COLLEGE OF APPLIED INDUSTRIAL TECHNOLOGY (CAIT)

Strategic Plan 2021-2025

Department of

CHEMICAL ENGINEERING TECHNOLOGY (CHET)

According to the 2020 – 2025 Strategic Plan of CAIT, the CHET department issues its own Strategic Plan for 2021 - 2025 from the position of strength of utilizing the resources of the department and the new privileged location of the college, seeking impetus to address the most pressing issues through belonging, leadership, excellence, and collaboration



2021

Quality Assurance Unit College of Applied Industrial Technology (CAIT) February, 2021



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Committee of the Strategic Plan for CHET

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Executive Summary

The first Strategic Plan of the department 2017 – 2019 was issued when the college was located at Saudi Electric Services Polytechnic (SESP) at Bayesh governorate and under the name of Bayesh Community College (BCC).

However, after the second Strategic Plan of CAIT 2021 – 2025 has been issued according to the new JU Strategic Plan 2020 – 2025, as well as changing the name of the college on 2019 to be the College of Applied Industrial Technology (CAIT) and moving the new location in Alhaqo at Bayesh governorate, it is of essential to update the strategic plan of the department to contend with the new situation.

The Strategic Plan 2021 – 2025 of CHET department will build from the position of strength, utilizing the college's values as strong pillars, seeking impetus to address the most pressing issues through *belonging*, *leadership*, *excellence*, and *collaboration*. Moreover the CHET - Strategic Plan 2021 – 2025 will rely on the Strategic Directions of Jazan University 2020 – 2025 and the KSA Vision 2030, as well as what were achieved in previous CHET/Strategic Plan 2017 – 2019.

Connection among members of CHET department is one of our cornerstones which will allow forward movement through the inclusion of the entire student, staff, faculty population, and community in the shared ownership of initiatives and action steps. Reducing unemployment of among graduates of CHET programs will heighten our social and economic impact, through the creation of adaptable programs which match with the job-market needs, strengthened links with industry and community outreach. Also integration with industrial partners is beneficial to combine learning with experience when involving those partners not only in internship but also in extracurricular activities that lead to more motivated students. Moreover, CHET/CAIT, as one of the assets of JU, is seeking the enhancment of the quality of researches, promote the learning outcomes of the graduates of its programs, and improve the services offered to the community.

College of Applied Industrial Technology (CAIT) acknowledges and respects all contributions propose by students, staff, and faculty which contribute to the decision-making process, foster trust, openness and understanding.

Our strategy will focus: "...on areas where we can most clearly differentiate ourselves... and produce the most impact...".

The department of Chemical Engineering Technology (CHET) embraces the vision, mission, and goals embodied in the current strategy for CAIT 2021 - 2025, which consequently extracted from JU Strategic Plan 2020 - 2025, in order to contribute effectively in JU development. The Vision of CHET/CAIT focuses on leadership in the field of technical education, while its mission statement stresses the end product of well qualified chemical technicians, who have taken advantage of qualified technical programs and industrial partnership, to service the industrial market needs. Accordingly, CHET/CAIT is committed to deliver the highest standards of education and ensuring that program educational objectives

and student learning outcomes are not only achieved but also exceed expectations of industrial partners, especially from the perspective of community and industrial development.

Building upon the initial achievements of CHET department in CAIT through its first Strategic Plan 2017 – 2019, and having determined organizational readiness for the second Strategic Plan for CHET department, the overarching theme of the period 2021 – 2025 is to invest in successful development of the CHET programs and reducing unemployment rate among the qraduates f the department, through the optimal use of new CAIT campus, and in teaching and learning quality. Finally, these issues are all affected by direct coordination in using the available resources; e.g. funding, facilities, personnel, and time. For these reasons, the CHET Strategic Plan 2021 - 2025 is aligned with the CAIT Strategic Plan 2021 - 2025.

The six strategic goals of CAIT have been utilized for CHET department, aiming to introduce, where necessary, quality systems that will eventually allow accreditation and drive quality improvement of CHET academic programs with appropriate exit points for struggled students. This reflects CHET department intention to enhance the quality of the student experience through support student needs in order to produce skilled and motivated graduates with lifelong learning skills. CHET department will undertake to comply with CAIT initiatives, when applicable, included in the CAIT Strategic Plan 2021-2025.

Organizational Structure of CHET Department

The organizational structure was developed by Quality Assurance Unit (QAU) of CAIT and ratified by Jazan University in 2019 after revision. The organizational foundations of the CAIT bring clear lines of governance and communication flow, for instance, the structure allows for the future development over the present time scale 2021- 2025 of manpower needs in the administrative areas.

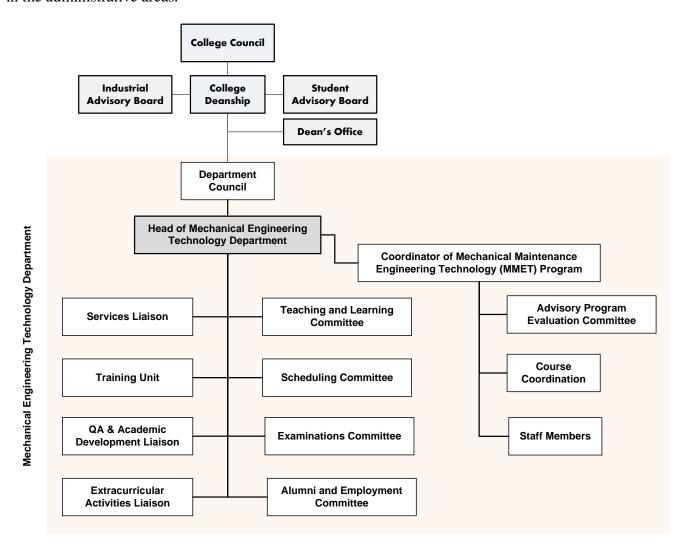


Figure 1 – Organizational Structure Framework of CHET Department in CAIT.

Chemical Engineering Technology (CHET) Department Vision, Mission and Values

[A] CHET Vision

National leadership in the field of technical education in Chemical Engineering.

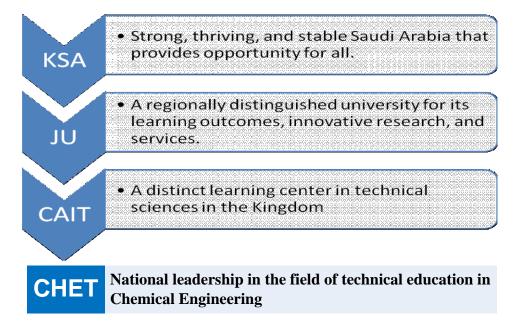


Figure 2 – The vision of CHET/CAIT

[B] CHET Mission

To service the industrial needs of Jazan and the Kingdom of Saudi Arabia with well-qualified Chemical Engineering Technology graduates, through the provision of high-quality technical programs and strategic partnerships.

[C] CHET Values

The values of CHET Department are the same as the values in CAIT Strategic Plan 2021-25. These values will put into operation and employed in the context of groups and individuals. They are:

- 1- Belonging
- 2- Leadership
- 3- Excellence
- 4- Collaboration

CHET Department Strategic Planning 2021-2025

[A] CHET Strategic Goals

The Strategic Goals of CHET department will be similar to CAIT Strategic Goals for consistency, they are:

Goal 1: Academic Excellence

The initiatives are:

- 1. Keep the ratios for Students and CHET Faculty within the optimal rates.
- 2. Increase the number of accredited Academic Programs in CHET Department
- 3. Enhance the outcomes of the Academic Programs in CHET Department
- 4. Continuous developing of labs/workshops in CHET Department to match with the program updates
- 5. Attracting high quality academic manpower in CHET Department to enhance teaching and research

Goal 2: Adaptable Technical Programs

The initiatives are:

- 1. Develop adaptable programs in CHET Department which have elective courses and exit point to address the needs of employment in the industrial community and help the students to choose among them what suits their capabilities.
- 2. Creating specialized programs with professional certificates in Chemical Fields that suit the needs of the region.

Goal 3: Strategic Partnership and Consultancy with Industry

The initiatives are:

- 1. Create a Research Unit related to Chemical areas to support the needs of the industrial field.
- 2. Establishing educational and training partnerships to promote students by means of workshops and special programs to end up with employment on graduation.

Goal 4: Student-Centered Focus

The initiatives are:

- 1. Developing operating procedure of academic advising which acts as a bridge between students and staff in CHET Department.
- 2. Developing facilities for students' extracurricular activities for students in CHET Department.

Goal 5: Social Responsibility

The initiatives are:

- 1. Providing free short hands-on chemical engineering training, essential for job-ready manpower, for high school students.
- 2. Establishing a voluntarily Community Service Unit that provides volunteer works to serve community and spread the volunteer culture within CHET department.

Goal 6: Relational Leadership

The initiatives are:

- 1. Developing CHET department manpower by providing programs in enhancing their academic, administrative, technical skills and capabilities in their respective fields.
- 2. Implementing workshops to develop leadership, communication, innovation and entrepreneurship skills among students in CHET department.
- 3. Plan to reduce unemployment for graduates of programs in CHET Department.

[B] ID Cards for the Strategic Goals of CHET/CAIT

Strategic Goal ID Card								
CHET Strategic Goal number	CAIT01/CHET01							
CHET Strategic Goal	Academic Excellence							
Initiatives		KPIs ¹	Unit	value	Target	Regional Benchmark		
	Ratio of student to	faculty*	Ratio					
Keep the ratios for Students and	Dropout rate*		%					
CHET Faculty within the optimal rates	CHET program tin		%					
	Ratio of faculty ho		Ratio					
Increase the number of accredited	Percentage of academic CHET programs accredited by ABET.		%					
Academic Programs in CHET Department	Percentage of academic CHET programs accredited by NCAAA.		%					
	Percentage of achievement in Knowledge		%					
Enhance the outcomes of the	Percentage of ach	ievement in Skills	%					
Academic Programs in CHET	Percentage of ach	ievement in Values	%					
Department	The ratio of the graduates with honor rank to all graduates		Ratio					
Continuous developing of labs/workshops in CHET	The percentage of	labs' preparedness	%					
Department to match with the program updates	The percentage of lab occupancy		%					
	The average publication for CHET faculty member*		Number					
	Rate of citations in peer-reviewed journals for each faculty member*		%					
Attracting high quality academic	The percentage of the budget allocated for scientific research*		%					
manpower in CHET Department to	Number of research	ch in ISI journals*	Number					
enhance teaching and research	Number of research		Number					
	The percentage of scientific research	external funds for	%					
	Number of patents	s and awards*	Number					
		ch partnerships with	Number					

 $^{^{1}}$ KPIs end with "\ast" are required by JU.

Strategic Goal ID Card									
CHET Strategic Goal number	CAIT02/CHET02								
CHET Strategic Goal		Adaptable Technical	Programs						
Initiatives	KPIs ² Unit				Target	Regional Benchmark			
Develop adaptable programs in CHET Department which have elective courses and exit point to	The ratio of elective courses to core courses offered in CHET programs		Ratio						
address the needs of employment in the industrial community and help the students to choose among them what suits their capabilities	The ratio of CHET programs that have exit point to all programs		Ratio						
Creating specialized programs with professional certificates in Chemical Fields that suit the needs of the region.	The number of the students in		Number						

² KPIs end with "*" are required by JU.

Strategic Goal ID Card									
CHET Strategic Goal number	CAIT03/CHET03								
CHET Strategic Goal		Strategic Partnership a	nd Consulta	ancy w	ith Ind	lustry			
Initiatives		KPIs ³	Unit	value	Target	Regional Benchmark			
Create a Research Unit related to Chemical areas to support the needs of the industrial field.	Number of sup CHET Department of the control of the		Number						
	The number of partnerships in with the indust	CHET Department	Number						
Establishing educational and training	Number of partin CHET Depart	tnership agreement rtment	Number						
partnerships to promote students by means of workshops and special programs to end up with employment on graduation.	-	dents in CHET dertaken workshop with employment on	Number						

 $^{^3}$ KPIs end with "*" are required by JU.

Strategic Goal ID Card									
CHET Strategic Goal number	CAIT04/CHET04								
CHET Strategic Goal		Student-Cantered Foo	eus						
Initiatives		KPIs ⁴	Unit	value	Target	Regional Benchmark			
	Students Experience Survey in CHET Department		Number 0 to 5						
Developing operating procedure of academic advising which acts as a bridge between students and staff in CHET Department	Program Evaluation Survey in CHET Department		Number 0 to 5						
CHET Department	Academic Adv CHET Departm	rising Survey in nent	Number 0 to 5						
Developing facilities for students' extracurricular activities for students in CHET Department.	The number of extracurricular activities in CHET Department		Number						
	The number of Department pa extracurricular		Number						

 $^{^4}$ KPIs end with "*" are required by JU.

Strategic Goal ID Card									
CHET Strategic Goal number	CAIT05/CHET05								
CHET Strategic Goal		Social Responsibility							
Initiatives	KPIs ⁵		Unit	value	Target	Regional Benchmark			
Providing free short hands-on chemical engineering training, essential for job-ready manpower, for high school students	short hands-on	The number of participants for the short hands-on chemical engineering training held							
Establishing a voluntarily Community Service Unit that	The number of volunteer activities in CHET Department that serve the community.		Number						
provides volunteer works to serve community and spread the volunteer culture within CHET department		satisfaction level sy services provided artment	Number 0 to 5						

⁵ KPIs end with "*" are required by JU.

Strategic Goal ID Card									
CHET Strategic Goal number	CAIT06/CHET06								
CHET Strategic Goal	CHET Strategic Goal								
Initiatives		KPIs ⁶	Unit	value	Target	Regional Benchmark			
Developing CHET department	The ratio of participants to faculty in CHET Department		Ratio						
manpower by providing programs in enhancing their academic, administrative, technical skills and	The average number of professional development hours completed by faculty members in CHET Department		Number						
capabilities in their respective fields	Faculty Satisfaction Survey in CHET Department		Number 0 to 5						
Implementing workshops to develop	Department	orkshops held by CHET	Number						
leadership, communication, innovation and entrepreneurship skills among students in CHET	The average number of students who participate in the workshops provided by CHET Department		Number						
department	Employer Satisfaction Survey for Graduates of CHET Department		Number 0 to 5						
Plan to reduce unemployment for graduates of programs in CHET	total graduates in CHET Department		Ratio						
Department	Alumni Satisfaction Department	on Survey for CHET	Number 0 to 5						

 $^{^{6}}$ KPIs end with "*" are required by JU.