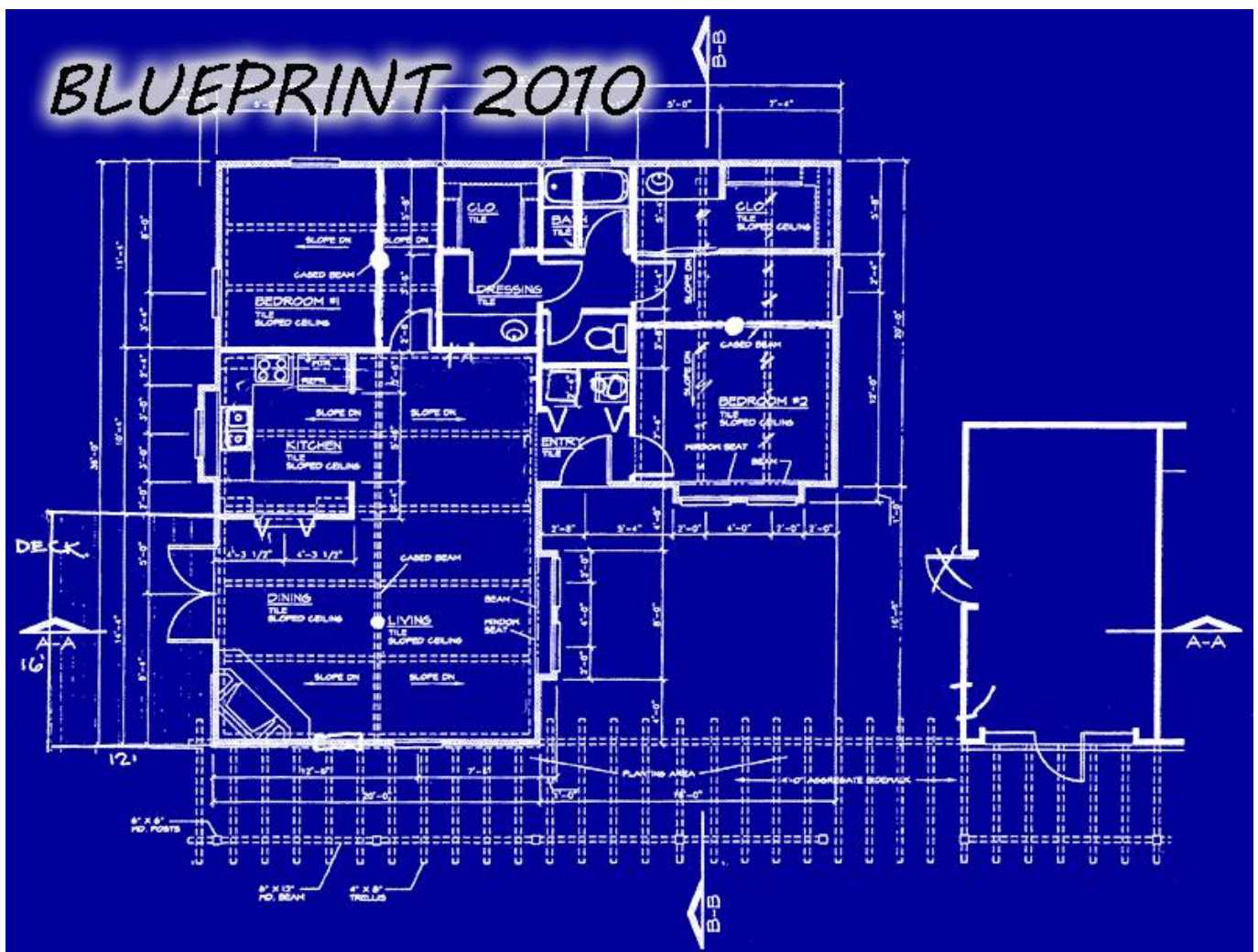


BLUEPRINT is a design competition which aims at testing one's innovativeness in approaching a problem. Previous designs such as 5 star hotels and libraries have seen some innovative designs from the participants.

BLUEPRINT 2010 is now breaking all traditions to go back in the past and explore the marvels of that time. If you think that designing a structure in the past is easy then you have to rethink because BLUEPRINT 2010 aims at challenging the innovativeness of the participants.

A problem statement will be uploaded 4 or 5 days prior to the event which will have all the specifications of the desired structure. The problem is to be analyzed and the solution is to be devised accordingly keeping in view various points from the given problem statement.

A blueprint is a type of paper-based reproduction usually of a technical drawing documenting architectural or an engineering design. More generally, the term "blueprint" has come to be used to refer to any detailed plan. Making it simpler BLUEPRINT 2010 gives the participants the flexibility of designing a 3D view of their model or just a 2D plan.



Problem Statement

In a hypothetical situation in the past, an Indian Emperor had just conquered new territory and finds the territory very strategic and so decides to build a fortress is one such strategic point. The strategic point is at an elevation on 300 meters and in rectangular shape with dimensions of 800m * 700m. He decides to build a fortress on that location. The kingdom will be spread around the location and his only enemy being in the South Direction. So the emperor gives the job of building a fortress which should also be economic and so a study is conducted and the output of the data being the following:-

SPECIFICATIONS

- 1) Dimensions of the strategic location = 800m * 700m
- 2) Height of location from normal ground level = 250m
- 3) A river flowing in the North direction adjacent to the location
- 4) Wind Flow towards North East direction throughout the year with great variation in intensity
- 5) The weather conditions being extreme so there is great variation in temperatures also
- 6) The enemy is located towards the South of that area

ATTACK COMPOSITION

- 1) The enemy mainly comprised of three attack types – archers, infantry and heavy units
- 2) Archers had a range of 100 meters
- 3) Heavy units (like elephants) were used to destroy the walls and also cause damage inside (siege weapons)
- 4) The siege weapons had a range of 350 m

EMPEROR'S REQUIREMENTS

- 1) The castle inside the fortress should be dome and arch shaped and should consist of two floors (Ground and first floor)
- 2) There should a proper entrance and an emergency exit to be used when required
- 3) The fortress should have watch towers to watch for any possible attacks or threats
- 4) A proper dining area in the first floor adjacent to the master bedroom

- 5) A private room where he can work out strategies
- 6) A room for the queen where she can rest privately
- 7) All the rooms should be properly ventilated and should provide a view of the river in the North side
- 8) Adjacent to the castle on one side there should be quarters for his 10 ministers and on the other side quarters of the 10 military officials
- 9) In the ground floor there should be a main hall where the emperor can address his ministers and officials or can use it for small entertainment
- 10) On both sides of the hall there should be rooms for a total of 40 servants
- 11) There should be space for public addressing in the fortress which can also be used for other mass activities of the king
- 12) There should be area for recreation inside the fortress and also proper beautification must be done
- 13) There should be a separate bath area for the king and the queen and should be secluded
- 14) The emperor wants the castle to be optimized fulfilling the basic requirements specified and some other requirements based on your imagination and not very large
- 15) The walls should also be made economical but have to sustain extreme attacks
- 16) The walls also should have bastions
- 17) The construction of fortress should be such that there is minimal damage done to the walls
- 18) The main hall has to be such that a reasonable temperature is maintained even during high temperature
- 19) The bedroom should have reasonable temperatures in all extreme climates
- 20) There should be a stable to house his 15 horses

So keeping in view of all the basic requirements, specifications and also attack composition a fortress has to be designed. While designing make sure that excess materials are not used where not required. The space should be properly utilized and so is the scenic beauty. Properly utilize the wind direction in building the fortress and also the castle inside it. Make sure there is proper ventilation and lighting in each room and do not forget we are in an age where there is no electricity. Give proper dimensions of rooms and other facilities. Other facilities can be incorporated based on the participant's knowledge and creativity.

The presentation should clearly explain the design/plan of the fortress, communication system, the transport facilities, strategic points on the walls and other details especially the water distribution networks and sewage networks.

Judging Criteria

- 1) The fulfillment of basic requirements of the king
- 2) Utilization of the land area
- 3) Unnecessary usage of materials
- 4) Interiors and also the temperature control
- 5) Connectivity of the rooms
- 6) Aesthetics and incorporation of other features
- 7) Overall Presentation

Rules

- 1) A team can consist of a maximum of 5 members
- 2) The presentation can be in 2D or 3D or partial 2D and partial 3D
- 3) Same applies for the application used i.e. multiple applications can be used
- 4) For applications other than Google Sketch Up and AutoCAD 10 the participants need to bring their own laptops
- 5) The presentation should explain all the details
- 6) The decision of the judges will be final and binding

For Details Contact,

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