Strategic and Perspective Plan

1. Preamble :

- The Institute started in the Academic Year 2008-09 with following courses. Civil Engineering (60), Computer Science & Engineering (60), Electronics & Telecommunication Engineering (60), Mechanical Engineering (60)

- In the Academic Year 2009-10 Mechanical Engineering intake is increased to 90. In AY 2010-11, intake of Mechanical Engineering increased from 90 to 120 and that of Civil Engineering from 60 to 120. Thus total intake of UG courses for AY 2010-11 was 360.

- In AY 2011-12, a new course in Bachelor of Electrical Engineering is introduced with an intake of 60. Postgraduate courses introduced in Civil and Computer Science & Engineering departments in AY 2012-13. Postgraduate courses introduced in Mechanical and Electronics & Telecommunication Engineering departments in AY 2013-14.

- In AY 2014-15, Direct Second Year Divisions were introduced in Computer Science & Engineering and Electronics & Telecommunication Engineering departments with an intake of 60 each.

- In AY 2018-19, Direct Second Year Divisions in Computer Science & Engineering and Electronics & Telecommunication Engineering departments are closed as per AICTE apex body policy and in line with this an additional division of CSE and ENTC is started for FY B.Tech. Thus the total intake of the institute gradually increased from 420 to 540 for Undergraduate courses for First Year of Engineering.

- In AY 21-22, the intake of ENTC was reduced from 120 to 60 and a new emerging branch Artificial Intelligence and Data Science is introduced with intake of 60.

NAGESH KARAJAGI ORCHID COLLEGE OF ENGG. & TECH. SOLAPUR NKOCET

2. **Research Centres:-**

Institute has established research Centres in following programs by the end of A.Y. 2021-22

- Civil
- Mechanical

Institute want to establish research centres in

- Computer Science and Engineering
- Electronics and Tele Communication

3. Service to the Society :-

Testing and constancy services will be offered in all branches especially in Civil and Mechanical Engineering.

The available faculty expertise will be used for proof consultancy works, improvement in product design and systems.

Our Vision is that all departments will starts various training centres like Earthquake Resistance Design cell, water management cell, rural development cell etc.

4. Faculty Development Plans:-

Institute is encouraging faculty members to upgrade their academic qualifications. So also the faculty members are being encouraged to improve their knowledge by attending short term training programs at the Institutes of National Excellence such as IITs, NITs and at other Institutes. At present the Institute has allotted a fund of Rs. 5000/- for each faculty member for attending such programs.

By the academic year 2023-24 at four faculty members from each department are expected to complete their Ph.D.

Our aim for faculty development is that 50% of faculty members from each dept. should acquire Ph.D.

5. Student development Programs :-

It is the policy of the Institute that students should develop not only in academics but in co-curricular and extracurricular activities also.

NAGESH KARAJAGI ORCHID COLLEGE OF ENGG. & TECH. NKOCET SOLAPUR

Additional courses are being designed for AutoCAD, STAAD, SAP & ETAB design softwares, Catia, Revit, Embedded Systems, VLSI and other softwares also.

Various students organizations are formed in each department and students are conducting guest lectures, industrial visits, workshops etc. through these student organizations.

Students are guided and encouraged to participate in various paper presentation, project competitions and Hackthons.

Students are encouraged to participate in sports and cultural competitions also.

6. Tie-up with other national and international Institutes :-

Institute will explore the possibility of Tie-up with foreign Universities such as Royal Institute of Technology, Sweden after it gets accredited i.e. from the academic year 2024-25.

7. Emerging courses:-

From A.Y, 21-22, Institute has started the emerging course at U.G. level Artificial Intelligence and Data Science and P.G. level Structural analysis and design. It has plans to start PG level course on E-Vehicle Technology, Robotics etc. from AY 23-24.

8. Accreditation & Autonomy:-

- The institute planning to get accredited for NAAC second cycle by the end of A.Y.2022-23.
- The institute is having a plan of NBA accreditation for at least 50% of its courses by the end of A.Y.2023-24
- After accreditation process, institute has a plan to go for autonomy.

NAGESH KARAJAGI ORCHID COLLEGE OF ENGG. & TECH., SOLAPUR
NKOCET

9. Short term and Long term goals:-

Short Term Goals	Long Term Goals
All clear result more than 70%	Aim to be among top colleges of India
Placement more than 65%	Number of PhDs: 30% of total faculties
Number of PhDs: 02 per Department	100% Placement for interested students
Per year SCOPUS indexed/ Peer reviewed technical paper publication: 01 per faculty members	10% Entrepreneurs & 20% higher studies
At least 05 patents to be filled in every year	Establishing research centres in all departments.
Getting Research funds from various funding agencies	Getting accredited by NAAC/NBA
Organizing student competitions department wise every year	Collaborations with international institutes
Centre of Excellence in each department	
At least one faculty training programme in every department per year.	Autonomous status
Every faculty must complete one NPTEL course in a year.	

NAGESH KARAJAGI ORCHID COLLEGE OF ENGG. & TECH. NKOCET SOLAPUR