Project Planning Milestone 2

Deadline: 12/5/2022

For each paper in your group folder:

Write the problem formulation of the papers **objectives+ constraints+ decision variables if found**

Fo the variables of the problem formulation use the following **variables if valid if not leave their variable as is**

Symbol	Quantity
K	Set of users k
W	Set of Possible interfering users w
H	Set of RRHs h
Z	Set of Zones z
$P_{k,h,r,z}$	Processing power of Resource Block r allocated to user k in RRH h in zone z
P^T	Power Transmitted per PRB
G^T	Gain Transmitted
G^R	Gain Received
f	Carrier Frequency
n	Path loss exponent
$d_{k,h}$	Euclidean distance between user and RRH
λ	Wave length
$d_{k,h}{}^{eq}$	Equivalent user distance after PRB assignment
$\hat{R}$	Maximum number of Resource Blocks r in RRH h
$\check{Q}_k$	Minimum required rate for each user k
SNR^{eq}	Equivalent SNR of a user
Q_k	SINR computation for each user k from all assigned PRBs and all RRHs.
I_k	Interference computed for user k form possible interfering user w sharing the same PRB r
N_r	Added noise per PRB r
$S_{k,h,r,z}$	Downlink power received for user k form]assigned PRB r form RRH h
$S_{k,h,r,z}{}^{eq}$	Equivalent downlink power received for user k form assigned PRB r form RRH h after interference.

** for example if their set of users is called ‘U’ replace it with ‘K’ etc

You are required to submit a presentation with e problem formulation. Stating clearly in sentences the objective e.g: minimize/maximize and the constraints along each equation.

If you have any questions please send me an email

Submission: submit the presentation inside your group folder in the following drive

https://drive.google.com/drive/folders/19Bg6QTgo2TlYrz_C0rM6jywQkUZF7Eq9?usp=sharing