Project Team and Teamwork

"The ability to function on (multi-disciplinary) team environment"



Department of Electrical Engineering and Computer Science Howard University

1

1

Project

- Project Candidates
 - VIP:
 - Faculty's funded/unfunded project
 - VIP (industry sponsored/unsponsored)
 - <u>Competition</u>: Posted project goals (of national or international <u>competition</u>)
 - <u>Student initiated</u>: Created goals following the guideline (of industry project, competition, etc)
- Project Execution/Progress
 - Weekly <u>team</u> meetings → <u>now we talk about</u> team itself

2

What is team?

- A team is a special kind of group deliberately formed to commit to a purpose
- Formal Definition: "A team is a () number of people with () skills who are committed to a common () and set of performance (), for which they hold themselves mutually ()."

--- Katzenbach & Smith

A

3

3

More than just tasks

 2 Essential elements of a Team :

- -() & -()
- Key to Success
 - −() between −() and
 - .(





Δ

1 Tasks

- Tasks:
 - Directed toward reaching()



- Focus on () and decision-making
- Elements of effective task accomplishment
 - Seeking Information
 - Sharing Information
 - Walking the talks
 - Bringing results to meetings



5

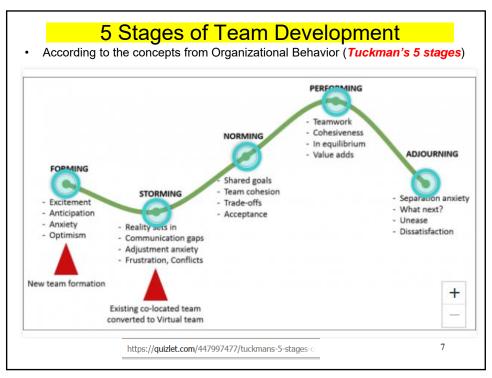
5

2 Relationship



- Relationship:
 - Building Morale through investment in interpersonal attributes of (______)
 (______), and (______)
 - Elements of effective relationship and high team morale
 - Listening
 - Seeking agreement
 - Encouraging
 - Compromising





7

Recap: Team Team is Formed by a () number of people Guided by a common () and set of () Functioned by roles of members in accomplishing () while keep binding () Held mutual () How to hold mutual ()? Run by following agreed-upon rules.

Team Contract Contents

Project

- Project Title
- Brief project goals/scopes
- Final product (Deliverables)

Weekly Team Meetings

- Meeting Place
- Meeting Time

Team Running Rules/Policies

- Meeting attendance/absence
- Performance of assignment/task
- Relationship building
- Connection/communication/responses
- Commitment



9

٤

Team Contract Contents - Example

Project

- Project Title Solar Powered Autonomous mini-Car
- Brief project goals/scopes: <u>Design and build a solar-powered</u> <u>autonomous mini-vehicle for use in the upper quadrangle</u>
- Final product (Deliverables): <u>A self-operating mini-vehicle with solar</u> panel

Weekly Team Meetings

- Meeting Place: LKD2019 CEA reading room
- Meeting Time: 5 7 pm

Team Running Rules/Policies

- Meeting attendance/absence: <u>1 absence costs 1 point in the</u> <u>"participation score"</u>
- Performance of assignment/task : <u>a late or incomplete work costs 1</u> point
- Relationship building: <u>listening</u>, compromising, acceptance
- Connection/communication/responses: no response within 24 hours costs 1 point
- Commitment

Why "Team Contract"?

- **Purpose**: Acceleration of a team's development in order to move quickly in to the <u>performing stage</u>.
- Benefits:
 - Relationship building
 - Jump-start collaborative efforts
 - Assignment of definite tasks
 - Identification of expectations for each
 - · Level of group participation
 - · Personal individual accountability
 - Establishment of team procedures (Rule, guideline)
 - Specification of consequences for failing the procedures

11

11

<u>Project Team Contract</u> For Senior Design Classes EECE401 and EECE404 Electrical Engineering and Computer Science Howard University				Team Contract Form
	er/Year: (Fall 20)			
Project Team Name				
Project Team Members	Name1: Name2: Name3: Name4:			
Project Advisor				
Project goal/scope				
Project Deliverables				
Weekly Team Meeting	Meeting Place(s): Meeting Time(s):			
Project team Rules and Policies				
Commitment by Participant	By signing with my full name, I vi collectively complete the project u I understand that I am obliged to a	under the guiding goals, rules, and bide by these rules and policies	policies as stated in this c	ities to outract.
	Name;		2022	
	Name:	Date:	2022	
	Name;	Date:	2022	
	Name:	Date:	2022	
				12

Weekly Meeting

- Weekly Meetings (outside the class)
 - Tasks are defined, assigned, and checked toward the target
- Weekly Meeting
 - The main form of information exchange
 - Pick the best medium/platform
 - Start on time and finish on time
 - Tasks to be identified and allocated
 - Status on assigned tasks reported
 - Assigned/completed tasks are discussed
- Meeting Agendas and Minutes
 - Without agenda, meeting is not productive
 - Agenda contents:
 - · Purpose; Topics; Desired outcomes



13

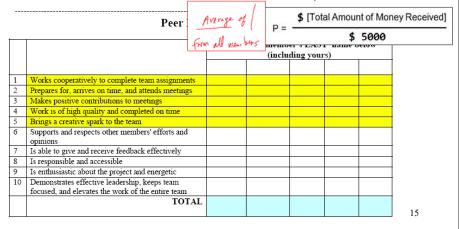
13

Team Participation and Peer Evaluation

- What is Peer Evaluation?
 - Evaluation of each team member's strength and weakness in terms of Tasks and Relationships
- Why do we do peer evaluation ?
 - Teamwork & Fairness
- · How do we do it?
 - Analogy: In a company, bonus is set for each project team with \$500 per each member. At the end of the project performance evaluation, the bonus is distributed by performance basis.
 - At the end of the semester
 - Each member fill out the form individually
 - Submit the form individually (confidential)
 - The submitted evaluation forms and results <u>are</u> kept confidentially by the instructor.

Peer Evaluation Form

- For each item (we have 10 items: 5 for tasks and 5 for relationship) a team is given a sum of money allocated to \$500 per member.
- For each item, distribute the sum to each member according to his/her performance on the item
- The same scores for all members are not accepted nor counted.



15

1st Team Work

- First Team Meeting
 - When: As soon as possible but no later than (F)
 Sep 30
 - Tasks
 - · Initiation all team member meeting
 - · Elect the team leader
 - · Decide Time/Day of Weekly meeting
 - Completion of Team Contract
 - Complete the Problem Statment
- Submission:
 - team contract
 - Problem Statement
 - Due: (M) Oct 3,2022