## Staffing Level Estimation NORDEN WORK



Project Manager has to figure out Staff Estimation after the Efforts required to develop a software has been determined.

Norden investigated the staffing pattern of R&D project Norden Estimation :-

He studied the staffing patterns of RAD projects and proposed that Staffing level pattern Can be approximated by Rayleigh distribution curve which specifies that the Relationship between applied effort and delivery time for a software project. It is also called Putnam-Norden-Rayleigh Curve PNR Curve.

He represented the Rayleigh curve by their equation

E= K/13 + + \* et2/2+3

Here E is the effort required at time t. ( Engineers and Staff)

K= A sea under the Cuve

Royleigh Staffing Profile. Effort Per Unet

Rayleigh Curve

td = time at which the acre attains its maximum values

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## Staffing Level Estimation: Tutorials Space.com A SIMPLE LEARNING Putnam's Work

Putnam analyzed that Characteristics of Software Development and Staffing has some Characteristics of Rand D projects studied by Norden and Rayleigh-Norden Curve can be used to Relate the number of delivered lines of code to the effort and the time required to develop the project.

L= CKK113 ta 413

K: Total effost expended in PM in product development

L: The product Size in KLOC

te: Time required to develop the software.

Ck: State-of-Technology Constraints

like Ck=2 ( Poor development environment)

CK=8 ( Good Software dev. Environment)
CK= 11 (Excellent Environment)

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