

ANAGHA B

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Simple, dedicated, hardworking with strong communication and technical skills in multidisciplinary domain such as process design operations, pharmaceutical industries, Research & Development, actively looking for career growth-oriented opportunities in technology development and innovation.

ACADEMICS

- M.Tech. (Chemical Engineering) from NIT (National Institute of Technology), Tiruchirappalli in 2018 with 8.89 CGPA
- B.Tech. (Chemical Engineering) from National Institute of Technology, Calicut in 2014 with 7.94 CGPA
- 12th from Sree Narayana Central School (CBSE), Kerala in 2010 with 90.2%
- 10th from Sree Narayana Central School (CBSE), Kerala in 2008 with 89%

EXPERIENCE

Senior Executive (Process Engineer) at Biocon limited, Bangalore (01/08/2018-till now)

- Handling of deviations in upstream fermentation manufacturing units with detailed investigation through Root Cause Analysis and hands on experience in deviation/change control/CAPA track wise.
- Proposing appropriate corrective and preventive action in response to the root cause identified and its implementation in collaboration with Quality Assurance team.
- Performance evaluation of Equipment (process vessels) qualification as per DQ,IQ,PQ.
- Study protocol execution for temporary change implementation as a scope of continual improvement.
- Preparation of Operating control procedure to ensure Good Manufacturing Practices.
- Preparation of periodic risk assessment of Legacy products and risk assessment through FMEA tool,
 Equipment suitability studies for the new product execution to the multi-product fermentation manufacturing facility.
- Gap assessment for existing batch manufacturing record in accordance with standard operating procedure and existing validating procedures.
- Trouble shooting in plant productivity failures.

ACADEMIC PROJECTS

M.Tech. Projects (Master of Technology):

Title: Curcumin drug delivery using hydrogel as carrier

Preparation of Hydrogel from sugarcane bagasse and a model drug curcumin was selected effectively used for drug delivery studies. Kinetic modelling was studied and analysed rate of transport for the drug -hydrogel system.

Role: Individual project

Duration: May 2017-December 2017

Title: Curcumin drug delivery using hybrid hydrogel as carrier

Nanoparticles were green synthesized, characterized and added to the cellulose hydrogel making it a hybrid hydrogel. Checking the drug(curcumin) delivery rates and

evaluated in comparison with hydrogel without nanoparticles.

Role: Individual project

Duration: January 2018-June 2018

Journal Publications Journal of Polymers and Environment

https://doi.org/10.1007/s10924-019-01495-y

B.Tech. Projects (Bachelor of Technology):

Title Curative kinetic study of epoxy resins using aliphatic hardeners (paint industry)

Addition of hardeners during the process of curing which enhances the potlife, wettability of epoxy resins and analysed how activation energy has improved based on the correlation derived from Kamals equation in reference with Arrhenius Equation.

Role: Group project

Duration: 11 months

ACHIEVEMENTS

- Third rank holder in the first year of Mtech in Chemical Engineering at NIT, Tiruchirappalli (2016-2017)
- Second rank holder in Mtech in Chemical Engineering at NIT, Tiruchirappalli (2016-2018)

INTERNSHIP

Organisation: Vikram Sarabhai Space Centre ,Trivandrum

Improving plasticizer's effect on EPDM rubber by changing its proportion and further testing

tensile strength, malleability which has applications in aircraft development.

Period: May'13-June'13

Role: Effect of plasticizers on EPDM rubber for bellows which has aircrafts applications.

Organisation: Fertilizers and Chemicals Travancore Limited (FACT), Ernakulam, Kerala

Introduction to various chemical engineering equipments which has applications in Nitrogen and Phosphate industries including distillation columns , Boilers and how waste management

is done.

Period: 14 May'13- 26 May '13

Role: Inplant Training (Introduction to various Chemical Engineering Equipments and plants)

EXTRACURRICULAR ACTIVITIES

- Junior Executive, Chemical Engineering Programming Committee, Tathva 11, the All India Techno Management Fest of NIT Calicut.
- Senior Executive, Chemical Engineering Programming Committee , Tathva 12 , the All IndiaTechno Management Fest of NIT Calicut.

- Event Co-ordinator, Tathva 12, the All India Techno Management Fest of NIT Calicut.
- Assistant Secretary of Chemical Engineering Association, NIT Calicut.
- NSS Student Co-ordinator, NIT Calicut.
- Served as a resource person in TEQIP II Sponsored Programme on Students Technical Training Course held in Anna University, Tiruchirapalli

SEMINARS/ PRESENTATIONS

• Attended conference at International symposium on functional materials (ISFM) 2018 on the topic "Sugarcane bagasse based cellulose nanogel with green ZnO NPs for biomedical applications".

REFERENCES

Mr. Rakesh D
 Senior Manager
 A2 Production Fermentation, Biocon.

2) Dr.K.M.Sheriffa Bhegum
Head of the Department
Department of Chemical Engineering
National Institute of Technology, Tiruchirappalli

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