Brd year 2nd Semester; Session: 2020-21 Dept of ICT, MBSTU.

Different Agile Approaches and their

Comparcère Analysis:

Different Agile approaches can compare based on how they north, their applicability, cost-effectiveness, and other tactors:

Agèle Approach: Scrum

How it	Iterative framework toeusedon delivering
works	Energements in time-based boxed sprients
	Roles include Product Owner, Scruen
	Master, and Development, Team.
Applicability	Best suited for complex projects with
	evolving requirements, especially in
	software development
Effectiveness	moderate cost due to frequent iterations,
in torums	though team training and Scrum
of contro	though team training and Scrum Marster may add to the cort.
Key	Provides clear structure, reales, and
Strengths	responsibilites. Facilitates continuous
	improvement.

# Apile Approach: Extreme Programming (XP)

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How its	Emphasizes technical excellence with
work	practices like Test-Drieven Development
	(DD), Pair Programmère.
Applicability	Ideal for projects with high technical
	complexity and where frequent releases
NOT THE COLUMN TO THE COLUMN T	are needed.
Effectiveness	High upfront contra due to practices like
interms of	paire programming.
Key	High code quality, rapid feedback, and
Strengths	customer involvement.

#### Agile Approach: Crystal

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	Focuses on people, interactions, and tailoring processes to fit the team and project.
Applicability	Estective for small to medium-sized teams working on non-critical application.
Effectiveness	Low to medicers cost due to ménéral
int terms of capts	documentation and lightweight processes.
Strengths	Highly cour customezable and focuses on team communication and collaboration.

#### Agile Approach: SAFe (Scaled Agile Framework)

How its work	Scales Agile preactices to large enterprises by organizing teams, programs and portfolions.
Applicability	Suitable for large-scale projects and enterprieses with multiple teams and interdependencies.
Effectiveness in terms of centro	High cost due to training, licensing, and coordination across teams, but can deliver substantial ROI if implemented correctly.
Key Strengths	Provides a scalable framework for large enterprises. Encourages alignment and let collaboration.

### Agile Approach: Kankan

How Pt	Visualizes the workflow using a kanban board, with a focus on limiting Work In
Applicability	Progress to optimeze flow.  Suitable for main tenance, suppost, or projects with no fined time frames, and where continuous delivery is required.
Effectiveness in terms of constra	Low cost due to minimal overhead and flexibility, but less predictable timelines may lead to hidden costs.
Key Strengths	Highly flexible and can be integrated with other Agile methods.

## Agile Approach: Lean Development

HOW I TO	Focuses on eleminating waste, optimizing flow, and delivering value continuously.
Applicability	Best for organizations aiming for continuous improvement in their product delivery p process.
Effectiveness in terms of Costo	Mederum cost due to the need for process rederigns and continuous monitoring.
key Striengths	Efficient resource utilization and reduced waste.