



DEPARTMENT OF CHEMICAL AND PETROLEUM ENGINEERING
FACULTY OF ENGINEERING
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16th May, 2023.

The Dean,
Faculty of Engineering,
Bayero University, Kano.

Dear Sir,

COMPLAINS/CONCERNS ON CCMAS

Some of the observation made by the Department of Chemical and Petroleum Engineering were captured excellently in a report submitted by the Education and Research Sectoral Group (E&RSG) of the Nigerian Society of Chemical Engineers (NSChE). Some important issues are as follows.

- i. Six courses designated as electives are suppose to be compulsory for any chemical engineering programme. These are:
 - a. TCH202 – Material Science
 - b. TCH303 – Separation Processes I
 - c. TCH304 – Process Instrumentation
 - d. TCH402 – Chemical Reaction Engineering
 - e. TCH404 – Plant Design and Economics
 - f. TCH405 – Process Control
- ii. The course content of some courses has been expanded while the credit load was reduced. Examples are Chemical Engineering Thermodynamics 1, Transfer Processes, Biochemical Engineering and Separation Process 1
- iii. Some fundamental chemical engineering courses or content were removed. Therefore, adding those contents back were necessary; thereby narrowing the opportunity to add new university courses. For example, momentum transfer and fluid flow were not completely covered (under GET 205 Fundamentals of Fluid Mechanics) in the CCMAS as far chemical engineering is concerned. Another example is compressing chemical reaction engineering and separation processes into single courses respectively.
- iv. When taking (iii) into consideration, the arrangement of courses becomes an issue.
- v. Engineering Management GET501 has content of Project Management

More concerns may be found in the E&RSG-NSChE report (attached herewith). Issues similar to (i) to (iv) above were observed in the petroleum engineering CCMAS as well.

Overall, these issues have resulted in somewhat overloaded curriculum. Student will not be able to thoroughly understand these courses. They will hardly be able to learn to work in a team; or have time to think and come up with creative solutions to assignments and projects given. They will be busy with many classes. Our submission currently has forty-eight (48) courses from 200 L through

500 L taking away SIWES and two (2) projects. Overall, this amounts 65 courses.

Furthermore, there is not enough time and resources to properly critique the whole curriculum and also bring in more industry experience into it.

Finally, the Department of Chemical and Petroleum Engineering wishes to appeal for more time review and modify its submission in accordance with the recently submitted report by the E&RSG-NSChE (attached herewith). This will certainly add value to our submission.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'U. Ahmed' with a stylized flourish at the end.

O. U. Ahmed

Head of Department