult to migrate

Disadvantage #3: Requires Internet

We can upload data of our school in cloud server so this is very useful. Cloud infrastructure operated solely for a single organization, whether managed internally or by a third party, and hosted either internally or externally. Undertaking a private cloud project requires significant engagement to virtualize the business environment, and requires the organization to reevaluate decisions about existing resources. It can improve business, but every step in the project raises security issues that must be addressed to prevent serious vulnerabilities. Self-run are generally capital intensive. They have a significant physical footprint, requiring allocations of space, hardware, and environmental controls.

These assets have to be refreshed periodically, resulting in additional capital expenditures. They have attracted criticism because users still have to buy, build, and manage them and thus do not benefit from less hands-on management, essentially the economic model that makes cloud computing such an intriguing concept.

Mr. Dhiraj Sahu
Sr. Lecturer



HEALTHY LIFE :

Health is wealth is an old saying but has its importance always in all stages of life. It has been observed that the youths are not following this rule. Even the increase in gym culture could not prevent the deteriorating health and untimely deaths. This is due to the poor climatic conditions, irregular life style and bad food habits.

Everybody has many types of tensions and also age related issues also. To keep the body perfectly fit and tension free is not on rest. One has to pay to exist in this world. Irrespective of age one can live a reasonably peaceful and healthy life with self confidence.

Take time off from busy and active life, one should follow the rules given below and make it a habit to be healthy.

1. Walking is one of the best exercise.
2. Chant daily at frequent interval.
3. Being less, active with mobile phones & tech. savvy consumption.
4. Breathing exercise help to balance the vital energy and to keep free from ailments.
5. Meditation is a technique for growth of mind.
6. The body language also matter to feel healthy, how one speaks, make a great difference in our relationship. Speak gently, polite and careful about language used.
7. Take time to set in stillness, listen to your inner self, and meditate care for mental peace.

In a annoying, and confusing mental state in life, just close the eyes, take a deep breath and say, “God I know it is your plan, just help me through it”.

Mr. Brijpal
Lecturer

GLOBAL WARMING :

Global warming is a global problem causing concern to all knowledgeable population. Lot of conferences seminars and discussions are on to check burning problem. Even it is found that a large number of people are neither aware nor concerned about it. Although effects of global warming can be seen in every part of the world. Mountain fire, rise in water level and sudden climatic changes are few example. Now time has come to understand its causes and methods for preventing it most important up to now 'Save World.'

When the lowermost layer of the atmosphere, absorbs heat from natural process then the temperature of earth's surface starts increasing. The increase in the temperature of the earth is called 'Green House Effect'. Sea level is increasing because of melting glaciers due to global warming.

The effects of Global Warming are as follows:

- 1. Increase in Temperature:** The main causes of global warming is the increase of gases like Carbon dioxide (CO_2), Carbon Mono-oxide (CO), Methane (CH_4) and Chloro-fluro Carbon (CFC) etc. That causes increase in atmospheric temperature.
- 2. Effect on human population:** Global warming adversely affects human health. Due to increase in temperature, various types of serious diseases like malaria, dengue, and typhoid are common now days. Ultra violate rays directly enter the earth's environment which cause skin diseases.
- 3. Loss of natural habitat and ecosystem:** Natural calamities due to global warming cause a heavy loss to plants and wildlife. Aquatic animals are greatly affected due to change in temperature of the seas.

Methods to protect Global Warming: Global warming is really a serious problem. Some steps should be taken to prevent it.

- i. Use the sources producing carbon gases less as these increases temperature because industries, automobiles and engines still using petrol and diesel and coal as fuels.
- ii. People should take part seriously in movements like 'Chipko Movement'; 'Appiko Movement' to prevent deforestation.
- iii. Another important aspect is to plant more and more trees to decrease the impact of global warming gases.
- iv. Solid waste materials should be disposed off properly .



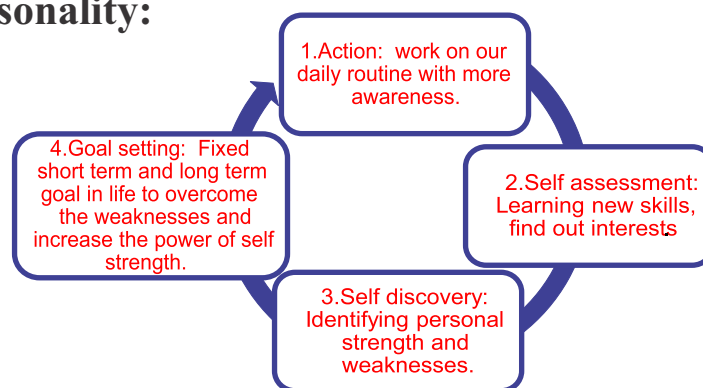
PERSONALITY THAT MATTERS :

Present education system is emphasizes on preparing successful student who excels in academics. But the all-round development is ignored. That is why such students found themselves unable to achieve the goal. It has been observed that a student with good personality reached to the heights in life in comparison to those who get higher academic achievement. Thus personality development is need of the hour with academic excellence.

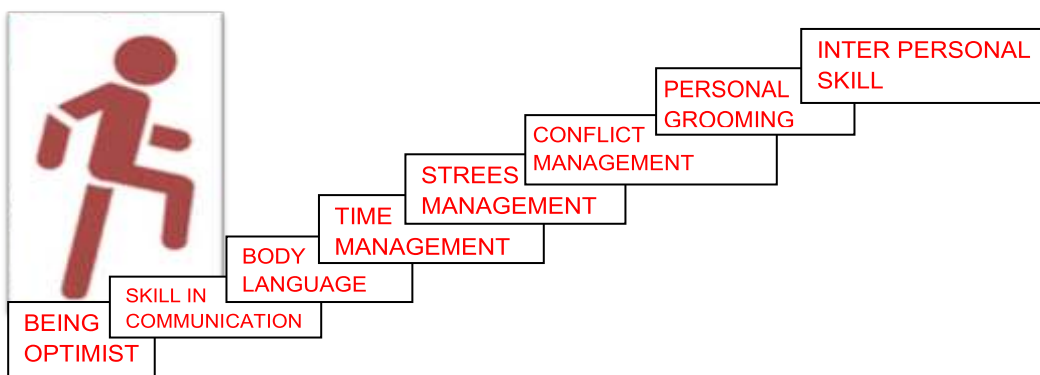
Personality is a special combination of qualities of a person that influences on others. Personality development is not an inherent property of a person. It develops over the years step by step. Important qualities in personality developments are good listener, effective and to the point speakers with impressive body language. He should be clear in his mind what he want to do, what are his goals and how to focus and achieve them. The following tractors and steps help in developing personality.

“Knowing others is wisdom; knowing yourself is Enlightenment” - Laozi

Cycle of develop personality:



Skills need to boost up personality:



In our professional life it is the personality that matter most. It is one of the important parts in our daily life which help us to reach our goal step by step. One who wants to achieve his goal and be successful in life has to develop his personality. So it is suggested to follow the above skills and steps to boost ones personality.

SHORTHAND :

Shorthand is invented by 'Sir Isaac Pitman', an English educator, the Pitman shorthand method was first published in '1837' shorthand is a phonetic language that represent by individual sign and help to write faster than longhand writing. In shorthand, one is able to write the words in a very fast and compressed way. The main purpose of Shorthand is also to write the words as fast as you can.

There are many benefits to use the shorthand language, but the first main benefit of shorthand is to save time.

For example- Save the time of the judges to write down the statement and the media who not down the statement press-conference and sending news.

Knowledge of shorthand give confidence to the secretaries & steno. As he/she understand the dictation, orders and instruction effortlessly. Even as computers became most important tool of offices, still shorthand typing is also an important skill. It gives more accuracy & smoothness in work. Now days it becomes very important in both government and private sectors.

Even the advent of computers in office the importance of shorthand knowing executive has not gone down. The person expert in shorthand can be observed in following organization.

There is a huge demand for stenographer in corporate word. If one has a good skill on shorthand then he/she a very good opportunity to get a job in the government sector. As there are many vacancies in a government sector as well as private sector.

JOB PROSPECTIVE

A full fledged knowledge of shorthand and typing give job.

Stenographer in Government / Public sector / Private organization.

Personal Assistant / Personal Secretary / Confidential Secretary to executives.

Typist in various departments.

Office Assistant / clerk in various organizations.

Receptionist / Telephone and Telex operator in various concerns.

Accounts Assistant.

Self Empolyment.

Miss. Neha
M.O.M & S.P
(Final Year)



CHANGING TREND OF LIBRARY :-

Libraries had their own historical back ground. Library mean categorical arrangement of titled books and written material. This had been started systematically during the times when Nalanda and Vikramshila were prime universities in central India. These universities got large collection of Vedas, Upnishads, Mathmatics, Astronomy and other subjects. These had been destroyed by the invasion of the Mughals. But the writers and scholars continued to write many documents and books about Indian culture and heritage.

The britishers who ruled India for almost two centuries gave no attention to the libraries that exists here and there. They only established libraries to encourage their culture and legacy. They change the medium of writing from hindi devnagri and Sanskrit to English.

After the independence, Indian government gave not much attention towards development of libraries as facing other serious problems. The government preferred to continue the same status of the libraries. But it was realised soon that to improve the education system, the need of extension and development of then libraries. Slowly the number of libraries increased in universities, colleges and schools in big cities. Further the libraries became the integral part of schools and colleges of every city and towns.

The advent of computers and internet changes the face of libraries completely computers and tablets in place of registers, catalogues and cards. Not only this, various libraries were linked with each other through internet. Nowadays books, magazine, journal etc are available as e-book, e-magazines and e-journal. Even the importance of traditional libraries cannot be ignored. Still the books in libraries are the important source of knowledge for deep study. No one involve in studies cannot forget the role of books in libraries. It has been rightly said that libraries are the richest source of books which in turn, the best friend of mankind.

- Himani Upadhyay

Library and Information Science
(Final Year)



INFRASTRUCTURE AND FACILITIES AVAILABLE :

Ingraham Polytechnic has most appropriate infrastructure for its requirement including:-

- Well-equipped computer lab with 40 latest version computers.
- Media and animation lab.
- E-classroom with studio facilities.
- Language lab with 15 computers.
- Computerized libraries with 5500 books, 10 Journals [National & International] and e-books.
- Well-furnished classroom.
- Wi-Fi campus.
- Provision of Government Scholarship.
- Centralized playground.
- Auditorium.





THE EDITORIAL :

Technica is a short but precise document of institutes vision and growth. Through Technica, we tried to meet our aims and objectives. As the magazine provide guidance to technical students but also to everyone. The articles have been selected in view of students of every stream. It may be able to increase the knowledge and attract the reader's attention towards subject like health, pollution, libraries and language.

As a technical magazine it may not be as literary but able to put an impact on everyone's mind. As this is our first attempts, we expect little bit of appreciation with healthy suggestions. We will appreciate reader's feedback online so that we can improve it in our next editions.

Thanks for Reading 'Technica'.



INSTITUTE ACTIVITIES :





INGRAHAM POLYTECHNIC

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