1. Mature of sourice and service encounter 3. Elaborak complaint handling and securice sucovery

6. Developing strategy for building world class org.

(A) NGD cycle

5) rehicle routing problem

2- Balancing demand and capacity

computery question.

(7) Examine the GDD growth in Indian securice elector.

Anewery.

4. New service development.

\* the process of MSD involves several key stages & factory a) I dea generation: I dear for new services come from various sources including automer reggettion, untomer db, demographic trends and tech. advancements: There iclear form the initial Ilp for the MSD procen.

5) Development stage: New idea are screened, and promising concepts are developed and teeted for fearibility. This compute means move torward to the analysis phase.

stage: concepts once further evaluated to deturine their potential as profitable business ventures. Factors such as market demand, competition, cost, potential scor are cenered. Design phase: successful concepts from the analysis stage undergo detailed design and development to viente the Naproduct and process. considerable resources are invested in this phase to enewe that the service meets automer needs and can be effectively delivered. e) Field tecting: once designed, the new service is tested in a real world setting, typically in a specific city (or) region. This phase involves personnel training, marketing campaigns, gathering feedback from cuitomers to refine the securice pursua 4) Full (aunch: After successful field teeting, the new service is launched on a broader scale either nationally (or) worldwide. This stage make the Official introduction of the service to market and involver scaling up operations to meet demand. securice product components: (people, systems). people -> employee and cultomers are integral components of service product employees must be recruited, trained and empowered to delice excellent service. Systems > Various systems are essential to accomplish facts in source delivery. Ball office systems such as patient records

Teacher's Signature:

Sylfime in heathcare clinice, support unioner facing employees. Front - office systems like online hotel booking plutform, interface discotty with

NSD kole of technology in securice innovation \* Technology advances! Deviewering value to wellomory. tg: Power (energy, physical design, materials, methods, info

& of NSD yell:

=) Enhance competitive advantage

>1a cuitomer satisfaction

=> Improves operational efficiency

=) & market risks

mencourage innovation

+ It is a logistical optimization problem where the goal is 5. vehicle routing problem to determine the most effecient vouter for flect of vehicly

serve a set of cultomers

\* It helps to reduce operational coste i îm prove delivory times, and enhance customen sourisfaction by oplimiting nouter and nevource allocation

b) objectives of VRP in service 1.

Minimize Travel Distance | Time: Reduce quel concumption and travel 108/5

maximize vehicle utitization, pruvies optimal une of auxil remove

Page No. :

neet untomer demand: Encevier timely and accurate Service delivery uinimize operational costs: Balances service quality with cost efficienty.

Typu:

(i) capacitated VRP: vehicles have limited capacity and the objective is to fulfill

customes demande within theulimis (ii) VRP with time windows: Sourice must be delivered

withen specific time slots. (iii) Dynamic 'VRP: Router we adjusted in realtime based on changing demands.

(iv) VRP with pickup and delivery: Involves transporting goods (m) parrengers from specific piccup locations to delivery destinations.

Applications of upp in services

E-commerce logistics, courier and postal services, Healthray Service.

challenges in VRP implementation:

Traffic and Route variability, demand furtisation, Time sencitivity.

Solution Techniques for VRP: txact algo -> Branch - and bound Branch - and - out for small scale problem Hemistic methods -> Grenetic algo, simulated annealing retaheunstic approaches =>> Ant colony opimization by improve noute ethiciona + Matwe of Service and service encounter: 3- complaint handling and evuice su covery. > complain to the and there is the with the property servoice from complain to a take some pom third party , of public action y take legal action to seek redrew Talel some from Defeat (switch sourice en counter of Private action provider) is unatistactory Regature word of mouth Take no action 11, and at an interior try one con combi. of these steepones is possible

Page No. : undustrand to conformer supporter to service feitures · why do cultomer complain? 3 obtain compeniation , vent their anger , Help to improve the service -> pearon what proportion of unhappy automera complain? . why don't unhappy automurs complain? . who is most-likely to complain? · where do centomers complain? e what do untomers expect once they have made , procedural, interactional, outcome jurice. Three dimensions of purcieved fairney in service sucovery. complaint Hundling and securice ke covery Process Procedural Interactional outcome Justice Julice Julice automa satisfaction with

the Sewice Sucovery Teacher's Signature customer responer to effective service sucovery. Service sucovery -> plays a oucial role in achieving cultomer satisfection by teeting a him commitment to satisfaction and source quality and -) Impack customer loyality and future protitability. Principler of affective securice recovery systems | red satisfaction Effective complaint/ and loyality Do the job right Hundling the 1st time conduct receich monitor compaint Identify service complaints Develop effective Recowe complaints system and toaining effectively in complaint handly learn from the conduct root sucovery experience come analysis erose the loop the feedback. which now white Luner was

smategies to reduce unioner complaint barriers.

complaint Barriere for disatified untonery , In convience

s Doubtful pay off

) unpleasanthey

strategies to oreduce there Raviers.

-> redce feedback pary and conveninent

-> have feedback expressionce

nature of service and service encounter.

\* modern economy, accounting for a significant share of GIDP and employment worldwide.

\* securices are intangible, previshable and often require direct interaction blu the provider and the cultomer.

definition of service: services are activities, benefits, Setisfactions offered for sale on provided in connection with sale of goods.

key characterities

a) Intengibility -> souvice can't be seen, touted, felt, heard (or) smelled by purchase. Eg: Education, legal advice, medical treatment.

Teacher's Signature:

b) Trueparability -> services are typically produced and concurred einentantiouly. the provider and consumer often trave to be present together for the transaction

Eg: A hairent requires both the barber and automer

1) vouéability (Helerogenety) +> sourice quality may vary depending on who provide they when, where and how

Ey: same noted may often dift. ducele of service quality d) per la bor later une (a)

e) Lack of ownership -> sourice don't result in ownership of anything.

clanification of services:

Ly concumer securices -> provided directly to individuals

Li Buiners services -> " " to org.

law thank to their , willow hope , michalled - 150

Ly public sourices -> " govt.

59: Banking, Transportation, Hospitality

gourice encounter

A securice en counter is the moment of interaction bhu the untomer and the securice provider, often settered to at moment of truth.

Elements of service encounter:

customer -> The receiptant of the service. service.

Sourice provider -> the employee cor) system delevery the perivery system -> the processes and tech - enabling the service pryrical Evidence -> Trangible that helps unformers evaluate the service.

Type of service encounters:

a) Face-to-Face encounters -> Direct, personal interaction blu customer and provider.

ty: Dining at a frestaurant, concluding a doctor.
b) phone en counteru -> Interaction occurre over the
telephone.

j: cultomer calling a call center for support.
c) kemole > No direct human contact, interaction

through tech.

13: using an ATM, online banking,

Importance of service encountous

b) First impremion and moments of truth

Teacher's Signature:

4) Building untomer relationships 1) service quality perception \* Employees muit be well baired, and empowered Managing service encounters. #9: A hotel receptionist who handles a guest complaint efferiently can tuen a cove experience into control to scholure issuer on the spot by Travel and Town in Healthcare, Banking (ketai), challenger in service encounters. \* Managing automer exceptations and emotions \* Eneuring consistency across multiple en country \* Training employeer to nardle difficult situations and channels. and diverse curboner needs. \* Invert in employee training and empowerment Strategies \* use technology to streamline processes. \* provide self-seourise options

the feweres with 187 to sent as the

ister to eliconomy love marriage, that I