

Nawab Shah Alam Khan College of Engineering and Technology

(Approved by AICTE, New Delhi and Affiliated to Osmania University)

16-4-1, New Malakpet, Near Railway Station, Hyderabad Telangana 500024

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**IMPLEMENTATION OF
STUDENT INDUCTION PROGRAMME**

A Guide to Induction Program

1 Introduction

Engineering colleges were established to train graduates well in the branch/department of admission, have a holistic outlook, and have a desire to work for national needs and beyond. The graduating student must have knowledge and skills in the area of his study. However, he/she must also have broad understanding of society and relationships. Character needs to be nurtured as an essential quality by which he would understand and fulfil his responsibility as an engineer, a citizen and a human being. Besides the above, several meta-skills and underlying values are needed. There is a mad rush for engineering today, without the student determining for himself his interests and his goals. This is a major factor in the current state of demotivation towards studies that exists among UG students. The success of gaining admission into a desired institution but failure in getting the desired branch, with peer pressure generating its own problems, leads to a peer environment that is demotivating and corrosive. Start of hostel life without close parental supervision at the same time, further worsens it with also a poor daily routine. To come out of this situation, a multi-pronged approach is needed. One will have to work closely with the newly joined students in making them feel comfortable, allow them to explore their academic interests and activities, reduce competition and make them work for excellence, promote bonding within them, build relations between teachers and students, give a broader view of life, and build character.

2 Induction Program

When new students enter an institution, they come with diverse thoughts, backgrounds and preparations. It is important to help them adjust to the new environment and inculcate in them the ethos of the institution with a sense of larger purpose. Precious little is done by most of the institutions, except for an orientation program lasting a couple of days. We propose a 3-week long induction program for the UG students entering the institution, right at the start. Normal classes start only after the induction program is over. Its purpose is to make the students feel comfortable in their new environment, open them up, set a healthy daily routine, create bonding in the batch as well as between faculty and students, develop awareness, sensitivity and understanding of the self, people around them, society at large, and nature.

The time during the Induction Program is also used to rectify some critical lacunas, for example, English background, for those students who have deficiency in it.

2.1 Physical Activity

This would involve a daily routine of physical activity with games and sports. It would start with all students coming to the held at 6 am for light physical exercise or yoga. There would also be games in the evening or at other suitable times according to the local climate. These would help develop team work. Each student should pick one game and learn it for three weeks. There could also be gardening or other suitably designed activity where labour yields fruits from nature.

2.2 Creative Arts

Every student would choose one skill related to the arts whether visual arts or performing arts. Examples are painting, sculpture, pottery, music, dance etc. The student would pursue it every day for the duration of the program. These would allow for creative expression. It would develop a sense of aesthetics and also enhance creativity which would, hopefully, flow into engineering design later.

2.3 Universal Human Values

It gets the student to explore oneself and allows one to experience the joy of learning, stand up to peer pressure, take decisions with courage, be aware of relationships with colleagues and supporting staff in the hostel and department, be sensitive to others, etc. Need for character building has been underlined earlier. A module in Universal Human Values provides the base. Methodology of teaching this content is extremely important. It must not be through do's and don't's, but get students to explore and think by engaging them in a dialogue. It is best taught through group discussions and real life activities rather than lecturing. The role of group discussions, however, with clarity of thought of the teachers cannot be over emphasized. It is essential for giving exposure, guiding thoughts, and realizing values. The teachers must come from all the departments rather than only one department like HSS or from outside of the Institute. Experiments in this direction at IIT(BHU) are noteworthy and one can learn from them.

Discussions would be conducted in small groups of about 20 students with a faculty mentor each. It is to open thinking towards the self. Universal Human Values discussions could even continue for rest of the semester as a normal course, and not stop with the induction program. Besides drawing the attention of the student to larger issues of life, it would build relationships between teachers and students which last for their entire 4-year stay and possibly beyond.

2.4 Literary

Literary activity would encompass reading, writing and possibly, debating, enacting a play etc.

2.5 Proficiency Modules

This period can be used to overcome some critical lacunas that students might have, for example, English, computer familiarity etc. These should run like crash courses, so that when normal courses start after the induction program, the student has overcome the lacunas substantially. We hope that problems arising due to lack of English skills, wherein students start lagging behind or failing in several subjects, for no fault of theirs, would, hopefully, become a thing of the past.

2.6 Lectures by Eminent People

This period can be utilized for lectures by eminent people, say, once a week. It would give the students exposure to people who are socially active or in public life.

2.7 Visits to Local Area

A couple of visits to the landmarks of the city, or a hospital or orphanage could be organized. This would familiarize them with the area as well as expose them to the under privileged.

2.8 Familiarization to Dept./Branch & Innovations

The students should be told about different method of study compared to coaching that is needed at IITs. They should be told about what getting into a branch or department means what role it plays in society, through its technology. They should also be shown the laboratories, workshops & other facilities.

3. IMPLEMENTATION

ORIENTATION PROGRAM

Orientation Program for the newly admitted undergraduate students is an annual event organised every year. Students and their parents are formally invited. As part of the orientation program eminent academicians like JNTUH, Osmania University, IITH & IIITH are invited to address and orient the students as per the AICTE mandate. Apart from this expert from industries are also invited so as to orient the students about the industry requirements and trends.

Orientation Program 2020

A three week Students Induction Program SIP 2020 was conducted as per the directives of the AICTE from 5th to 19th December 2020. Dr. Mohammad Sanaullah Qaseem was the Coordinator and Mr. Raza Ahmed Khan and Mr. Mohammed Khaleel Ahmed were the Co-coordinators. Transition from school to university/college life is one of the most challenging events in a student's life. Usually little is done by most institutions, except for an orientation program lasting a couple of days. Due the Corona Pandemic an online Student Induction Programme was designed to help in the whole process which covered all the aspects not limited to College Introduction, Curriculum & Evaluations, Universal Human Values, Career Opportunities, Time Management, Health & Hygiene, Life Skills, Communication Skills, Why the need of Programming in today's world, Data Science, AI & ML: The difference and Applications to name a few. Students attended in good numbers. The parents were also invited to the Inaugural and the Valedictory sessions and were very impressed with the presentations and the orientation activities.

ORIENTATION & STUDENTS INDUCTION PROGRAM (SIP)



For Newly Admitted BE First Year Students 2020-21. Sessions in Red font: Institutional level sessions (common to all branches), Blue font : Departmental sessions

Day	Session # 1	Session # 2	Session # 3	Session # 4
Date	10:30 am - 11:00 am	11:00 am - 11:30 am	11:30 am - 12:00 noon	12:00 noon - 12:30 pm
SIP-Day1	INAUGURAL SESSION			
05-12-20	Complete Inaugural day Schedule attached			
SIP-Day 2	College Introduction	Curriculum & Evaluations	How to be Successful?	
07-12-20	Dr. Syed Abdul Sattar	Prof. Syed Farrukh Anwar	Mr. Nisar Ahmed	
SIP-Day 3	Bharat Bandh - No session - Rescheduled to 12-12-2020			
08-12-20				
SIP-Day 4	Universal Human Values			Computer Skills for Engineers
09-12-20	Dr. Mohammad Sanaullah Qaseem			Dr. Riyazuddin Siddiqui
SIP-Day 5	Career Opportunities		Time Management	Health & Hygiene
10-12-20	Dr. Syed Mujahid Hussaini		Dr. G. S. Rao	Dr. Atif Ismail (DARE)
SIP-Day 6	Life Skills		Jobs & Placements	
11-12-20	Prof. Raza Ahmed Khan		Mr. M. S. Bhatia	
SIP-Day 7	Communication Skills	Role of Engineers in our Society	Role of Chemistry in our Everyday Life	
12-12-20	Ms. Sabiha Khatoon	Dr. Zahir Hasan	Dr. Mir Moazzam Ali	
SIP-Day 8	Why the need of Programming in today's world		Details of Academic Regulations	
14-12-20	Mr.Mohammed Khaleel Ahmed		MR. Mohammed Ayazuddin	
SIP-Day 9	Beware with Cyber Attacks		A New Era Of Emerging Technologies: Welcome To The Age Of Intelligence	
15-12-20	Ms. Firdous Rehana		Ms. Syeda Farhath Begum	
SIP-Day 9	Evolution of Digital Electronics	Data Science, AI & ML: The difference and Applications		
16-12-20	Mr. D. Akbar Hussain	Ms. Fareeha Rasheed (MANUU)		
SIP-Day 10	Information Technology, trends and Cognitive Skills		Necessity of Block Chain in Today's Era	Career Opportunities
17-12-20	Mr. Q.M. A. Basheer		Ms. Waseema Masood	Ms. Munawar Khatoon
SIP-Day 11	Computer Skills for Engineerings		Cyber Security & Preventions	Recap and Feedback Session
18-12-20	Dr. Riyazoddin Siddiqui		Ms.Asma Mehdi	Dr. Mohammad Sanaullah Qaseem
SIP-Day12	VALEDICTORY SESSION			
19-12-20	Complete Valedictory day Schedule attached			



Summary

Engineering institutions were set up to generate well trained manpower in engineering with a feeling of responsibility towards oneself, one's family, and society. The incoming undergraduate students are driven by their parents and society to join engineering without understanding their own interests and talents. As a result, most students fail to link up with the goals of their own institution. The graduating student must have values as a human being, and knowledge and meta-skills related to his/her profession as an engineer and as a citizen. Most students who get demotivated to study engineering or their branch, also lose interest in learning. The Induction Program is designed to make the newly joined students feel comfortable, sensitize them towards exploring their academic interests and activities, reducing competition and making them work for excellence, promote bonding within them, build relations between teachers and students, give a broader view of life, and building of character. The Universal Human Values component, which acts as an anchor, develops awareness and sensitivity, feeling of equality, compassion and oneness, draw attention to society and nature, and character to follow through. It also makes them reflect on their relationship with their families and extended family in the college (with hostel stay and others). It also connects students with each other and with teachers so that they can share any difficulty they might be facing and seek help.