DEPARTMENT OF TEXTILE ENGINEERING.
GOVT. POLYTECHNIC BHADRAK

COURSE FILE

SUBJECT: Entrepreneurship and Management & Smart Technology
NAME OF FACULTY: Sri Debiprasad Dash

<u>EntrepreneurshipandManagement&SmartTechnology</u>

<u>*TopicwiseDistributionperiods*</u>

SlNo.	Topics	No. of periods as perSyllabus	No. of period actually needed	Expectedmark	
1	Entrepreneurship	10	11	07	12
2	Market Survey and Opportunity Identification (Business Planning)	08	05	06	15
3	ProjectreportPreparation	04	04		07
4	ManagementPrinciples	05	05	07	13
5	FunctionalAreasofManagement	10	12		07
6	Leadership andMotivation	06	05		07
7	WorkCulture,TQM&Safety	05	05		07
8	Legislation	06	06		06
9	SmartTechnology	06	06		06
	Total	60	63	20	80

GOVT.POLYTECHNIC,BHADRAK

Entrepreneurship and Management & Smart Technology

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Preparedby:*Debiprasad Dash*

CHAPTER1Entrepreneurship

ConceptofEntrepreneurship

Entrepreneurshipistheabilityandreadinesstodevelop,organizeandrunabusinessenterprise,alongwith any of its uncertainties in order to make profit. The most prominent example of entrepreneurship is the starting of new businesses.

Entrepreneurship is the process of identifying, creating, and pursuing opportunities to develop and bring innovative ideas, products, services, or businesses to the market. It involves taking initiative, assuming risks, and organizing resources to transform innovative concepts into reality

MeaningofEntrepreneur

An entrepreneur is an individual who identifies opportunities, takes the initiative, and assumes the risks involved in starting, managing, and growing a business or venture. Entrepreneurs are driven by a vision to create something new or innovate in various fields, such as technology, products, services, or social initiatives. They play a crucial role in driving economic growth, job creation, and foster ng innovation in society.

Whatarethe4TypesofEntrepreneurships?

Itisclassifiedintothefollowingtypes:

SmallBusinessEntrepreneurship-

Thesebusinessesaregrocerystore,traelagent,consultant,carpenter,plumber,electrician,etc.Small businesses are typically characterized by having a limited number of employees, lower revenue and profit levels compared to larger enterprises, and a focus on serving a local or niche market. Small business entrepreneurs are individuals who take the initiative to create and run these small enterprises. They fund their business by taking small business loans or loans from friends and family.

ScalableStartupEntrepreneurship-

Scalable startup entrepreneurship refers to the process of launching and growing a startup with the potential to achieve rapid and significant expansion.In this context, scalability refers to the ability of a business to handle a growing amount of work, sales, and customers efficiently, without proportional increases in resources and costs. The goal of scalable startups is to achieve exponential growth, often fueled by technology, innovation, and the abilityto reach a large customer base.

LargeCompanyEntrepreneurship-

These huge companies have defined lifecycle. Most ofthese companies grow and sustain by offeringnewand innovative products that revolve around their main products. The change in technology, customer preferences, new competition, etc., build pressure for large companies to create an innovative product and sell it to the new set of customers in the new market. To cope with the rapid technological changes, the existingorganizationseitherbuyinnovation enterprises or attempt toconstruct theproduct internally.

SocialEntrepreneurship-

This type of entrepreneurship focuses on producing product and services that resolve social needs and problems. Their only motto and goal is to work for society and not make any profits.

Oneprominentexampleofsocialentrepreneurshipin Indiaisthe"ArakuCoffee"initiative.ArakuCoffeeis a social enterprise that aims to empower tribal farmers in the Araku Valley of Andhra Pradesh and promote sustainable agriculture practices.

RiteshAgarwal-OYORooms

He dropped out of college and founded Oravel Stays, which later evolved into OYO Rooms in 2013. OYO quickly gained popularity as a tech-enabled platform that provided standardized and affordable hotel rooms to travellers in India.

1. **Innovation:**

Entrepreneurship often involves introducing new and innovative ideas, products, or services to the market. Entrepreneurs are constantly seeking ways to solve problems, meet unmet needs, or improve existing offerings.

The innovations introduced by Ritesh Agarwal and OYO Rooms disrupted the traditional budget hotel industry and democratized access to standardized and affordable accommodations. OYO's success has inspired similar startups and encouraged existing players in the hospitality sector to rethink their business models and embrace technology-driven solutions.

Standardization of Budget Hotels: OYO Rooms implemented a unique business model that focused on standardizing budget hotels. They worked closely with hotel owners to ensure that certain quality standards, amenities, and services were maintained across all OYO properties. This standardization provided travelers with a consistent and reliable experience, addressing a common issue in the budget hotel segment.

Aggregation andOnlineBooking:OYO Rooms leveraged technologyto aggregate anetworkofbudget hotelsunderitsbrand.Bycreatinganonlineplatformandmobileapp,theymadeitconvenientfor travelers to search, book, and pay for accommodations with ease. This approach significantly simplified the hotel booking process, making it more accessible to a wider audience.

Dynamic Pricing and Discounts: OYO introduced dynamic pricing, allowing room rates to adjust based on factors likedemand, seasonalvariations, and events.Thisinnovativepricingstrategyhelpedoptimize hotel occupancy and revenue while offering travelers competitive rates. Additionally, OYO provided attractive discounts and offers, making budget travel more affordable.

User Reviews and Ratings: OYO Rooms incorporated user reviews and ratings into their platform, enabling travellers to share their experiences and feedback after their stays. This feedback system helped potential customers make informed decisions about hotel bookings and motivated hotel owners to maintain service quality.

Tech-Enabled Operations: OYO Rooms integrated technology into various aspects of their operations. hotel ownersreceived technologysupport and management toolsto streamline theiroperations and

2. **Risk-taking:** Entrepreneurs are willing to take calculated risks, as starting a new venture involves uncertainty and potential challenges. They are prepared to face failure and learn from it, understanding that setbacks are part of the journey

a budget hotel chain, in 2013. He took the risk of standardizing and aggregating budget hotels, aiming to provide a consistent and reliable experience to travellers. Despite challenges in scaling the business and managing quality, OYO became one of India's largest hotel chains.

3. **Opportunity Recognition:** Identifying opportunities is a crucial aspect of entrepreneurship.Entrepreneurs have a keen eye for spotting gaps in the market or emerging trends and then capitalizing on these opportunities.

Identifying a Niche: Ritesh Agarwal recognized the untapped potential in the budget hotel segment. While there were plenty of luxury and mid-range hotels available, the budget hotel market lacked standardization and quality assurance. Ritesh saw an opportunity to address this gap and provide budget travelers with a reliable and consistent accommodation option.

Unmet Customer Needs: Ritesh identified the pain points of budget travelers who often faced challenges like uncertain quality, lack of transparency, and difficulty in finding affordable accommodations. By standardizing budget hotels and offering a seamless online booking experience, OYO Rooms addressed these customer needs effectively.

Market Potential in India:
Partnering with Hotel Owners:

FalguniNayar-Nykaa:

Falguni Nayar founded Nykaa, an e-commerce platform for beauty and cosmetic products, in 2012. She took a risk by focusing on the online sale of beauty products in a market where offline retail dominated. Nykaa's success demonstrates theimportanceofidentifying nichemarkets and taking calculated risks.

A.Innovation:

OnlineBeautyRetail: Nykaawasoneoftheearlyadoptersoftheonlinebeautyretailmodelin India. Falguni recognized the potential of e-commerce for the beauty industry and created a one-stop online destination for a wide range of beauty and cosmetic products. This innovation provided customers with the convenience of browsingand purchasingbeauty products from the comfort of their homes.

Multi-Brand and Exclusive Products: Nykaa offered a diverse selection of beauty products from various brands, making it a comprehensive platform for beauty enthusiasts. Additionally, Nykaa introduced its own range of exclusive beauty products under the brand name "Nykaa Beauty," catering to specific customer preferences and trends.

Beauty Content and Community: Nykaa invested in creating valuable content related to beauty, skincare, makeup tutorials, and product reviews. This content marketing strategy not only educated customers but also built a community of beauty enthusiasts, fostering engagement and brand loyalty.

Virtual Try-On: Nykaa introduced the "Virtual Try-On" feature, allowing customers to virtually try makeup products before making a purchase. This innovation leveraged augmented reality technology to enhance the online shopping experience and helped customers make informed choices

Nykaa Network: Nykaa introduced the Nykaa Network, an influencer marketing program that collaborated with beauty influencers and content creators. This initiative helped promote Nykaa products and brand across digital platforms and reach a wider audience.

1. **Risk-taking:**

Entering a Competitive Market: When Falguni Nayar founded Nykaa in 2012, the beauty and cosmetic industry in India was already competitive with established players. Taking on established brick-and-mortar retailers and other e-commerce platforms required boldness and conviction inher vision.

Online-Only Model: In the early 2010s, the concept of online shopping was still relatively new in India, and manyconsumerswereskepticalaboutbuyingbeautyproductsonlinewithoutphysicallyexperiencing them.Falgunitookariskbyadoptinganonline-onlymodelforNykaa, believinginthegrowthpotentialof e-commerce.

Multi-Brand Retail: Nykaa's multi-brand retail approach involved partnering with numerous beauty brandsto offer a wide range of products. This meant managing relationships with various suppliers and brands, as well as dealing with potential inventory challenges and financial risks.

Investment in Technology and Content: Falguni recognized the importance of technology and content marketing to enhance the online shopping experience for beauty enthusiasts. Investing in technology, including the development of the "Virtual Try-On" feature, and creating engaging beauty content involved financial risk.

Launching Nykaa's Private Label: Introducing Nykaa's private label involved substantial investment in research, development, and manufacturing. Falguni took a risk by launching her own beauty products under the Nykaa Beautybrand, competing with established brands in the market.

Physical Retail Expansion: After establishing Nykaa as an online beauty platform, Falguni took the risk of expanding into brick-and-mortar retail by opening physical stores. This required significant capital investment and the ability to adapt to a different business model.

NeedofEntrepreneurship:

EconomicGrowthandJobCreation:Entrepreneursarekeydriversofeconomicgrowthastheycreatenew businesses and industries. They introduce innovative products, services, and technologies thatincreaseproductivity,efficiency,andcompetitiveness.Entrepreneurialventuresgeneratejob

opportunities,reducingunemploymentratesandimprovingoveralleconomicconditions.

Elon Musk - CEO of Tesla and SpaceX: Elon Musk is known forelectric vehicle (EV) and aerospace industries. Tesla'ssuccessindevelopingandpopularizingelectriccarshasnotonlycontributedtoeconomicgrowth but also led to job creation **in the automotive and clean energy sectors.**

BrianChesky,JoeGebbia,andNathanBlecharczyk-Co-foundersofAirbnb:Airbnb'sfounders revolutionized the hospitality industry by creating a platform that allows individuals to rent out their properties to travelers. This sharing economy model has led to economic growth in the travel and accommodation sectors and provided income opportunities for hosts.

InnovationEntrepreneursareattheforefrontofinnovation.Theyidentifyunmetneeds,gapsinthe market, andemergingtrends, leadingtothedevelopmentofgroundbreakingproductsandtechnologies. This constant innovation benefits society by improving living standards, solving societal challenges, and enhancing various industries.

Steve Jobs - Co-founder of Apple: Steve Jobs is renowned for his revolutionary innovations at Apple. He played a key role in developing products like the Macintosh computer, iPod, iPhone, and iPad, which redefined their respective industries andset newstandardsfor design and user experience.

Rajat Jain - Co-founder of Naukri.com: Rajat Jain co-founded Naukri.com, one of India's leading job search portals. Naukri.com's innovative platform revolutionized the way job seekers and employers connect in the Indian job market.

Practo: Createdaplatformforonlinedoctorappointments,healthcareinformation,andmedicalrecords.
MUrgency: Developed a mobile app to connect users with medical professionals during emergencies.
AgroStar: Offers mobile-based solutions for farmers, including agricultural products and expert advice.
Skymet Weather Services: Provides hyper-local weather forecasts for farmers.
Paytm:RevolutionizeddigitalpaymentsandmobilecommerceinIndia.
PhonePe: IntroducedaUPI-baseddigitalpaymentsplatform.
Razorpay: Simplifiedonlinepaymentprocessingforbusinesses.
Byju's: Createdapopularonlinelearningplatformofferinginteractiveeducationalcontent.
Unacademy: Providesonlinecoursesandliveclassesforexampreparation.
Vedantu: Offersliveonlinetutoringandpersonalizedlearning.
Rapido: Launched a bike-sharing platform for short-distance commuting.
Ather Energy: Designed and manufactured electric scooters.
Safecity: Crowdsourcesdatatomapincidentsofsexualharassmentandviolence,promotingsaferpublic spaces

1. **ImpactonSocietyandCommunityDevelopment-**
   Entrepreneurship can address societal issues through social entrepreneurship. Social entrepreneurscreate ventures with a primary focus on making a positive impact on society or the environment. They work towards sustainability and addressing pressing challenges like poverty, healthcare, education, and environmental conservation.

OrganizationslikeTOMSShoesprovideonepairofshoestoapersoninneedforeverypairsold, addressing footwear shortages in impoverished communities.

Entrepreneurs in the edtech sector have developed platforms that make education accessible to underprivileged communities. Platforms like Khan Academy and BYJU'S offer free or affordable onlinelearning resources, enabling students in remote areas to access quality education.

2. **IncreaseStandardofLiving-**

   Standardofliving,inaway,isdirectlyproportionatetoemployment.Becauseemploymentearns people remuneration, they spend their money on purchasing goods and services. It improves their standardofliving.Hence,theconsumptionrateinaneconomygoesup,andsodoestheproduction rate.Iteventuallyincreasesbasicsalaries,andpeoplebecomeabletoconsumehigherqualitygoods and services.Entrepreneurship helps to improve the standard of living of a person by increasing the income. The standard of living means, increase in the consumption of various goods and services by a household for a particular period.

   Mobile Banking and Digital Payments: Entrepreneurs in the fintech sector have introduced mobile banking apps and digital payment platforms that have made financial transactions more accessible and convenient for millions of people. Examples include Paytm in India and M-Pesa in Kenya, which have transformed the way people manage their finances and conduct transactions.

   E-commercePlatforms: Entrepreneurs inthee-commercespacehavecreatedplatformslikeAmazon and Alibaba, which offer a vast range of products and services, enabling consumers to shop from the comfort of their homes and access a wider selection of goods at competitive prices

   Telemedicine and Remote Healthcare: Entrepreneurs in the healthcare industry have developed telemedicineplatformsthatallowpatientstoconsultwithdoctorsremotely,increasingaccessto medical care, especially in rural and underserved areas.

   OnlineEducationPlatforms: EdTechentrepreneurshavecreatedonlinelearningplatformslike Coursera, Udacity, and Khan Academy, offering a wide range of educational courses and resources to learners worldwide, democratizing education and allowing people to upskill from anywhere.

   RenewableEnergySolutions: Entrepreneursintherenewableenergysectorhavedevelopedsolar power solutions and affordable clean energy alternatives, reducing energy costs and environmental impact whileprovidingelectricitytoremoteareas.Companies liked.lightand SolarHomeareexamples of such ventures.

   Waste Management Solutions: Entrepreneurs in the waste management industry have createdinnovative recycling and waste disposal solutions, promoting sustainable practices and reducing environmentalpollution. Companies like Terracycle and Rubicon are examples of such initiatives.

3. **Supportsresearchanddevelopment-**

   ResearchandDevelopmentaretheadvancementsofinnovation.Whenan

   Newproductsandservicesneedtoberesearchedandtestedbeforelaunchinginthemarket. Therefore, an entrepreneur also dispenses finance for research and development with research institutions and universities. This promotes research, general construction, and development in the economy.

Biocon: FoundedbyKiranMazumdar-Shaw,Bioconisabiopharmaceuticalcompanythatfocuseson R&D inareas like biologics and biosimilars, contributingtoadvancementsin healthcareand medicine.

TataConsultancyServices(TCS):TCSinvestssignificantlyinR&Dtodevelopcutting-edgesoftware solutions, digital platforms, and technologies that drive the IT sector's growth.

TeamIndus: AnaerospacecompanythathasparticipatedinGoogleLunarXPRIZEandfocuseson developing space technology and lunar exploration solutions.

Forus Health: Engaged in R&Dfor affordable medicaldevices, including innovativeretinalimaging technology for eye care.

Nanoclean Global: Developed nanotechnology-based water and air purifiers to address pollution andimprove public health.

Uber - Travis Kalanick and Garrett Camp: Uber, co-founded by Travis Kalanick and Garrett Camp, has continuouslyexpandeditsservicesbeyondride-hailing.ThecompanyintroducedUberEatsforfood deliveryandUber Freightfor logistics, showcasinga commitment todiversification andinnovation.

Ola Cabs - Bhavish Aggarwal: Ola Cabs, founded by Bhavish Aggarwal, began as a ride-hailing service and expanded into other transportation verticals, such as Ola Bike and Ola Electric. The company constantly innovatesitsapp andservices toprovideaseamless and efficient experiencefor users and drivers.

Facebook-MarkZuckerberg:MarkZuckerberg'sFacebookhasevolvedsignificantlysinceitsinception, withcontinuous updatesand additions to the platform. From the introduction offeatureslike News Feed and Messenger to acquisitions like Instagram and WhatsApp, Facebook continues to innovate to enhanceuser engagement.

CharacteristicsofEntrepreneurship:

Not all entrepreneurs are successful, there are definite characteristics that make entrepreneurshipsuccessful. A few of them are mentioned below:

- **Innovation-** It shouldbehighlyinnovativetogeneratenewideas,startacompanyandearnprofitsout ofit.Changecanbethelaunchingofanewproductthatisnewtothemarketoraprocessthatdoes the same thing but in a more efficient and economical way.

- **Abilitytotakearisk-** Startinganynewventureinvolvesaconsiderableamountoffailurerisk. Therefore, an entrepreneur needs to be courageous and able to evaluate and take risks, which is an essential part of being an entrepreneur.
- **Visionary and Leadership quality-** To be successful, the entrepreneur should have a clear vision of hisnewventure.However,toturntheideaintorealityalotofresourcesandemployeesarerequired. Here, leadership quality is paramount because leaders impart and guide their employees towards theright path of success.
- **Open-Minded-** In a business, every circumstance can be an opportunity and used for the benefit of a company.Forexample,Paytmrecognisedthegravityofdemonetizationandacknowledgedtheneed for online transactions would be more, so it utilised the situation and expanded massively during thistime.

- **Flexible-** Anentrepreneurshouldbeflexibleandopentochangeaccordingtothesituation.Tobeon thetop,abusinesspersonshouldbeequippedtoembracechangeinaproductandservice,asand when needed.
- **Know your Product-**A company owner should know the product offerings and be aware of the latesttrend in the market. It is essential to know if the available product or service meets the demands of the current market, or whether it is time to tweak it a little. Being able to be accountable and then alter as needed is a vital part of entrepreneurship

Examplesof failuresduetoLackofInnovation

1. **HMT Watches**: Hindustan Machine Tools (HMT) was a well-known Indian watch brand that dominatedthe market in the 1980s. However, the company failed to innovate and adapt to changing consumer preferences and the influx of foreign watch brands. With the advent of digital watches and modern designs, HMT Watches lost its market share and eventually shut down its watch manufacturingoperations in 2016
2. **Kodak India:** Kodak was a renowned name in the photography industry worldwide, including in India. However, with the emergence of digital photography and smartphones, Kodak failed to innovate and adapt to the shift from film to digital media. The company's traditional film-based business modelbecame obsolete, leading to its decline and eventual bankruptcy.
3. **Micromax:** Micromax was once a leading Indian smartphone manufacturer, known for its affordable devices. However, the company faced stiff competition from Chinese smartphone brands offering more innovativeandfeature-richproducts.Micromax'sfailuretoinvestinresearchanddevelopmentand offer differentiated features resulted in a decline in its market share and relevance.
4. **Nokia:**Nokiawasonce aleadingmobilephonemanufacturer,knownforitsdurableandreliable devices. However, the company failed to keep up with the rapid advancements in smartphones andtouch-screen technology. Nokia's lack of innovation in the smartphone market caused it to losesignificant market share to competitors like Apple and Samsung.
5. **MySpace:**MySpace was one of the first popular social networking platforms, boasting millions of users. However,thecompanyfailedtoinnovateandadapttothechangingpreferencesofitsusers, particularlywhenFacebookemergedas amoreuser-friendlyandfeature-rich platform.MySpace's failure to evolve led to a significant decline in its user base.

Examplesof**Abilitytotakearisk**

1. **DrewHouston:Dropbox**

   If you're one of the millions who use Dropbox, you can thank Drew Houston for taking some big risks. HoustonwasanMITstudenttiredofhaulingaroundUSBsticksandemailinghimselfdocumentsto share information across computers. After showing up unannounced at the coveted startup hub, YCombinator, and being sent home dejected, Houston went on a mission to secure a co-founder and properly apply to the YCombinator. Houston started Dropbox in 2007 and a mere four years later, Dropbox caught the attention of Apple co-founder Steve Jobs who personally let Houston know that he was coming to take over the Dropbox market with his iCloud service. Houston didn't sell to Apple and instead built a company now valued at more than $1 billion.

ExamplesofVisionaryandLeadershipquality

1. **KingfisherAirlines(VijayMallya):**KingfisherAirlineswasfoundedbyentrepreneurVijayMallyawith the vision of creating a luxury airline experience. However, the venture faced numerous challenges, including financial mismanagement, mounting debt, and operational issues. The lack of effective leadership in managing these challenges led to the airline's eventual shutdown.

2. **SaharaIndiaPariwar(SubrataRoy):**SaharaIndiaPariwarfacedchallengesduetotheleadershipstyle of its founder, Subrata Roy. His extravagant vision and aggressive expansion strategies resulted infinancialdifficultiesandregulatoryissuesfortheconglomerate.Thelackofpropercorporate governance andvisionary leadership ledto legal battles and a loss of investor confidence.

ExamplesofEntrepreneurshiprevivedduetoFlexible

1. **Netflix:** Netflix originally started as a DVD rental-by-mail service. However, the company recognized the changinglandscapeofmediaconsumptionandtheriseofonlinestreaming.Withgreatflexibility, Netflix shifted its focus to digital streaming, offering a vast library of movies and TV shows on-demand. This shiftallowed themtobecomeadominantplayerinthestreaming industryandrevolutionizethe way people watch entertainment content.
2. **Apple Inc.:** In the late 1990s, Apple was facing significant challenges and declining market share. When Steve Jobs returned as CEO, he brought a flexible approach to the company's product line. Under his leadership, Apple shifted its focus from just computers to a broader range of consumer electronics, includingthe iPod, iPhone, and iPad.This shift to a more diverse and innovativeproduct lineup revitalized Apple and made it one of the most valuable companies in the world.
3. **Marvel Studios:** Before its acquisition by Disney, Marvel Studios faced financial struggles and declining comic book sales. The studio embraced flexibility by taking control of its own film productions, starting with the release of "Iron Man" in 2008. Marvel Studios shifted its focus to creating a shared cinematic universeandproducinghigh-qualitysuperherofilms.Thisflexibleapproachledtoimmensesuccess, with the Marvel Cinematic Universe becoming a global phenomenon.
4. **Domino'sPizza:**Domino'sPizzafaceddecliningsalesandanegativereputationforitspizzaqualityin theearly2000s.Thecompanyshowedflexibilitybylisteningtocustomerfeedbackandacknowledging its shortcomings. Domino's initiated a "turnaround" campaign, where they openly admitted their pizza needed improvement. With a commitment to change and innovation, they revamped their menu and pizza recipes, leading toa significant revivalin their sales and customer satisfaction.

<u>TypesofEntrepreneurs</u>

1. SmallBusinessEntrepreneurs

Theseareusualbusinessownerswhoinnovateandtakemorethannormalrisks.Often,these entrepreneurs do not disrupt the entire industry, but they do make a name for themselves and their businesses.

Theyaredifferentfromusualbusinessownersconsideringtheirinnovativemindsetandrisk-taking attitude.

2. ScalableStartupEntrepreneurs

Astartupisabusinessstructurepoweredbydisruptiveinnovation,highscalability,andextreme uncertainty.

Entrepreneurs behind startups are true disruptors that often change the traditional industries. These entrepreneurs are highly innovative but often bear a very high financial risk as they are accountable to investors for millions of dollars invested.

3. LargeCompanyEntrepreneurs

Alsocalledintrapreneurs,theseentrepreneursactuallyperformthejobofanentrepreneurwithina company.

Precisely–

Anintrapreneurisanemployeewithentrepreneurshipskillswhoisgiventheresponsibilityandauthority to use those skillsto develop anew product without incurringthe risks associated with it.

Thatis,iftheproductfails,thecompanywilltakecareofit.

Intrapreneurs are half entrepreneurs – they do innovate and develop new offerings, businesses, initiatives,etc. but they get salaries in return, and theydo not bear all the risks of failures.

4. SocialEntrepreneurs

Socialentrepreneursareindividualswhoinnovateanddevelopan offering,entity, orbusinesstohelp solve a social problem. They are driven by a social objective and are not money-minded.

FunctionsofanEntrepreneur–

An entrepreneur frequently must wear many hats. He must perceive opportunity, plan, organize resources, and oversee production, marketing, and liaison with officials. Most importantly he must innovate and bear risk.

Themainfunctionsofanentrepreneurare

1. Decision Making 2. Management Control 3. Division of Income 4. Risk-Taking and Uncertainty-Bearing 5. Innovation.

1. DecisionMaking

The primary task of an entrepreneur is to decide the policy of production. An entrepreneur is to determine what to produce, how much to produce, how to produce, where to produce, how to sell and' so forth. Moreover, he is to decide the scale of production and the proportion in which he combines the different factors he employs. In brief, he is to make vital business decisions relating to the purchase of productive factors and to the sale of the finished goods or services.

2. ManagementControl

Earlier its used to consider the management control is one of the chief functions of the entrepreneur. Management and control of the business are conducted by the entrepreneur himself. So, the Entrepreneur mustpossessahighdegreeofmanagementabilitytoselecttherighttypeofpersonstoworkwithhim. But,theimportanceofthisfunctionhasdeclined,asbusinessnowadaysismanagedmoreandmoreby paid managers.

3. DivisionofIncome

The next major function of the entrepreneur is to make necessary arrangement for the division of total incomeamongthedifferentfactorsofproductionemployedbyhim.Evenifthereisalossinthebusiness, heis to payrent, interest,wages, and othercontractual incomes outof therealized saleproceeds.

4. Risk-Taking

It is the most important and specific function of an entrepreneur. Every business involves some amount of risk.

The production of goods and services is always related to future demands. The future demand is uncertain andunpredictable, because itisinfluenced bythe changesin fashion ortasteandliking oftheconsumers.

The price structure, value of money, climatic conditions and government policies are some other important factorsthataffectthedemandofacommodity.Allthesefactorsarevariableandassuchanexact estimation of future demand is a difficult exercise to work o:

Since this unpredictable task is undertaken by the entrepreneur, he has to bear the risk. If his estimations provetobewrong,thenintheentirebusinesssphere,nootherfactorofproductionsharestheloss incurred by the entrepreneur.

Broadly,therearetwokindsofriskwhichhemustface.Firstly,therearesomerisks,suchasrisksoffire, loss of goods in transit, theft, etc., which can be insured against. These are known as measurable and insurablerisks.Secondly,somerisks,however,cannotbeinsured againstbecausetheirprobabilitycannot be calculated accurately. These constitute what is called uncertainty (e.g., competitive risk, technical risk, etc.).

5. Innovation.

Innovation is one of the most important functions of an entrepreneur. An entrepreneur uses information, knowledge, and intuition to come up with new products, new methods of reducing costs of a product, improvement in design or function of a product, discovering new markets or new ways of organization of industry. Through innovation, an entrepreneur converts a material into a resource or combines existing resources into new and more productive configurations.

It is the creativity of an entrepreneur that results in invention (creation of new knowledge) and innovation (application of knowledge to create the new products, services, or processes).

Barriersinentrepreneurship

1. **Finances**

   A great barrier that arises while starting a new business is managing the finances that can make things difficult for the entrepreneurs. There are lots of ideas that come to the entrepreneurs' minds but convertingthoseideasintothebusinessneedsenoughamountoffinance.Thereshouldbea **stable and regular source of finance** to keep the production process smooth. If this first and the most critical barrier can be solved easily then the future barriers can also be tackled.

2. **FearofFailure**

   Togettheprofit,anentrepreneurhastobearsomesortofriskalsoanditistheentrepreneurs' capacity of bearing the risk which decides the amount of profit that the business can earn. So, it can be said that it is the state of mind which helps an entrepreneur in getting a clear vision so that the risk canbe faced without fear. But when a new venture is set up then there is always a fear about the arrangementofinitialfunds,investors,andmanyotherthings.Thisfearcreatespressureontheminds of the entrepreneurs and increases their tension of being failed. The fear of failure can become a huge barrierin starting anew business or runningit smoothly.So it'sall up to the attitudeof the entrepreneurs how they deal with their fear and overcome it to become successful.

3. **InadequateMarketExperience**

One of the most common barriers that are faced by many entrepreneurs is not having adequate knowledge about the respective field of their business. An entrepreneur must have enough experience relatedtotheindustrybyworkingintherequiredsector.So,beforestartinganewventure,itis requiredtocollectenoughknowledgeaboutthemarketconditions,natureofthebusinessfirm, demandandsupplyofthatparticulargoodorservice,etc.,insteadofrushingintothebusinessby seeing the success of others.

4. **HumanResourceProblem**

A person cannot perform all the tasks by himself/herself even if he/she has enough knowledge. In the samemanner,anentrepreneurcannotdoallthejobsalonetoruntheorganization.Abusinessneeds to have a strong base of skilled and knowledgeable human resources or employees. Employees are the most important assets for an organization. They help in the growth of the business. The organizationsmay have similar fixed and current assets but these are the human assets that make the organization different from its competitors. But for this purpose, the employees must be enough experienced and dedicated tothe organization sothat top-level productivity and efficiency can be achieved.

5. **Corruptandunsupportivebusinessenvironment**

One of the most common problems with a business especially with new ventures is the corrupt environment. If the environment of the country is corrupt then it does not inspire the young employees andentrepreneurs.Inmanycountriesorregions,theunhealthyandnon-supportivegovernment creates lots of issues. That's why it is suggested to check out the regulations and stringent compliance before starting a new venture. This corruption of the government can become a major hurdle in the success of a business ona pretty higher level. So,an entrepreneurneeds to take things seriously.

Complex and cumbersome regulations, licensing requirements, and compliance procedures can create barriers for entrepreneurs, especially in highly regulated industries.

6. **LackofCapacity**

Even if thereare opportunitiespresent to the aspiring entrepreneurs, thereis a lack of capacityissomeofthemtoembracetheopportunitieswithopenarms.Thereasoncanvaryfromlackofknowledge, lack of education, lack of willingness, lack of strategic knowledge, and cultural hindrances amongstothers, But the factor of motivation and zeal gets missing

To start a new business venture amidst all the risks and market-related issues, It requires a lot of hard work, passion, and high capacity to handle all of it.

7. **LackofPracticalknowledge**

Manyyoungstersbelievethatanentrepreneurmusthaveanadequateeducationalbackgroundto make the business successful, but the reality is completely different. Most of the schools and colleges focus on bookish knowledge instead of providing practical knowledge to the students. Everyentrepreneurmayhavethesamebookishknowledgebutitistheirpracticalknowledgethatmakes themuniqueinthishighly competitive market. Lackofthispractical knowledge canalsobecomea barrier in the path to the success of a business.

8. **Non-strategicPlanning**

Havinginadequateplanningregardingstrategiescanalsocreateagreatbarrierinthepathofsuccess

havingalong-termvisionandplan.Badstrategiesandplanningmayleadtothefailureofthebusiness or can cause a huge loss to the business. It is the prime reason why most entrepreneurs give up in thefirst year of business operation.

9. **LackofMotivation**

   The biggest motivation for any business is Money. When an entrepreneur starts a business then it takes sometimetomakethemarketvalueofthebusiness.Duringthisperiodtheprofitearnedbythe businessisnotsohighwhichmayreducethemotivationoftheentrepreneuraswellasofthe employees of the organization. Other than this, failure of a project can also affect the motivation of the employees and the owner. In such cases, it is a must for the whole organization to have some patience and be motivated to achieve future growth and profit.

10. **FewOpportunities**

    When a new business is started, there are very fewer opportunities available for the entrepreneur. It is alsonoteasyforanentrepreneurtofigureouttheselimitedopportunitiesinthebeginning.Toget more opportunities, a business must start growing. Limited opportunities can be a hurdle to entrepreneurship. There is almost zero possibility of being successful without having opportunities. Opportunity is also one of the major factors of SWOT analysis.

Entrepreneurs'vsManagers

An **entrepreneur** is a person withtheskills,ideas, and courage to takerisks topursuea business idea.A **manager** is a person who manages the functions and operations of an organization. The significant difference between an entrepreneur and a manager is their role in an organization.

Anentrepreneurownsacompany,whileamanageristhecompanyemployee.
An entrepreneur is a risk taker who takes financial risks for the enterprise. A manager does not take risks and tries to maintain the status quo of the enterprise.

WhoisanEntrepreneur?

An entrepreneur is an individual who identifies opportunities, takes the initiative, and assumes the risks involved in starting, managing, and growing a business or venture. Entrepreneurs are driven by a vision to create something new or innovate in various fields, such as technology, products, services, or social initiatives. They play a crucial role in driving economic growth, job creation, and fostering innovation in society

WhoisaManager?

A manager, on the otherhand, isnot an ownerofan enterprise. Instead, he is the one that isresponsible for the management and administration of a group of people or a department of the organization. His dayto day job is to manage his employees and ensure the organization runs smoothly

Entrepreneur vs Manager	
Entrepreneur	**Manager**
Entrepreneur is visonary and bears all financial risks.	Manager works for salary, and does not have to bear any risks.
Focuses on starrting and expanding the business ideas	Focus on daily smooth functioning of business
Key motivation for Entrepreneur is achievments	Mangers motivation comes from the power that comes with their position
Reward for all the efforts is profit he earns from the enterprise	Remuneration is the salary he draws from the company
Entrepreneur can be informal and casual	Manager's approach to every problem is very formal

DifferencebetweenEntrepreneurandManager

1. **RoleandOrigin:**

Entrepreneur: Anentrepreneuristheinitiatororfounderofabusiness venture. Theytaketherisktostart a new business or launch a new product/service, identifying opportunities and pursuing innovative ideas.
Manager: A manager is someone who oversees the day-to-day operations of an existing business or organization. They are responsible for implementing established strategies and managing resources to achieve specific goals.

2. **Risk-Taking:**

Entrepreneur: Entrepreneurs are inherently risk-takers. They are willing to invest time, money, and effort into new ventures with the hope of achieving substantial returns. They bear the risk of potential business failure.
Manager: Managers, while making decisions, tend to be more risk-averse. Their primary concern is toensure the stability and efficiency of the organization and minimize risks that could disrupt the established operations.

3. **VisionandCreativity:**

Entrepreneur: Entrepreneurs are visionary and creative. They have a strong imagination and are often driven by a desire to create something new or solve a problem in a unique way.
Manager: Managers typically focus on executing existing strategies and optimizing processes within the established framework. While they may have innovative ideas, their main role is to implement and manage existing plans.

4. **Decision-Making:**

Entrepreneur: Entrepreneurs make strategic decisions for the overall direction of the business. They set long-term goals, identifynew markets, and determine the company's growth trajectory.
Manager: Managers make operational decisions. They implement policies, allocate resources, and ensure day-to-day tasks are completed efficiently to achieve the organization's objectives.

5. **FlexibilityandAdaptability:**

Entrepreneur: Entrepreneurs need to be adaptable to changing circumstances and be able to pivot quickly when faced with challenges or new opportunities.

Manager: While managers also require some level of adaptability, they typically operate within a more structured framework and established business model.

6. **TimeHorizon:**

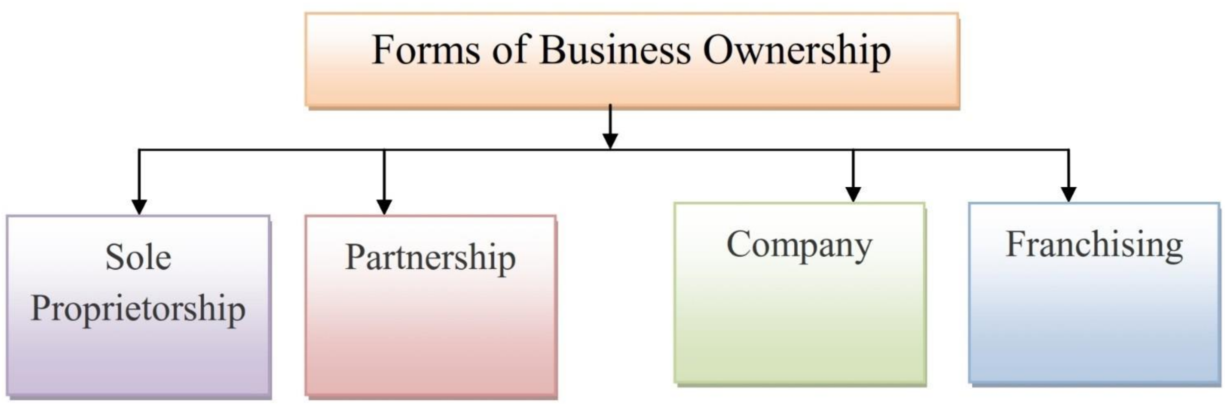
Entrepreneur: Entrepreneurs often have a longer time horizon for their ventures. They may be willing to endure initial losses or lower profits in the short term to achieve significant growth and success in the future.
Manager: Managers'focusisonmeetingshorttomedium-termgoalsanddeliveringconsistentresults.

7. **Growthvs.Stability:**

Entrepreneur: Entrepreneurs are primarily concerned with growth and expansion. They seek to scale their businesses and capture new market opportunities.
Manager: Managers prioritize stability and efficiency, aiming to maintain the organization's current operations and market position.

Forms of Business Ownership: Sole proprietorship, partnership forms and othersWhat is Business Ownership?

Business ownership refers to the legal and financial rights and responsibilities that an individual or group of individuals (entities) have in relation to a business. It encompasses the degree of control, decision-making authority,liabilityfordebtsandobligations,andtheentitlementtotheprofitsgeneratedbythebusiness. In simplerterms, business ownership is about who owns and controls abusiness entity.



SoleProprietorship

A sole proprietorship is one of the simplest and most common forms of business ownership. In a sole proprietorship, a single individual owns and operates the business as an individual entity. This individual is referred to as the "sole proprietor."

AdvantagesofSoleProprietorship:

1. **Easy Formation:** Setting up a sole proprietorship is usually straightforward and involves minimal legal formalities and costs. This makes it an attractive option for individuals starting small businesses.
2. **Direct Control:** The sole proprietor has complete control over all aspects of the business. They can make decisions quickly and implement changes withoutthe need for extensive consultations.
3. **Flexibility:** Sole proprietors have the flexibility to adapt their business strategies and operations to changing market conditions without the need to consult partners or shareholders.
4. **Direct Profits:** All profits generated by the business belong to the sole proprietor. There is no needto share the earnings with partners or shareholders.

5. **Simple Taxation:** Income and expenses of the business are usually reported on the owner'spersonal income tax return, simplifying the tax filing process compared to more complex business structures.
6. **Low Operating Costs:** Operating costs can be relatively low since there are no partners or shareholders to consult with, and the business structure itself is uncomplicated.

DisadvantagesofSoleProprietorship:

1. **Unlimited Liability:** The owner has unlimited personal liability for the business's debts and obligations. This means that personal assets, such as the owner's home and savings, can be at riskin the event of business losses or legal issues.
2. **Limited Resources:** Sole proprietors may face challenges in raising capital or obtaining financing for business growth due to limited personal resources.
3. **Limited Expertise:** The owner might lack expertise in certain areas, such as marketing, finance, or operations, which could hinder the business's potential for growth.
4. **Limited Growth Potential:** The business's growth may be constrained by the owner's capacity to handle all aspects of the business on their own.
5. **Lack of Credibility:** Sole proprietorships might not be perceived as stable or credible as larger corporate entities by certain clients or partners.
6. **Succession Issues:** Unlike corporations or LLCs, sole proprietorships do not have a built-in structure for transferring ownership,whichcan lead todifficulties when transitioningthebusiness to someone else.

Partnership

A partnership is a form of business ownership where two or more individuals or entities come together to jointly operate a business for the purpose of making a profit. Partnerships are established through a legal agreement known as a partnership agreement. This agreement outlines the terms and conditions of the partnership, including the roles, responsibilities, and contributions of each partner.

GeneralPartnership(GP):

- Inageneralpartnership,allpartnershaveequalrightsandresponsibilitiesinmanagingthebusiness.
- Partners share profits, losses, and decision-making authority based on the terms outlined in the partnership agreement.
- Partnersalsohaveunlimitedliabilityforthepartnership'sdebtsandobligations.

LimitedLiabilityPartnership(LLP):

- Partners have limited liability for the debts and obligations of the partnership, similar to shareholdersof a corporation.
- Partnerscanactivelyparticipateinmanagementwhileenjoyingliabilityprotection.
- LLPsareoftenusedbyprofessionalssuchaslawyers,accountants,andconsultants.

AdvantagesofPartnershipFirm:

1. **Shared Expertise & Responsibilities:** Partners bring diverse skills, knowledge, and expertise to the business, which can enhance decision-making and problem-solving.

And can divide the workload and responsibilities, allowing each partner to focus on their strengths and areas of expertise.

2. **Capital Pooling:** Partners can contribute varying amounts of capital to the business, increasing the overall funds available for investment and growth.

3. **Easy Formation:** Establishing a partnership usually involves less legal complexity and lower costs compared to corporations or other business forms.
4. **Shared Risk:** Partners share both profits and losses, reducing the financial burden on each individual partner in case of business setbacks.
5. **Taxation:** Profits and losses are usually passed through to partners and reported on their individual tax returns, avoiding the issue of double taxation faced by corporations.

DisadvantagesofPartnershipFirm:

1. **Unlimited Liability:** Partners in a general partnership have unlimited personal liability for the business's debts and obligations, which can put their personal assets at risk.
2. **Shared Decision-Making:** Differences in opinions and decision-making styles among partners can leadto conflicts and delays in implementing decisions.
3. **Liability for Partners' Actions:** Partners can be held liable for the actions and misconduct of other partners, potentially affecting partners who were not directly involved.
4. **Dependency on Partners:** The business's success can be influenced by the contributions, commitment, and performance of each partner.
5. **Lack of Continuity:** Partnerships might face disruption if a partner decides to leave or if there is a change in partnership structure.

Company

PrivateLimitedCompany(Pvt.Ltd.):

- Aprivatelimitedcompanyisaseparatelegalentityownedbyshareholders.
- Shareholders'liabilityislimitedtothevalueoftheirshares,protectingpersonalassets.
- Thenumberofshareholdersisusuallylimited,andsharesarenotpubliclytraded.
- Itrequiresaminimumnumberofdirectorsandshareholderstobeincorporated.
- Financialinformationisgenerallymoreprivatethaninpubliclytradedcompanies.

PublicLimitedCompany(Ltd.):

- Apubliclimitedcompanyofferssharestothepublicandcanbelistedonstockexchanges.
- Shareholders'liabilityislimitedtothevalueoftheirshares.
- Ithasmorestringentregulatoryrequirementsandreportingobligationsduetoitspublicnature.
- Publiccompaniescanraisesignificantcapitalbyissuingsharestothepublic.

Franchising

Franchisingisabusinessmodelthatinvolvesacontractualarrangementbetweenafranchisor(the business owner or company granting the franchise) and a franchisee (the individual or entity receiving the franchiserights).Thefranchiseeisgrantedtherighttooperateabusinessusingthefranchisor's established brand, business model, products, and services. In return, the franchisee pays fees and royaltiesto the franchisor.

BusinessFormatFranchise:

- This is the most common form of franchise, where the franchisee receives a complete package of support, including the brand, products, services, marketing materials, operational procedures, and training.
- The franchisee operates the business according to the franchisor's established guidelines and standards.

ProductFranchise:

- In a product franchise, the franchisee is authorized to sell the franchisor's products or services, often with limited support beyond the supply of products.
- The franchisee is responsible for the retail or distribution of the products and might have more flexibility in how they operate.

Typesofindustryconcept

Therearefourtypesofindustry.Thesearеprimary,secondary,tertiary,andquaternary.

1. **PrimaryIndustry:**

Primary industries involve the extraction and collection of natural resources directly from the environment.
Examples: Agriculture, fishing, forestry, mining.

2. **SecondaryIndustry:**

Secondary industries involve the processing and transformation of raw materials into finished goods.
Examples: Manufacturing, construction.

3. **TertiaryIndustry:**

Tertiary industries provide services rather than goods, focusing on meeting the needs and preferences of consumers.
Examples:Retail,healthcare,education,hospitality.

4. **QuaternaryIndustry:**

Quaternary industries involve the creation, processing, and dissemination of information and knowledge-based services.
Examples:Informationtechnology,researchanddevelopment,education.

ConceptofStart-ups

WhatisaStartup?

Startupsareyoungcompaniesfoundedtodevelopauniqueproductorservice,bringittomarketand make it irresistible and irreplaceable for customers. Rooted in innovation, a startup aims to remedy deficiencies of existing products or create entirely new categories of goods and services, disrupting entrenched ways of thinking and doing business for entire industries. That is why many startups are known within their respective industries as “disruptors.”

HowDoesaStartupWork?

On a high level, a startup works like any other company. A group of employees work together to create a product that customers will buy. What distinguishes a startup from other businesses, though, is the way a startup goes about doing that. Regular companies duplicate what’s been done before. A prospective restaurant ownermayfranchiseanexistingrestaurant.That is,theyworkfroman existingtemplateofhow a business should work.

HowAreStartupsFunded?

Startupsgenerallyraisemoneyviaseveralroundsoffunding:

- There is a preliminary round known as **bootstrapping**, when the founders, their friends and family invest in the business.
- After that comes **seed funding** from so-called “angel investors,” high-net-worth individuals who investin early-stage companies.
- Next, there are **Series A, B, C and D** funding rounds, primarily led by venture capital firms, which invest tens to hundreds of millions of dollars into companies.
- Finally, a startup may decide to become a public company and open itself up to outside money **via an IPO**, an acquisition byaspecialpurpose acquisition company (SPAC) ora direct listing on a stock

exchange. Anyone can invest in a public company, and the startup founders and early backers can sell their stakes to realize a big return on investment.

HowDoStartupsSucceed?

While many startups will ultimately fail, not all do. For a startup to succeed, many stars must align and crucial questions be answered.

- **Is the team obsessively passionate about their idea?**It is all in the execution. Even an outstanding concept can fail to engage itsaudience if the team is not ready todo everything to support it.
- **Do the founders have domain expertise?** The founders should know everything about the space in which they operate.
- **Are they willing to put in the time?** Early startup employees often have intense work schedules. A 2018 survey found that startup owners log 14-plus-hour workdays. If a team is not willing to devote most of their waking hours to an idea, it may struggle to thrive.
- **Why this idea and why now?** Is this a new idea, and if so, why haven't people tried it before? If it is not, what makes the startup's team uniquely able to crack the code?
- **How big is the market?** The size of a startup's market defines the scale of its opportunity. Companies that obsess over niche technology may outcompete their rivals, but to what end? Too small of markets may lead to financials that are not large enough to survive.

EntrepreneurialsupportagenciesatNational,State,DistrictLevel(Sources):

DIC- District Industries Centers (DICs) provide full assistance to the **entrepreneurs** who are going to start the business on their own and in their regional places ....These **DIC** programs can take over the responsibilitiesinordertopromotecottageandsmall-scaleindustriesatdistrictleveleffectively.

NSIC- NSIC stands for the National Small Industries Corporation Limited. It is a government-owned enterprise under the Ministry of Micro, Small and Medium Enterprises (MSME) in India. NSIC's role is to support the growth and development of MSMEs by providing them with various services that address their needs and challenges. The organization collaborates with financial institutions, government agencies, industryassociations,andotherstakeholderstocreateanenablingenvironmentforthesustainable growth of MSMEs in India.

OSIC- The Odisha Small Industries Corporation Ltd. (OSIC) is a government-owned corporation establishedin the Indian state of Odisha with the primary objective of promoting and supporting the growth of micro, small, andmediumenterprises(MSMEs)withinthestate.OSICplaysavitalroleinprovidingvarious services, facilities, andsupportmechanismstoassistMSMEsinOdishatothriveandcontributetothe state's economic development.

SIDBI,whichstandsforSmallIndustriesDevelopmentBankofIndia,isafinancialinstitutioninIndiathat is dedicated to the promotion, financing, and development of micro, small, and medium enterprises (MSMEs). It was established in 1990 as an autonomous development finance institution under the Ministryof Finance, Government of India. SIDBI plays a significant role in supporting the growth of MSMEs by providing various financial and non-financial services.

NABARD is a Development Bank with a mandate for providing and regulating credit and other facilities for the promotion and development of agriculture, small-scale industries, cottage and village industries, handicrafts and other rural crafts and other allied economic activities in rural areas witha viewtopromoting

KVIC, which stands for Khadi and Village Industries Commission, is a statutory organization in India that operates under the Ministry of Micro, Small and Medium Enterprises (MSME). Established in 1956, KVIC is responsible for promoting and developing khadi and village industries across rural and semi-urban areas. Khadirefers to handspunandhandwovencloth,while village industriesencompass a range ofsmall-scale economicactivitiesthatgenerateemploymentandsupportrurallivelihoods.

TechnologyBusinessIncubators(TBI)

A Technology Business Incubator (TBI) is a specialized program or facility designed to support the growth and development of technology-based startup companies. TBIs offer a range of resources, services, and support to help early-stage technology startups overcome challenges and increase their chances ofsuccess. These programs are usually initiated and managed by universities, research institutions, government agencies, or private organizations with the goal of fostering innovation and economic development in a region.

KeyfeaturesofTechnologyBusinessIncubatorsinclude:

1. **Physical Infrastructure:** TBIs typically provide startups with physical workspace, including office spaces, laboratories, and sometimes even manufacturing facilities. This helps startups access necessary infrastructure without the high costs associated with setting up their own facilities.
2. **Mentorship and Networking:** TBIs often connect startups with experienced mentors, industry experts, and successful entrepreneurs. This mentorship can help startups refine their business strategies,develop their products, and navigate challenges effectively. Additionally, TBIs facilitate networking opportunities with investors, potential partners, and customers.
3. **Business Support Services:** TBIs offer various business support services such as legal advice, intellectual property protection, market research, business plan development, and assistance with funding applications. These services help startups build a strong foundation for growth.
4. **Access to Funding:** Many TBIs provide access to funding opportunities, either through their own investment funds or by connecting startups with angel investors, venture capitalists, and government grants. Thisfinancial support is crucial for startups tocoverexpenses andachieve keymilestones.
5. **Training and Workshops:** TBIs often organize workshops, seminars, and training sessions on various topics such as entrepreneurship, product development, marketing, and sales. These educational opportunities help founders and their teams enhance their skills and knowledge.
6. **Incubation Period:** Startups typically go through a defined incubation period within the TBI, during which they receive intensive support. This period can vary in duration, but the goal is to help startups reach a level of maturity where they can operate independently and sustainably.
7. **Collaboration and Research:** TBIs often have connections with academic and research institutions. This allows startups to collaborate on research projects, access cutting-edge technologies, and leverage academic expertise.
8. **ExitStrategies:**Successfulstartupseventually"graduate"fromtheTBIwhentheyhaveachieved certain milestones, such as securing significant funding, generating revenue, or reaching a specific levelof growth. At this point, they leave the incubator and continue to grow on their own.

Objectives

These objectives vary depending on the specific TBI and the ecosystem in which it operates, but some common objectives include:

1. **Promoting Innovation:** TBIs aim to encourage the development of innovative technologies and solutions. They provide a supportive environment where startups can explore new ideas, experiment with emerging technologies, and create products or services that address market needs.
2. **FosteringEntrepreneurship:**TBIssupportaspiringentrepreneursbyprovidingthemwiththe resources, mentorship, and guidance needed to turn their innovative ideas into viable businesses. They help individuals navigate the complexities of starting and running a business.

3. **Creating Jobs and Economic Growth:** By nurturing startups, TBIs contribute to job creation and economic development in the local community and beyond. Successful startups often hire employees, invest in infrastructure, and contribute to the overall economic landscape.
4. **Supporting Commercialization of Research:** Many TBIs have ties to universities and research institutions. They help researchers and academics take their research findings and innovations to the market by providing the necessary business acumen and support.
5. **Enhancing Technology Transfer:** In cases where TBIs are associated with research institutions, they facilitate the transfer of technology from academic and research environments to the commercial sector. This helps bridge the gap between academia and industry.

Criteriaforselectionoflocation

Theselection ofalocation for aTechnologyBusiness Incubator(TBI)involvescarefulconsiderationof variousfactorsthat canimpact thesuccessandeffectivenessoftheincubator.While thespecificcriteria may vary based on the goals of the TBI and the local context, some common criteria for selecting a location include:

1. **Proximity to Research Institutions and Universities:** TBIs often benefit from being located near research institutions, universities, and academic centers. This proximity facilitates collaboration, knowledge transfer, and access to research expertise.
2. **Access to Talent:** A location with a pool of skilled professionals, including technical experts, entrepreneurs, mentors, and industry specialists, is essential for supporting startups and fostering a vibrant ecosystem.
3. **Availability of Funding Sources:** Proximity to potential investors, venture capital firms, angel investors, and government funding agencies can improve startups' access to funding for their growth.
4. **Industry Clusters and Ecosystem:** Being situated in or near established industry clusters related to the startups' focus areas can provide access to potential customers, partners, suppliers, and a supportive ecosystem.
5. **Infrastructure and Facilities:** The availability of suitable physical infrastructure, such as office spaces, laboratories, prototyping facilities, and meeting rooms, is crucial for startups' operations.
6. **Networking Opportunities:** A location that offers networking events, conferences, meetups, and industry gatheringscan facilitate interaction among startups, mentors, investors,and experts.

ThrustAreas

The thrust areas of a Technology Business Incubator (TBI) refer to the specific sectors, industries, or technology domains in which the TBI focuses its efforts and resources to support startups. ThethrustareasforaTBIwouldbeidentifiedbasedonthefollowing:

1. ExpertiseandfacilitiesavailableintheHI
2. TrackrecordoftheHIinthechosenareas
3. Industrialclimateintheregion
4. Marketpotential/demandintheregion

To begin with, TBIs are proposed to be promoted in following selected thrust areas which have potential for faster growth:

1. **Information Technology and Software:** Supporting startups in fields such as software development, mobile apps, cybersecurity, artificial intelligence, data analytics, and cloud computing.
2. **Healthcare and Medical Technologies:** Supporting startups developing medical devices, telemedicine solutions, healthtech apps, and healthcare innovations

3. **Advanced Manufacturing:** Assisting startups in areas like 3D printing, robotics, automation, additive manufacturing, and smart manufacturing.
4. **Agriculture and Agtech:** Focusing on startups in agriculture technology, precision farming, agritech, and innovations in sustainable agriculture.
5. **Clean Energy and Sustainability:** Supporting startups working on renewable energy solutions, energy efficiency, waste management, and sustainable technologies.
6. **IoT (Internet of Things):** Supporting startups working on connected devices, IoT platforms, sensor technology, and smart city solutions.

Facilitiesrequired

TechnologyBusiness Incubators (TBIs)require arange offacilities toeffectivelysupportstartupsandfoster aconduciveenvironmentforinnovationandentrepreneurship.Thespecificfacilitiesneededcanvary based on the focus areas of the TBI, the services offered, and the needs of the startups. However, here are some common facilities required for a TBI:

1. Modernworkspace
2. Communicationfacilities
3. Computingfacilities
4. Vitalequipmentneededinidentifiedarea
5. Library&informationcentre
6. Trainingandconferencefacilities

Sponsorship

The TBI may be promoted by the selected Host Institution and Department of Science and Technology jointly. The HI has to provide the requisite land and building for the TBI. Other related and interested agencies could also be involved as sponsors.

Activities

Each TBI would be required to plan and undertake specified activities based on the identified thrust areas. However, the following set of activities is suggested as general guidelines:

1. ProvidespecializedservicestoexistingSMEsintheregion
2. Facilitatetechnologycommercialization
3. Consultancy
4. Trainingincludingshortcourses
5. TechnologyrelatedIPRissues,legalandqualityassuranceservices
6. Marketing
7. Assistanceinobtainingandotherclearances
8. Commonfacilities
9. Assistanceinpreparationofbusinessplans
10. Technologyshows/technologyclinics/tradefairs

OrganisationStatus

TheTBIshoulditselfrepresentadynamicmodelofsustainablebusinessoperationandgeneraterevenue aswellasprofits.AspertheguidelinesoftheDepartmentregardinglegalstatusofnewTechnology Business Incubators, it has become mandatory to register the new TBIs as an autonomous body functioningas a society registered under societies act of 1860/ or as a nonprofit making section 25/ section 8 company. TheaffairsoftheTBIshouldbemanagedbyanAdvisoryBoard.TheBoardoftheTBIshouldhelpnotonly in development of astrategicplan containing quantifiableobjectivesto achieve thedesired resultsbut also in managing the TBI efficiently and effectively. The Board should have representation from the promotersandreputedprofessionals.This mayincluderepresentativesof DST,SIDBI, HI, Industry, VCcompanies, Entrepreneurs, student bodies and tenants of the TBI. A committee should also be set up for selection of tenant firms.

StaffStructure

Theday-to-day operations oftheTBI wouldbe looked after bythe Chief Executive Officer/Managing Director and a team of selected personnel which may include one or two professionals having technical/managerial qualification and relevant industry experience to look after areas such as business planning, technology transfer, training, and consultancy. In addition, an account cum administrative officer and one secretarial assistant may be inducted in the core team. To cater to the specialised and need based services, the TBI should have a panel of experts/ consultants. Their services may be hired as and when required on paymentbasis.Securityand housekeepingservices may be arranged on contract basis.

RoleoftheHI

TheHostInstitutionhastoplayanimportantrolenotonlyintheestablishmentoftheTBIprojectbutalso in itssmoothandefficientfunctioning.Onlythoseinstitutions/organisationsthatcanprovideland and built-up space for TBI and are also willing to share available facilities and expertise would be considered for setting up of the TBI. Host Institute should demonstrate its commitment and responsibility towards the TBI project. The HI will provide a suitable built-up area where-in the TBI could be set up besides provision of utilities such as electricity and water. The HI will also ensure availability of following facilities to the tenantsof the TBI on mutually agreed charges:

1. Lab/testingfacilities
2. Library
3. Mainframecomputer
4. Facultysupport

EstimatedProjectCost

Each TBIshould preparea detailedprojectproposal andworkoutthecost,basedon actualrequirements. A project implementation schedule may be prepared covering the key activity of the project. Since TBI is software intensive, greater focus should be laid on providing value-added services rather than facilities (hardware) to its tenants. Wherever possible, duplication of the facilities already existing in HI may be avoided and only need-based facilities may be proposed in the initial phase of the project.

SelfSufficiency

Each TBI is expected to become self-sufficient within a period of five years from the date of sanction of the project. The TBI should, however, start earning from the very first year of its operation. The TBI should appointaProject Manager with relevantexperienceand exposuretothebusiness environment.

Science&TechnologyEntrepreneurshipPark(STEP)

AScience&TechnologyEntrepreneurshipPark(STEP)isaspecializedfacilitydesignedtofosterand support innovation, technology-driven entrepreneurship, and the commercialization of scientific and technological research. STEPs are typically established in collaboration with academic institutions, research organizations, government bodies, and industry partners to create an ecosystem that bridges the gap between academia and industry. The primary goal of a STEP is to promote the transformation of researchand technology innovations into successful commercial ventures and startups.

Objectives

1. To forge a close linkage between universities, academic and R&D institutions on one hand and industry on the other.
2. To promote entrepreneurship among Science and Technology persons, many of whom were otherwise seeking jobs soon after their graduation.

3. To provide R&D support to the small-scale industry mostly through interaction with research institutions.
4. Topromoteinnovation-basedenterprises.Facilitiesand

FacilitiesandServicesProvidedbySTEPs

1. It offers facilities such as nursery sheds, testing and calibration facilities, precision tool room/central workshop, prototype development, business facilitation, computing, data bank, library and documentation, communication, seminar hall/conference room, common facilities such as phone, telex, fax, photocopying. It offers services like testing and calibration, consultancy.
2. Training, technical support services, business facilitation services, database and documentation services, quality assurance services and common utility services.

RoleofHostInstitution

In order toachieve synergetic benefits andto harness the knowledge andexpertise available in academic and R&D institutions of excellence, every STEP needs to be promoted around a host institution which could launch, sustain and help the STEP grow. Therefore, the host institution must play an important and crucial role in promotion and growth of a STEP

STEPModel

Though a workable 'STEP-Model' has been evolved by an Expert Committee chaired by the late Prof. Y. Nayudamma, however, each STEP would have to carve out a niche for itself with regard to the types of products to be developed based on the availability of facilities and expertise in the host institution and also theindustrialclimateoftheregion.Eachprojectenvisagesactiveinvolvementandparticipationof agencies such as the host institution, ultimate user of the facilities, financial institutions, governmentagencies and STEP management.

CHAPTER2-Marketsurveyandopportunityldentification(BusinessPlanning)

Businessplanning

A business plan is an executive document that acts as a blueprint or roadmap for a business. It is quite necessaryfor newventuresseeking capital, expansion activities, orprojects requiringadditional capital. Itis also importantto remind the management, employees, andpartners of whatthey represent.

Creating a business plan is an indispensable part of any business. The main purpose of creating such a document istoattract prospective investorstoprovide capital totheenterprise.Therefore, theplan should cover all the important perspectives of a business – financial, operational, personnel, competition, etc.

TheAdvantagesofHavingaBusinessPlan

Since a detailed business plan offers a birds-eye view of the entire framework of an establishment, it has several benefits that make it an important part of any organization. Here are few ways a business plan can offer significant competitive edge.

1. **Sets objectives and benchmarks:** Proper planning helps a business set realistic objectives and assign stipulated time for those goals to be met. This results in long-term profitability. It also lets a company set benchmarks and Key Performance Indicators (KPIs) necessary to reach its goals.

2. **Maximizes resource allocation:** A good business plan helps to effectively organize and allocate the company's resources. It provides an understanding of the result of actions, such as, opening new offices, recruiting fresh staff, change in production, and so on. It also helps the business estimate the financial impact of such actions.

3. **Enhances viability:** A plan greatly contributes towards turning concepts into reality. Though business plans vary from company to company, the blueprintsof successful companies often serve asanexcellent guide for early -stage start-ups and new entrepreneurs. It also helps existing firms to market, advertise, and promote new products and services into the market.

4. **Attracts investors:** A business plan gives investors an in-depth idea about the objectives, structure, and validity of a firm. It helps to secure their confidence and encourages them to invest.

TheTypesofBusinessPlans

Businessplansareformulatedaccordingtotheneedsofabusiness.Itcanbeasimpleone-pagedocument or an elaborate 40-page affair, or anything in between. While there is no rule set in stone as to whatexactly a business plan can or cannot contain, there are a few common types of business plan that nearlyall businesses in existence use.

1. **Start-upplan:**Asthenamesuggests, thisisadocumentation oftheplans, structure, and objections of a new business establishments. It describes the products and services that are to be produced by the firm, the staff management, and market analysis of their production. Often, a detailed finance spreadsheet is also attached to this document for investors to determine the viability of the new business set-up.

2. **Feasibility plan:** A feasibility plan evaluates the prospective customers of the products or services that are to be produced by a company. It also estimates the possibility of a profit or a loss of a venture. It helps to forecast how well a product will sell at the market, the duration it will require to yield results, and the profit margin that it will secure on investments.

3. **Expansion Plan:** This kind of plan is primarily framed when a company decided to expand in terms of production or structure. It lays down the fundamental steps and guidelines with regards to internal or external growth. It helps the firm to analyse the activities like resource allocation for increased production, financial investments, employment of extra staff, and much more.

4. **Operations Plan:** An operational plan is also called an annual plan. This details the day-to-day activities andstrategiesthatabusinessneedstofollowinordertomaterializeitstargets.Itoutlinestheroles and responsibilities of the managing body, the various departments, and the company's employees for the holistic success of the firm.

5. **Strategic Plan:** This document caters to the internal strategies of the company and is a part of the foundational grounds of the establishments. It can be accurately drafted with the help of a SWOT analysis through which the strengths, weaknesses, opportunities, and threats can be categorized and evaluated so that to develop means for optimizing profits.

TheKeyElementsofaBusinessPlan

There is some preliminary work that is required before you actually sit down to write a plan for your business. Knowing what goes into a business plan is one of them.
Herearethekeyelementsofagoodbusinessplan:

1. **Executive Summary:** An executive summary gives a clear picture of the strategies and goals of your business right at the outset. Though its value is often understated, it can be extremely helpful in creating the readers' first impression of your business. As such, it could define the opinions of customers and investors from the get-go.

2. **Business Description:** A thorough business description removes room for any ambiguity from your processes. An excellent business description will explain the size and structure of the firm as well as its position in the market. It also describes the kind of products and services that the company offers. Iteven states as to whether the company is old and established or new and aspiring. Most importantly, it highlightstheUSP(UniqueSellingPoint)oftheproductsorservicesascomparedtoyourcompetitors in the market.

3. **Market Analysis:** A systematic market analysis helps to determine the current position of a business and analyses its scope for future expansions. This can help in evaluating investments, promotions,

marketing, and distribution of products. In-depth market understanding also helps a business combat competition and make plans for long-term success.

4. **OperationsandManagement:**Muchlikeastatementofpurpose,thisallowsanenterprisetoexplain its uniqueness to its readers and customers. It showcases the ways in which the firm can deliver greater and superior products at cheaper rates and in relatively less time.

5. **Financial Plan:** This is the most important element of a business plan and is primarily addressed to investors and sponsors. It requires a firm to reveal its financial policies and market analysis. At times, a5-year financial report is also required to be included to show past performances and profits. The financial plan draws out the current business strategies, future projections, and the total estimated worth of the firm.

Advantagesof abusinessplan	Disadvantagesofabusinessplan
1.Providesaroadmapforachievingbusinessobjectives	1.Canbetime-consumingandrequiresignificanteffortto create
2.Helpssecurefundingandattractinvestors	2.Businessplansmaybecomeoutdatedquicklyandneedto be regularly updated
3.Allowsformoreinformeddecision-making	3.Mayleadtooverconfidenceinthebusiness'ssuccess
4.Promotesaharmoniousworkingstructureamong employees and business owners	4.Canbelimitingandpreventbusinessesfromadaptingto changing market conditions
5.Helpstrackbusinessprogress	
6.Providesaframeworkformeasuringsuccess	
7.Helpsmitigaterisk	

SSI, Ancillary Units, Tiny Units, Service sector Units

Small Scale Industries (SSI)

Small Scale Industries (SSI) are those industries in which the manufacturing, production and rendering of services are done on a small or micro scale. These industries make a one-time investment in machinery,plant,andequipment,butitdoesnot exceed Rs.10 crore and annualturnoverdoesnotexceed Rs.50crore.

1. **IntroductionofSSI**

Essentially the small-scale industries are generally comprised of those industries which manufacture, produce, and render services with the help of small machines and less manpower. These enterprises must fall under the guidelines, set by the Government of India.

The SSI's are the lifeline of the economy, especially in developing countries like India. These industries are generallylabour-intensive, andhence theyplayan important rolein thecreation ofemployment.SSI'sare a crucial sector of the economy both from a financial and social point of view, as they help with the per capita income and resource utilisation in the economy.

2. **CharacteristicsofSSI**

Ownership: Such units are generally under single ownership. So, it is a sole proprietorship or sometimes a partnership.

Management: Boththemanagement andthe control generally are with theowner/owners.So, the owner is actively involved with the daily running of the business.

Limited Reach: Small scale industries have a restricted area of operations.

So, they meet local and regional demand.

Labor Intensive: These small-scale industries tend to use labour and manpower for their production activities. So, their dependence on technology is limited.

Flexibility: These units are more adaptable to their changing business environment. So in case of sudden changes or unexpected developments, they are flexible enough to adapt and keep carrying on. Large industries do not have this advantage.
Resources: They use local and readily available resources. This also helps the economy with better utilization of natural resources and less wastage.

3. **RoleofSmall-ScaleIndustriesintheIndianEconomy**

A. **Total Production-** These enterprises account for almost 40% of the total goods and services producedin the Indian economy. They are one of the main reasons for the growth and strengthening of the economy.
B. **Employment-** These small-scale industries are a major source of employment in the country. The whole labour force cannot find work in the formal sector of the economy. So these labour-intensive industries provide a livelihood to a large portion of the workforce.

C. **Contribution to Export-** Nearly half of the goods (45-55%) of the goods that are exported from Indiaare produced by these small enterprises. About 35% of direct exports and 15% of the indirect exports are from the small-scale industries. So, India's export industry majorly relies on these small industries for their growth and development.

D. **Welfare of the Public-** Other than economic reasons, these industries are also important for the social growth and development of our country. These industries are usually started by the lower or middle-class public. They have an opportunity to earn wealth and employee other people. It helps with income distribution and contributes to social progress.

ObjectivesofSSI
Theobjectivesofthesmall-scaleindustriesare:
1. Tocreatemoreemploymentopportunities.
2. Tohelpdeveloptheruralandlessdevelopedregionsoftheeconomy.
3. Toreduceregionalimbalances.
4. Toensureoptimumutilisationofunexploitedresourcesofthecountry.
5. Toimprovethestandardoflivingofpeople.
6. Toensureequaldistributionofincomeandwealth.
7. Tosolvetheunemploymentproblem.
8. Toattainself-reliance.
9. Toadoptthelatesttechnologyaimedatproducingbetterqualityproductsatlowercosts.

Registration of SSI
SSI registration is a registration provided by the Ministry of MSME. A business should obtain SSI registration in order to be eligible for several schemes, subsidies and other incentives provided by the Government to such SSI's. SSI registration can be obtained online too.
EligibilityCriteriaforSSIregistration
SSIregistrationcanbeobtainedfor:
1. Manufacturingenterprise;and
2. Serviceenterprise

Iftheinvestmentinplantandmachinery(excludingland&buildings)iswithinanyofthefollowinglevels:		
	Manufacturingenterprise	**Serviceenterprise**
MicroEnterprises:	Investment of up to Rs.25 lakhs in plant and machinery	InvestmentofuptoRs.10lakhsinequipment
SmallEnterprises:	Investment of up to Rs.5 crores in plant and machinery	InvestmentofuptoRs.2croresinequipment
MediumEnterprises:	InvestmentofuptoRs.10croresinplantand machinery	InvestmentofuptoRs.5croresinequipment

Iftheinvestmentisdonewithintheabove-mentionedlimitsthentheSSIregistrationhastobeobtained.

SSI, Ancillary Units, Tiny Units, Service sector Units

Benefits of obtaining SSI registration

1. TherearevarioustaxrebatesofferedtoSSI's
2. A credit for Minimum Alternate Tax (MAT) is allowed to be carried forward for up to 15 years instead of 10 years
3. TherearemanygovernmenttenderswhichareonlyopentotheSSI.
4. Theygeteasyaccesstocredit.
5. Once registered the cost of acquiring a patent, or the cost of setting up the industry reduces as many rebates and concessions are available.
6. BusinessregisteredasSSIaregivenhigherpreferenceforgovernmentlicenseandcertification.

BusinessregisteredasSSIaregivenhigherpreferenceforgovernmentlicenseandcertification.

1. To do the registration the SSI owner has to fill a single SSI online registration form. It can be done in the offline mode as well.
2. If a person wants to get registration for more than one industry then also he/she can opt for an individual SSI registration done.
3. Togetregisteredhe/shehastofillasingleformwhichisavailableatthewebsite.
4. The documents required for the SSI registration are Aadhar number, industry name, address, bank account details and some common information.
5. Here,thepersoncanprovideself-certifiedcertificates.
6. Noregistrationfeesisrequiredfortheregistration.
7. Once the SSI registration form is filled and uploaded, very soon you will obtain the SSI registration number.

Ancillaryunit

Ancillary industries are those which manufacture parts and components to be used by larger industries.The program of ancillarization includes motivation of public and private sector units to offload production of components, parts, sub-assemblies, tools, intermediates, services etc., to ancillary units.

The program of ancillary development has specific advantages both for large as well as small industries and also for the total economy of the country.

The **large-scale units**have the advantages in the form of savings in investments, inventories, employmentof labour, etc. and getting the items of the desired specifications,

while the **small-scale units**have the advantage of getting assured market for their products, availability of technical assistance and improved technology from the parent units.This program also helps in overall economy of the country.

Small Industry Development Organisation (SIDO) is a nodal agency of the Central Government and Ancillary Division at Headquarters continued its function for the promotion of ancillarisationprogramme in thecountry.

Tinyunit

The Tiny (Micro) Small scale industries have played a vital role in the overall economic development of our country where millionsofpeople areunemployed, where most oftheentrepreneurs arecapableof makingonly small investment and where there is chronic shortage of resources to produce sophisticated machinery

Tiny Industry: Tiny Scale industry is one in which the investment in plant and. machinery is less than Rs.25 lakhs irrespective of the location of the unit.

ServicesectorUnits

WhatistheServiceSector?

The service sector, also known as the tertiary sector or the service industry, refers to a category of the economy that primarily deals with providing intangible services rather than manufacturing tangible products. It encompasses a wide range of businesses and industries that offer various services to individuals, other businesses, or institutions. The service sector is one of the major sectors of the modern economy andhas grownsignificantly in importance in manydeveloped and developing countries.

1. **Intangible Offerings:** The service sector primarily offers intangible products or services, which means they provide value through activities, expertise, or assistance rather than physical goods. Examples of services include healthcare, education, banking, consulting, hospitality, and entertainment.
2. **Diverse Range of Industries:** The service sector is highly diverse and includes numerous industries and subsectors. It encompasses healthcare, education, financial services, transportation, retail, information technology, professional services (such as legal, accounting, and consulting), hospitality, entertainment, and many more.
3. **Human-Centric:** Many service sector businesses rely heavily on the skills, knowledge, and interactionsof their employees. The quality of service often depends on the professionalism and expertise of the people providing the service.
4. **Customer-Centric:** Customer satisfaction and experience are paramount in the service sector. Businesses in this sector often prioritize building strong customer relationships, delivering excellent service, and meeting the specific needs and preferences of their clients.
5. **Labor-Intensive:** Since services often require human labor and expertise, labor costs are a significant consideration for service sector businesses. Employee training and development are vital for ensuring high-quality service delivery.

TimeschedulePlan,Agenciesto be contactedfor ProjectImplementationTime schedule planning

1. Createaroutine-Nomatterwhatyouareworkingon,createaroutine.Blocktimesforspecificactivities,andstick withtheplan.Turnyour calendarinto abunchof blocks,andput activities intothoseblocks.Whateveris not planned, you do not do. If you want free time, plan it.

Yourroutinemaychangethroughtheyear,butatanygiventimeit'sbettertohaveaplan.Forexample,ifyouare workingonlaunchingacompany,andneedtodocustomerdiscovery,codingandhiring,thenprioritizeandblock specific times for each activity. A calendar app is a very useful tool

2. Groupmeetings andcallsintoblocks

Forexample,ifyouneedtohaveoutsidemeetings,blocktwoandahalfdaysaweekforthosemeetings,andgoto theoutsidemeetingsonlyduringthosetimes.Dothesamethingforin-officemeetings.Thiswayyouarenotonly creatingachunkoftimeformeetings,youarealsocreatingotherblocksoftimethatyouwillbeabletoimportant work. Do the same thing with calls, and book them all back-to-back.

3. Optimizetimefordifferentmeetingtypes

Personally,Iamnowabigfanof30-minutemeetingsand10-minutecalls.Ithink10-minutecallsareagreatwayto initiallyconnectwithsomeoneorgivesomeonequickadvice.YoucandoaGoogleHangoutorSkypeifyoupreferto seethepersoninsteadof justhearingthem.Thereason10-minute callsworkis becausepeopleskipBS andgetto thepoint.Tryit.Tenminutesisactually alotof time,ifyoufocus.I preferto dothesecallson Fridays,whenI am usually working from home.

Iamnot abigfanof introductorycoffeemeetings,lunches and dinners.Iamahugefanofcoffeeandmeals with peopleIalreadyknow.Thosemeetingsaretypicallyproductiveandfun,butthefirsttimeyouaremeetingsomeone, it's more productive to do a call or an actual 30-minute meeting in the office.

Herearethetypesofmeetingsyoumightwanttobook:
- 30-minutemeetingintheofficetogettoknowsomeoneorcatchup
- 45-minutemeetingoutsideoftheoffice.Allow15minutesfortravel.
- 10-minutecallto helpsomeonewhoneedsadvice
- 15-minutedailystandup--greatforstartupsandengineeringteams
- 30-minuteweeklystaffmeeting

Whatevermeetingsyouhold,groupthemintoblocksdependingonyourparticularschedule.Ifyoufeellikea particular type of meeting needs more or less time,thenadjust the blockaccordingly.

4. Useappointmentslots

ThereisagreatfeatureinGoogleCalendarcalledAppointmentSlots.Itallowsyoutobookachunkoftime,andthen splititinto pieces.Forexample,Icanbookthreehoursofoutsidemeetingsand thensplititintothreemeetings-- onehoureach.OrI canbookonehour of callsandsplititinto sixcallsat10minuteseach.Thereis alsoa bunchof specific tools, such as doodle, that do that too.

Thenextstepis tocreatebit.lylinks for differentblocksoftime.You canhavealinkforyouroutsidemeetings, anotherlinkfor30-minuteinsidemeetingsandyetanotheronefor10-minutecalls.Youthensharetheselinks,and theycanbookthetimewithyou.I'vedonethiswithTechstarscandidatecompaniesanditwasamazinglyeffective.It minimizedthe backand forthon email andsaved a tonof timefor me and the companies.

Related:HowtoUseTechnologytoIncreaseProductivity,NotDistractYou

This won'tworkwith everyone,because somepeoplemayfindthis rude. In any case,ifyouare not comfortable sendingthelinktoasomeone,thenyoucanuseyourownappointmentslots,suggestafewmeetingtimes,andthen book the specific slot yourself.

Ifyouareaskingsomeonetomeet,alwaysproposeseveralspecificalternativetimessuchasTuesdayat4:30p.m.or 5p.m.on Wednesday. DavidTisch gaveagreattalkthatcoversschedulingmeetingsandmany morebasics of communication.

5. Blocktimeforemail

Thisisthemostimportanttipinthewholepost.Emailwillownyouunlessyouownit.Toownyouremailyoumust avoiddoingitallthetime.Todothatyouneedtoschedulethetimetodoyouremail.Itisabsolutelyamust.Infact it is so important that I wrote a whole entire post about managing email.

6. Planyourexercise andfamilytime

Unless youput itonthecalendar,itwon'tgetdone.Well,thatapplies to yourexerciseand timewithyour family. Whetheryougointhe morning,afternoonorevening,doitthreetimes a week oreveryday,putexercisetimeon thecalendar.MyfriendandmentorNicoleGlarosmakesitveryclearthathermornings,until10a.m.,belongtoher. Shehitsthe pavementor thegym, depending on the weather,and rarely deviatesfrom herroutine.

Thesameappliestoplanningtimewithyourfamilyandsignificantothers.Ifyouareaworkaholiclikeme,youwill endupstealingtimefromyourfamilyunlessyoubookitinadvanceandtrainyourselftopromptlyunplug.Many peopleintheindustryhavetalked about planning familytime.Myfavoriteis BradFeld,whotalksaboutitalot.

7. Manageyourtime

Ithinkaboutmytimealot.Ithinkaboutwhereitgoes.IthinkaboutwherecanIgetmoreofit,andhowtooptimize it.WhenIwasrunningGetGlue,Ihadanassistantwhowasmanagingmytime.Shewasawesome.ButwhenIjoined Techstars,I decidedthatI willmanagemycalendar myself.I havetoconfess thatI amhappyaboutthis decision. IfindmyselfthinkingaboutwhatIamdoing,whoamImeetingwithandwhyalotmore.Imeetwithalotofpeople everyweek.Myschedule is particularlyinsaneduringtheselectionprocess.Yet,becauseImanagemycalendar, followa routine,planmeetingsin blocksanduseappointmentslots,I find myself lessoverwhelmedandless stressed.

Agencies tobe contactedfor ProjectImplementation

ProjectImplementationUnitisatechnicalprojectmanagementunitthatservesasthetechnicalsecretariatforthe GPC.PIUreportsdirectly to GPC andistasked toimplementdailytasks,andmanageandoverseetheproject development.

SettingupanImplementationAgency

- WhattypeofanImplementationAgencytosetup–Society,TrustorSection8Company
- HowtosetuptheImplementationAgency?Whataretherulesandregulations?
- Registrationrequirements:
    - WithRegisteringbodies
    - IncomeTax
    - ServiceTax

- HomeMinistry
- CAPART

- SettinguptheRegisteredOffice
- OpeningaBankAccount

GovernanceoftheImplementationAgency

- Howtoensureeffectivegovernancemechanismsareinplace,withadequatechecksandbalances
- Howtobuildon-timereportingsystemandeffectivedocumentation?

Funding

- Howtobuildaworkingrevenuemodelandimprovefundraisingabilities?
- Howtodevelopcorrectfinancialandreportingsystemwithfunders?
- Howtoobtainvarioustaxexemptionstosupportfundraising?
- Whatarethewaystoreachfinancialsustainability?

ProjectDevelopment&Management

- Howtodevelopimpactfulprojects?
- Howtocreateprojectsthatarescalableandcangetfunded?
- What are thestrongestareas tobuildyouractivities around?

Scaling

- Howtoensurethecurrentactionswillleadtofuturegrowth?
- Howtoexpandtheprojectstomaximizeimpact?

Skill-building

- Wheretofindprofessionalstohireandhowtodeveloptheirskillsfurther?
- Whichskillsarecurrentlyrequiredinthemarketthatcangetthetargetclientintofuturejobs?

Evaluationandassessment

- How toevaluatetheefficiencyofaproject and maximizeimpact?

Assessment of DemandandsupplyandPotentialareasof Growth

WhatIsDemand?

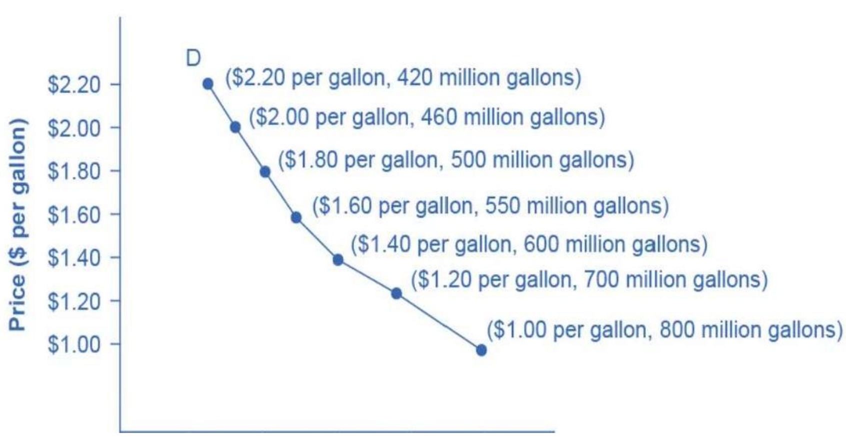
Demandis theamount ofgoods orservicesthat consumersarewillingtopayat eachpricepoint.Itisbasedon wantsandneeds and theabilitytopay. Ifconsumersareunabletopayfor goodsandservices,demanddoesnot exist.Whenthepriceofagoodorservicerises,demanddecreases.Conversely,ifthepriceofagoodorservicefalls, demandgoesup. Thislaw ofdemand representsaninverserelationshipbetweenpriceandquantitydemanded.

SmartphoneDemand: Asnewmodels ofsmartphones arereleasedwithadvancedfeaturesandcapabilities, consumersoftenshowstrongdemandfortheseproducts,especiallyiftheyperceivethemasimprovementsover their current devices.

GasolineDemand: Whenthepriceofgasolinedecreases,consumersaremorewillingtopurchasegasolinetofuel theirvehicles.Conversely, whengasolineprices rise,consumersmayreducetheirdrivingorseekalternative transportation options.

HowtoGraphaDemandCurve

Thedemandcurveisalinegraphthatshowshowmanyunitsofagoodorservicewillbepurchasedatvariousprices. Thepriceis plotted on the vertical (Y)axis while thequantityis plottedonthe horizontal(X)axis.



Price(pergallon)	QuantityDemanded (millions of gallons)
$1.00	800
$1.20	700
$1.40	600
$1.60	550
$1.80	500
$2.00	460
$2.20	420

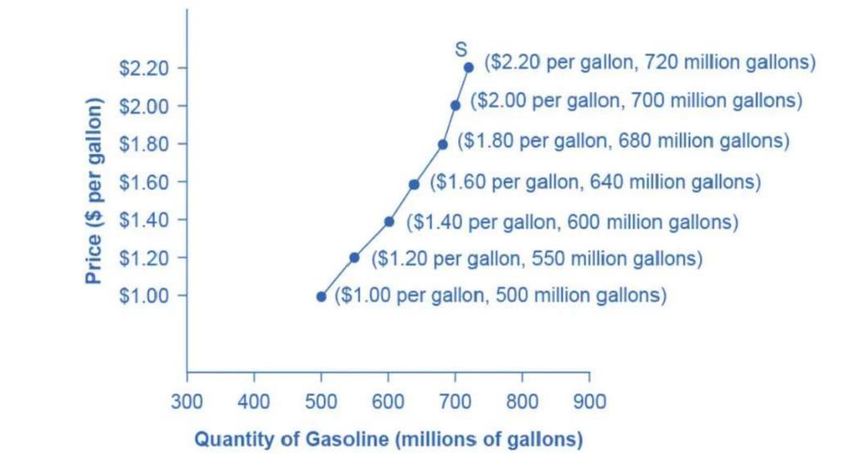
ThedemandscheduleshowsthataspricerisesquantitydemandeddecreasesandviceversaThedownwardslope ofthedemandcurveagain illustratesthelawofdemand—theinverse relationshipbetweenprices andquantity demanded.

WhatIsSupply?

Supplyistheamountofgoodsorservicesavailableorproduced,basedonseveralfactorssuchasinputresources, labour,technology, and regulations. Let us consideragain the price of gasoline. Ifanewgasreserveisdiscoveredunexpectedly,thesupplysuddenlyincreases.Becausegasbecomeslessscarce, pricesbecome more competitivetobeatout othersuppliersfor salesvolumes.Priceswilldecreasetothelevel wherethedemandmatches,becausedemandwillnaturallyincrease:Cheapergasismoreattractivethanitsmore expensive counterpart.

HowtoGraphaSupplyCurve: Graphically,asupplylineisrepresentedbyanupwardslopingcurvefromlefttoright withprice onthevertical axisandquantityplottedon thehorizontal axis.Inthe caseofbothsupplyanddemand relationships,all othervariablesare assumedto remainconstant whenconstructingthesegraphs.

Price(pergallon)	QuantitySupplied (millionsofgallons)
$1.00	500
$1.20	550
$1.40	600
$1.60	640
$1.80	680
$2.00	700
$2.20	720

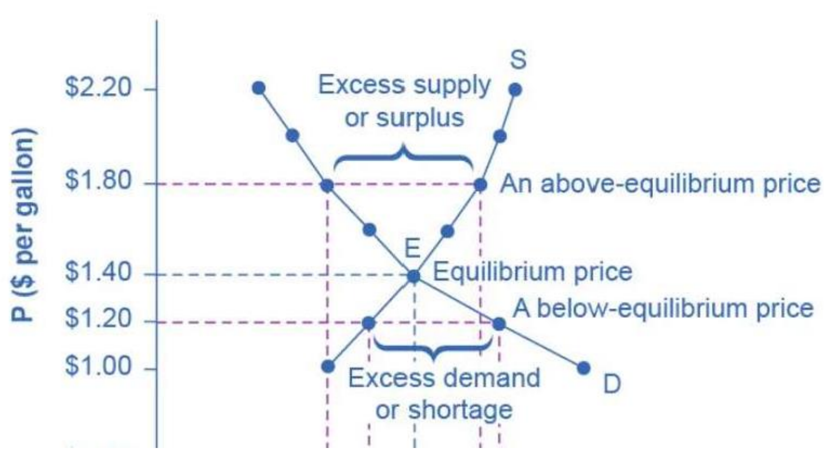


Aspricerises,quantitysuppliedalso increases,andviceversa.Thesupply curve(S)iscreatedbygraphingthepointsfromthesupplyscheduleandthenconnectingthem.Theupwardslopeof thesupplycurveillustratesthelawofsupply—that a higherprice leadsto ahigherquantitysupplied, andviceversa.

WhatIsSupply andDemandEquilibrium?

Supplyanddemandequilibrium,also knownasmarketequilibrium,isa fundamentalconceptineconomicsthat describesthe pointat whichthequantityofa goodor servicesuppliedbyproducersmatchesthe quantity demandedby consumersinaparticularmarket.In otherwords,itisthepriceandquantityatwhichthesupplyand demandcurvesintersectonagraph.Atthisequilibriumpoint,thereisnoshortageorsurplusoftheproduct,andthe market is in a state of balance.

Price(per gallon)	Quantitydemanded(millionsof gallons)	Quantitysupplied(millionsofgallons)
$1.00	800	500
$1.20	700	550
$1.40	**600**	**600**
$1.60	550	640
$1.80	500	680
$2.00	460	700
$2.20	420	720



MarketEquilibrium:Marketequilibriumoccursatthepointwherethesupplyanddemandcurvesintersect.Atthis point:

1. Thequantity ofthe productdemandedby consumersisequaltothequantitysupplied byproducers.
2. Themarket-clearingpriceisestablished,whichisthepriceatwhichbuyersarewillingtobuy,andsellersare willing to sell, without causing surpluses or shortages.
3. Thereisnoupwardordownwardpressureonpricesbecausesupplyanddemandareinbalance.

WhatFactorsAffectDemand?

Thefactorsthataffectdemandcauseashiftoftheentiredemandcurvetoeithertheleftortheright.Thisis differentfromamovementalongthedemand curve, which would bearesult of aprice change.

1. **Tastesandpreferences.**Consumertastesareconstantlychanging,anddemandforproductsrisesandfalls as a result.

   PrintMedia: Printnewspapersandmagazineshavefaceddecliningcirculationandadvertising revenueasconsumersincreasinglyturntoonlinesourcesfornewsandcontent.Manyprint publications have had to reduce staff or cease operations.
2. **Incomelevel.**Whenconsumerincomesincrease,theyareabletodemandandbuymorenormalgoods, which are products whose demand goes up as income rises
3. **Pricesofsubstitutes.**Anincreaseinthepriceofoneproductcanincreasethedemandforitssubstitute.

   Coca-ColaandPepsiareexcellentexamplesofthiseffect.IfPepsiincreasesitsprice,consumers will quickly switch to buying more Coke.
4. **Complements.**Complementarygoodsareproductstypicallyboughttogether;Adropinthepriceofbread will increase the demand for butter to put on the bread.
5. **Expectationoffutureprices.**Ifconsumersexpectpricestodropinthenearfutureorgoonsale,theywill delay their purchases, shifting the demand curve to the left.
6. **Changes in buyer demographics**. Changing demographics affect the demand for different products. For instance,

WhatFactorsAffectSupply?

1. **Costof production.**Changes inthecoststomanufactureaproduct willcause theproducerto modify productionvolume.Supposeacarmanufacturerreceivesanincreaseinthepriceofsteelandraisestheprice ofcarstocovertheincrease.Consumerswilldemandalowerquantityofcarsatthehigherprice,causingthe manufacturer to reduce output and shift the supply curve to the left.

2. **Technology.**Improvementintechnologythatreducesthecostofproductionwillenableproducerstolower selling prices and sell more cars. This shifts the supply curve tothe right.

3. **Numberofsuppliers.**Theadditionofnewsuppliersincreasesthequantitiesavailableatthesamepricesand shifts the supply curve to the right.

4. **Governmentregulations.** Somegovernmentregulationscanincreasethe cost of production.Asaresult,a manufacturermightreducethequantitysuppliedbecausetheprofitisreduced,shiftingthecurvetotheleft.

WhatIstheImportanceofSupplyandDemandAnalysis?

Supplyanddemandanalysisisabasiceconomictoolusedtounderstandthemarket’srelationshipbetweenbuyers andsellers.Itcan beusedtodeterminethepricesofgoodsandservicesin amarketandunderstandtheforces influencing them.

Demandanalysislooksathowmuch of agood or servicepeople are willing tobuyat differentprices. This informationcan beusedtounderstandconsumerbehaviourandmakedecisionsaboutpricingandproduction.

Supplyanalysislooksathowmuchofagoodorserviceproducerscansupplyatdifferentprices.Thisinformationcan beused to understand businessbehaviour andmake decisionsabout pricingand production.

Theinteractionbetweensupplyanddemanddecidesthepriceofgoodsandservicesinamarket.Ifthereismore demandthansupply,theprice will increase.If thereis moresupplythandemand,thepricewilldecrease. Theimportanceofsupplyanddemandanalysisliesinitsabilitytohelpdecision-makersunderstandmarket conditionsandmakeinformeddecisionsaboutpricing,production,andotherfactorsthatinfluencemarket performance.

Identification of business opportunity

What Is a Business Opportunity?

Opportunityisdefinedasa Situationthatenablesanentrepreneurtooffermarketableproductsorserviceto interested buyers or end users

Anopportunitymaybethechancetomeetamarketneedthroughacreativecombinationofresourcestodeliver superior values

Agoodexampleofabusinessopportunityinthemarkettodayise-books.Amazonwasoneofthefirstcompaniesin theonlinebooksellingbusinesswho initiatedane-bookreaderthatmade itpossibletoreadbooks bymeans ofa digital device that looks more or less like a tablet pc.

ImportanceOfaBusinessOpportunity

1. **Thechancetobuildabusiness:**Abusinessopportunitycanbeanexistingunsolvedprobleminthemarket or a new problem arising fromcurrent trends,which is the chanceto build a business.
2. **Thechance to avoid failure:** Abusinessis likelytofailwithoutopportunities.Thisisbecausetheyare essentialforimplementingideasandinnovationsthatcanmakeabusinesssuccessful.Theyallowbusinesses to take the right decision at the right time.
3. **Thechancetogrow:**Opportunitiesallowbusinessestocreateandimplementideasandinnovations.Itis alsoachancetoimproveperformancebysolvingexistingproblemsbetter,providingamorerefinedvalue proposition to the target market, and building a more efficient business model.
4. **Thechancetomaximiseprofits:**Abusinessopportunityinvolvesfavourableconditionsthatcanbeusedto increaseprofits.Theseconditionsincludebutarenotlimitedtotheavailabilityofresources,theexistenceof marketdemand,and thepresenceoffavourable competition.Thegoal is tofind solutionsthatcan potentially maximise profits while solving problems.

TypesOfBusinessOpportunities

1. **Newmarketopportunity:**Anewmarketopportunityinvolvesanuntappedmarket,whichgivesbusinesses thechanceto createandimplementideas and innovationswithoutfacingmuch competition.
2. **Untappedresourceopportunity:**Anuntappedresourceopportunityisatypeofbusinessopportunitythat involves underutilisedor unexploitedresources that canbeused to createadded value.
3. **Repressed demand opportunity:** Arepressed demand opportunity capitalises on existing demands that the currentofferingsdonotcaterto.Forexample,Ubercapitalisedonarepresseddemandforanon-demand cab system in the existing cab industry.
4. **Technologyopportunity:**Atechnologyopportunityisatypeofbusinessopportunitythatallowsbusinesses to introduce newtechnologies that can be used in existing markets.
   1. Apple-iPhoneandiOSEcosystem:
   2. AmazonWebServices (AWS)-CloudComputing:
   3. Google-SearchEngineand SearchAdvertising:
5. **Competitiveopportunity:** Acompetitiveopportunity allowsbusinessestointroducenewproducts or servicesthatcanprovidemorevaluethantheircompetitorswhilesolvingtheproblemsofthetargetmarket better.
   1. Amazon-PrimeMembership:
   2. Netflix-OriginalContent:
   3. Coca-Cola -BrandingandMarketing:
6. **Strategic partnership opportunity:** Astrategicpartnership opportunity involves the chance to collaborate with businesses from complementary industries, allowing them to access new resources, strengthen their product offerings, and increase their competitive advantage.
   1. AppleandNike-AppleWatchandNikeTrainingClub:

2. StarbucksandSpotify-In-StoreMusicExperience:
3. UberandSpotify-In-CarEntertainment:
4. WalmartandFlipkart:
5. GoogleandNestlé-DigitalMarketing:
6. SpaceXandNASA-CommercialSpace Travel

HowToIdentifyaBusinessOpportunity?

Opportunityidentificationisanimportantpartofbusinessdevelopmentandgrowth.Itallowscompaniestomake the right decisions that will help them achieve their goals.

1. **TheCustomerResearchStage-**Thefirststepistoresearchcustomersandtheirproblemsbyasking questions related to the customer's needs, goals, and expectations.
   - This involves collecting, organising, and analysing information about customers'behaviour as well as their needs.
   - Thepastandpresenttrendsofthetargetmarketmustalsobeidentifiedtohelpbusinesses better understand customer preferences.
   - Theobjectiveistoidentifypotentialbusinessopportunitiesthatcanhelpthebusinesscreate value for its customers.

2. **ProblemHypothesisStage-**Inthisstage,businessessearchforproblemsbyidentifyingissuesandconcerns fromcustomer feedbackandother sourcesofmarketresearch.The firststepis todefinethe problem.
   - Oncethat has beendone, businesses needto search forthe root cause of the problem and explorepossiblesolutions.Thegoalistoformulateawell-focusedhypothesisthatcanbe tested with market research.

3. **Product HypothesisStage-** Businessesshoulddetermine what kind of product orservice willsolve customers'problemsoraddresstheirneeds.Theproductorserviceshouldtargetspecificcustomersbased on the information gathered during the customer research stage.

4. **MarketHypothesisStage-**Themarkethypothesisstageinvolvestestingcertainkeyassumptionsaboutthe businessopportunitywithcustomerstodeterminethedemandforaparticularproductorserviceinthereal world, and how it solves problems in the specified market.
5. **ProductDevelopmentStage-**Onceabusinessopportunityisconfirmed,thenextstepistodevelopa product or service that will solve the problem.
   - Theproductorserviceshouldbedesignedandtestedusingvariousmethodstoensureits viability and effectiveness.
   - Businessesneedtoconsidertheirtargetmarket,competitivethreats,andbusinessmodelsas they develop the product or service.

Finalproductselection

Therearethreebasicstages/stepsinvolvedinproduct/ventureselection

1. IdeaGeneration:

Ideagenerationistheinitialphaseintheprocessofselectingaproductorventure.Thisstageinvolvesbrainstorming and coming up with potential business ideas or product concepts.

Onewaytostartideagenerationisbyanalysingthestrengthsandweaknessesofyourbusinessorconsideringyour ownskills,interests,andpassions.Youcanalsoexploremarkettrends,customerneeds,emergingtechnologies,or problems that need solving.

Encourage creativity andinnovation duringthisstagetogeneratearangeof ideas.

2. Evaluation:

Onceyouhavealistofpotentialproductconceptsorbusinessideas,thenextstepisevaluation.Thisstageinvolvesa systematic assessment ofeach idea'sfeasibility,market potential,andalignment withyour goals.

Evaluation criteria may include market research findings, financial projections, scalability, competition, regulatory considerations, and your ability to execute the idea.

Someideasmay beeliminatedduringthisstageduetovarious factors,whileothersmayproceedtothenextphase.

3. Choice:

Thechoicestageiswhereyoumakethefinaldecisiononwhichproductconceptorventuretopursue.Itinvolves selectingone or afew ideas that have demonstrated the highest potential forsuccess. Factorsthatinfluenceyourchoicemayincludethemarket'sreadinessfortheproduct,yourowncapabilitiesand resources,thecompetitivelandscape,andtheoverallalignmentof theideawith your businessgoals. Aftermakingtheselection,youcanproceedwithfurtherdevelopment,prototyping,testing,andimplementation.

ConceptofProductSelection:

1. Productselection,isthedecision-makingprocesswhereadesignteamorentrepreneurchoosesoneorafew product concepts for further development and investment.
2. Forentrepreneursstartingwithmodestinvestmentsatasmallscale,productselectionisespeciallycritical becauseresourcesarelimited,andmakingthewrongchoicecanhavesignificantfinancialconsequences.
3. Theselectionprocessinvolvesacarefulanalysisofvariousfactors,includingmarketpotential,cost implications, and alignment with the business's capabilities and goals.

Itisimportanttonotethatproductselectionisnotaone-timedecision.Itcanbeanongoingprocessasbusinesses evolve and adapt to changing market conditions.

CHAPTER3-PROJECTREPORTPREPARATION

PROJECTREPORT

A Project Report is a document which provides details on the overall picture of the proposedbusiness. The project report gives an account of the project proposal to ascertain the prospectsof the proposedplan/activity. The project report contains detailed information about Land andbuildings required,Manufacturing Capacity per annum, Manufacturing Process, Machinery &equipment along with theirprices and specifications, Requirements of raw materials,Requirements of Power & Water, Manpowerneeds,MarketingCostoftheproject,production,financialanalysesandeconomicviabilityof the project

NeedofProjectReport:

1. The project report is like a Roadmap. It describes the direction the enterprise is going in, what its goals are, where it wants to be and how it is going to get there. It also enables the entrepreneur to know together he is preceding the right direction.
2. It helps in allotment of industrial plot or shed for the project from state industrial development corporation.
3. It helps the entrepreneur in obtaining working capital loan or term loan from Banks/State Financial Corporation/other financial institution.
4. Ithelpsinsecuringsupplyofscarerawmaterialsrequiredfortheproducttobemanufactured.
5. Ithelpstheentrepreneurinestablishingtechnoeconomicviabilityoftheproject.

CONTENTSOFAPROJECTREPORT

1. GeneralInformation

A project reportmust provideinformationaboutthedetails of the industryto which theprojectbelongsto. It must give information about

- Thepastexperience
- Presentstatus
- Problems
- Futureprospectsoftheindustry
- Product to be manufactured reasons for selecting the product if the proposed business isa manufacturing unit.

2. ExecutiveSummary

Aprojectreportmuststatetheobjectivesofthebusinessandthemethodsthroughwhichthebusinesscan attainsuccess.

3. OrganizationSummary

The project report should indicate theorganization structure andpattern proposed for theunit.It must state whether the ownership is based on

- soleproprietorship
- partnership
- jointstockcompany

4. ProjectDescription

Abriefdescriptionoftheprojectmustbestatedandmustgivedetailsaboutthefollowing:

- Locationofthesite
- Rawmaterialrequirements
- Targetofproduction
- Arearequiredfortheworkarea
- Powerrequirements
- Fuelrequirements
- Waterrequirements
- Employmentrequirementsofskilledandunskilledlabour
- Technologyselectedfortheproject
- Productionprocess
- Projectedproductionvolumes
- unitprices
- Pollutiontreatmentplantsrequired.

5. MarketingPlan

The project report must clearly mention the total expected demand for the product. It must statethe priceat whichthe product can be sold in the market Project report must mention the following:

- Typeofcustomers
- Targetmarkets
- Natureofmarket
- Marketsegmentation,
- Futureprospectsofthemarket
- Salesobjectives
- MarketingCostoftheproject
- Marketshareofproposedventure
- Demandfortheproductinthelocalarea

6. CapitalStructureandoperatingcost

Theprojectreportmustdescribethetotalcapitalrequirementsoftheproject.

- Itmustmentionthesourceoffinance
- Itmustalsoindicatetheextentofowner’sfundsandborrowedfunds
- Workingcapitalrequirementsmustbestated
- source of supply should also be indicated in the project

Estimate of total project cost, must be broken down into

- Land,constructionofbuildings
- Civilworks
- Plantandmachinery
- Miscellaneousfixedassets
- Preliminaryandpreoperativeexpenses
- Workingcapital

7. ManagementPlan

Theprojectreportshouldstatethefollowing.

- Businessexperienceofthepromotersofthebusiness
- Detailsaboutthemanagementteam
- Dutiesandresponsibilitiesofteammembers
- Currentpersonnelneedoftheorganization
- Methodsofmanagingthebusiness
- Plansforhiringandtrainingpersonnel
- Programsandpoliciesofthemanagement.

8. FinancialAspects

In order to judge the profitability of the business a projected profit and loss account and balancesheet must be mentioned in the project report. It must show

- Theestimatedsalesrevenue
- Costofproduction
- Grossprofit
- Netprofitlikelytobeearnedbytheproposedunit.
- Projectedbalancesheet
- Cashflowstatement
- Fundsflowstatementmustbepreparedeveryyearandatleastforaperiodof3to5years.

9. TechnicalAspects

Project report provides information about the technology and technical aspects of a project. Itcovers information

- Technologyselectedfortheproject
- Productionprocess
- Capacityofmachinery
- Pollutionandnoisecontrolplants

10. ProjectImplementation

Every proposed business unit must draw a time line for the project. It must indicate the timewithin the activities involved in establishing the enterprise can be completed.

11. Socialresponsibility

The proposed units draw inputs from the society. Hence its contribution to the society in theform of employment, income, exports, and infrastructure. The output of the business must beindicated in the project report.

PRELIMINARYPROJECTREPORT

A preliminary project report is a brief summary of a project describing the expected inputs and outputs like finance, manpower, machinery,material, technology, expenses, production, sales and profit etc of a project before the project is actually implemented.:

1. Problem/need:Acleardescriptionoftheproblemorneedtheprojectaimstohandle.
2. Proposedsolution:Abriefdescriptionofhowtoaddresstheproblem/need.
3. Workeffort:Ananalysissummaryofworkrelevanttotheproject.
4. Status:Currentstateofprojectwork,includingactivitiescompletedandunfinished.
5. Evaluation: Analysis and assessment of project work by specific criteria such as costeffectiveness, feasibility, manageability, performance, others.
6. Schedule:Atimelinewithspecificmilestonesandeventsrelatedtoprojectwork.

DetailedProjectReport(DPR)

Detailed project report is a detailed elaboration of each and every information and estimates mentioned in thepreliminaryprojectreportwhilepreparationsadetailedprojectreport(DPR)theentrepreneurmay take the help of experts to do thejob preparation of DPR requires a lot of time and hence it is an each and every item is necessary in a D.P.R.

ObjectivesofDetailedProjectReport(DPR):

TheobjectivesinpreparationoftheDPRshouldensurethat:

The report should be with sufficientDetails to indicate the possible future of the project when implemented.

the report should meetthe questions raised during the project appraisals (the various types of analyses canbeitfinancial,economic,technical,socialetc.)shouldalsobetakencareofintheDPR.Itcoversthe following aspects

1. EconomicAspects
2. SocialandPoliticalAspects
3. FinancialAspects

ElementsofDetailedProjectReport

Thefollowingelementsarethere

1. **Basic information and objectives of the business:** A project report must furnish details about the project and the industrial sector to which it belongs. Other comprehensive information about the reasons for starting the project and the intricacies involved in its implementation should be stated in the project report.
2. **Organisation particulars:** Additionally, the project report also needs to state information about the organisation that has initiated the project idea. It can involve information on ownership, biodata of the sponsors and their financial standing.
3. **Attributes of the project:** It must include a brief description of the project's detailed project report. The details of the project, such as:
   - Sitelocation
   - Sourcesofrawmaterial
   - Fuelandenergyrequirements
   - Labourrequirementsbothskilledandunskilled
   - Technologyrequirementsanditsfeasibility
   - Productionrequirementsetc.

Ontopofthat,ifthebusinessisservice-oriented,thenthisinformationmustbeinculcatedinthedetailed projectreport.

- **Marketing techniques:** The detailed report must include the marketing strategies considered while marketing the product. The expected demand for the product and the pricing, and other details needs to be added to the report.
- **Financial details:** To analyse whether the project's investment would reap profits and is economically viable, the financial information is included in the project report. Annual sales, cash flow statements, manufacturing cost and profit are some of the financial aspects of the project report.

TechnoeconomicFeasibilityReport

- Techno Economic feasibility refers to the estimation of project demand potential and choice of optimal technology
- Technoeconomicfeasibilityisananalysisontheexistingmarketandtechnology
- Thechoiceoftechnologyitselfwillbebasedonthedemandpotentialinprojectdesign
- Techno economic feasibility analyse the project on individual criteria or different aspect and sets the stage for detailed design development

A feasibility report of a new enterprise or of an expanding enterprise consist of some background info about the industry to which the project belongs, and the enterprise submitting the report in general

Factors to be considered while preparing TEFR

1. **Technical Consideration** – It establishes whether the project is technically feasible or not. In the various technical alternatives on employment, ecology, infrastructure demand, capital service, balance of payments and other factors are taken in account.
2. **EconomicConsiderations**-Economicdatarelatestomarket,thedatarequiredforanalysisofthis aspect can be obtained from secondary sources like government agencies, trade associations. Data can also be obtained through primary sources like mailed questionnaire and market survey.
3. **Financial Considerations** – Financial considerations helps the project to evaluate the different measures of commercial profitability and magnitude of financing required. It requires the current status of market with respect to the project
4. **Managerial Competence**– A proper assessment of thenumber andskills of staffrequired for the project is to be considered under this aspect. For this purpose, an appropriate organization structure is decided, then the skills and talents required by man power is determined.

Projectviability

Project viability refers to the likelihood that a proposed project will achieve its intended objectives and deliver the expectedbenefits whilebeing sustainable over its planned duration. Assessing project viabilityis a critical step in projectplanning and evaluation. It involves a comprehensive analysis of various factorsto determinewhetherthe project is feasible, both from a technical and financial perspective. Here are some key aspects to consider when evaluating project viability:

1. **TechnicalViability:**

- **Technology and Resources:** Assess whether the required technology, equipment, and resources are available or can be acquired within the project's constraints.
- **Technical Expertise:** Determine whether the necessary technical expertise and skills are present within the project team or organization.
- **Resource Availability:** Ensure that essential resources, such as raw materials, infrastructure, and labor, are accessible.

- **Risk Assessment:** Identify potential technical risks and challenges that could impede project implementation and develop strategies to mitigate them.

2. **FinancialViability:**
- **Cost-Benefit Analysis:** Conduct a thorough cost-benefit analysis (CBA) to determine whether the project's expected benefits outweigh its costs.
- **Initial Investment:** Calculate the initial investment costs, including capital expenditures (CAPEX) for equipment, facilities, and other project-related expenses.
- **Operational Costs:** Estimate ongoing operational costs (OPEX), including labor, maintenance, utilities, and other recurrent expenses.
- **Revenue Projections:** Forecast the expected revenue streams over the project's lifespan, considering sales, service fees, or other income sources.
- **Payback Period:** Determine the time it will take for the project to generate sufficient revenue to recover its initial investment (payback period).
- **Return on Investment (ROI):** Calculate the expected return on investment over the project's lifetime.

3. **MarketViability:**
- **MarketAnalysis:**Analyzemarketconditionsanddemandfortheproject'sproductsorservices.
- **Market Research:** Conduct market research to understand customer preferences, competition, and pricing dynamics.
- **TrendsandCompetition:**Considermarkettrendsandassessthecompetitivelandscape.
- **Marketing Strategy:** Develop a marketing strategy to capture market share and sustain customer demand.

4. **LegalandRegulatoryCompliance:**
- Ensurethattheprojectcomplieswithallrelevantlaws,regulations,andpermits.
- Assesspotentiallegalorcompliancecostsassociatedwiththeproject.

5. **EnvironmentalandSocialImpact:**
- Evaluate the environmental and social impact of the project and consider any necessary mitigation measures.
- Address any reputational or stakeholder concerns related to environmental and social responsibility.

6. **RiskAssessment:**
- Identifyandassesspotentialrisksanduncertaintiesthatcouldaffecttheproject'sviability.
- Developariskmanagementplantomitigateandmanageidentifiedrisks.

7. **StakeholderAnalysis:**
- Identifyandanalyzekeystakeholdersinvolvedinoraffectedbytheproject.
- Developstrategiesforeffectivestakeholderengagementandcommunication.

8. **Decision-Making:**
- Based on the assessment of technical, financial, and market viability, make an informed decision about whether to proceed with the project, modify its scope, or abandon it.

Projectviabilityisanongoingconsiderationthroughouttheprojectlifecycle.

CHAPTER4-ManagementPrinciples

Definitionsofmanagement

Management is a multifaceted concept, and different authors and experts have offered their owndefinitions and perspectives onit. Here are definitions of management by different authors:

1. **Peter Drucker:** "Management is the process of planning, organizing, leading, and controlling an organization's resources to achieve its goals efficiently and effectively."
2. **Henry Fayol:** "To manage is to forecast and plan, to organize, to command, to coordinate, and to control."
3. **Harold Koontz and Cyril O'Donnell:** "Management is the art of getting things done through and with people in formally organized groups."
4. **Max Weber:** "Management is the coordination of all resources through the process of planning, organizing, directing, and controlling in order to attain stated objectives."

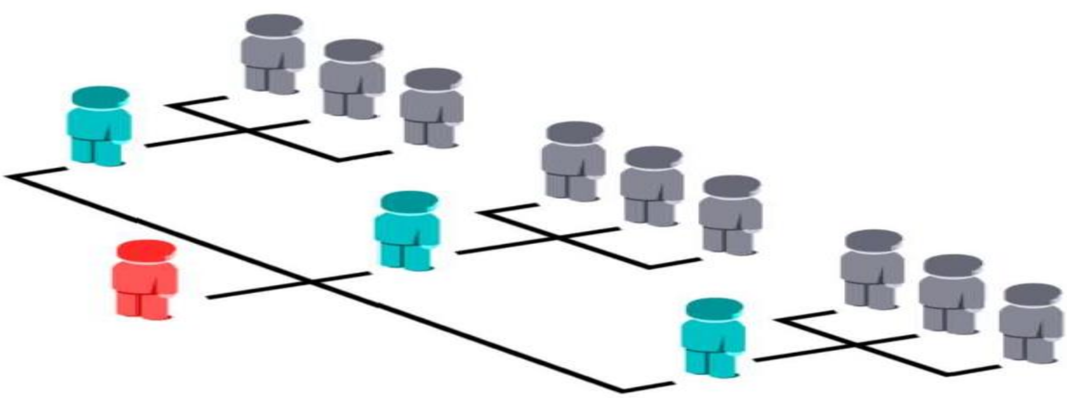
Principlesofmanagement

HenriFayol's14PrinciplesofManagement

1. DivisionofWork:

It refers to dividing the work into different individuals. Fayol recommended that work of all kinds must be divided and allocated as per competence, qualification, and experience of individuals. According to Fayol, “Division of work intends to produce more and better work for the same effort. Specialization is the most efficient way to use human effort.”

For example, a bank has several operations, like collection and payment of cash, issue of cheque books, etc. All those activities are divided and allocated to a different person in the bank. This method of doing work also improves their efficiency and makes them experts in their field.



2. AuthorityandResponsibility:

According to this principle, there should be a proper balance between authority and responsibility. Authority is the duty, which a subordinate is expected to perform. Authority and responsibility go hand in hand. Authority without responsibility leads to irresponsible behaviour, while responsibility without authority will make a person ineffective.According to Fayol, “Authority is the right to give orders andobtain obedience, and responsibility is the corollary of authority. The two types of authority are official authority, which is the authority to command, and personal authority, which is the authority of the individual manager.”

For example, if a foreman is given the responsibility to produce 50 units per day, then he must be given the required authority to achieve this target. If he is not given authority to draw raw material from the stores, then he cannot be blamed.

3. Discipline:

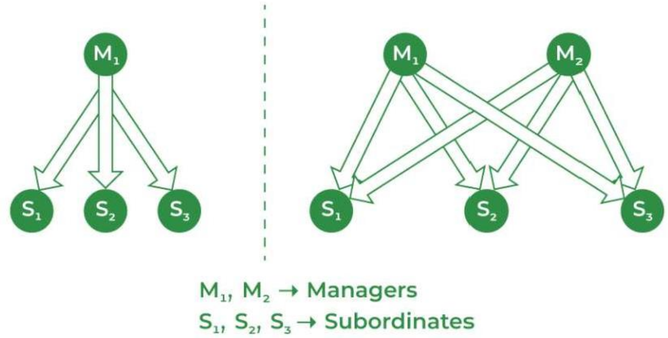
Discipline refers to obedience to the rules and regulations of the organization. Discipline requires good supervision at all levels of management. According to Fayol, good supervision at all levels, clear and fair rules, and a built-in system of penalties will help to maintain discipline. It is a must for all levels of management.

For example, employees must be disciplined to work effectively and efficiently to meet their promises of bonuses, increments, and promotions. Its smoothness systemizes the functioning of an organization by providing better relations between management and employees.

4. UnityofCommand:

Accordingtothisprinciple, eachsubordinateshould receiveordersand beaccountabletoonlythe superior. No person can serve several masters at the same time. If an employee gets orders from two superiors at the same time, then the principle of unity of command is violated, and he will find it very difficult to decide who he must obey first. So, to avoid confusion, employees should receive an order from one superior.

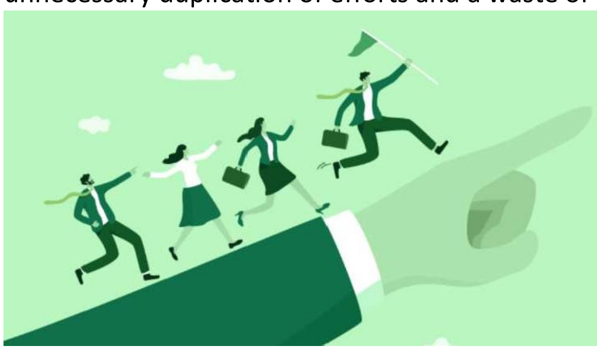
For example, there is a salesperson who is asked to clinch adeal with abuyer andhe is allowedto give a 12% discountby the marketing manager. But the finance department tells him not to offer more than a 6% discount. Inthis case, there is no unity of command, whichwill lead toconfusion anddelay.



5. UnityofDirection:

Thereshouldbeoneplanforagroupofactivitieshavingsimilarobjectives.Relatedactivitiesshouldbe grouped together.Efforts of all the members of the organization should be directed towards common goal. Without unity of direction, unity of action cannot be achieved.

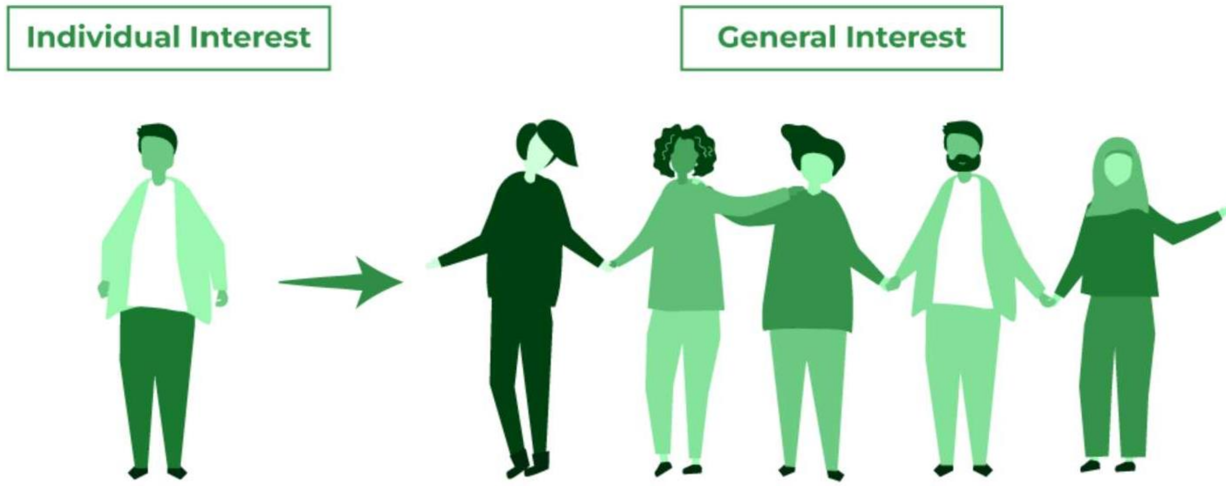
Forexample,ifanorganizationhasfourdepartmentsfordifferentactivities,theneach departmentmust be directed by one superior, and its employees should give their whole efforts to achieving the plan of the organization.Eachdivision shouldhaveitsincharge,plans,andexecutionresources.Thereshouldnotbe an unnecessary duplication of efforts and a waste of resources.



6. SubordinationofIndividualInteresttoGeneralInterest:

According tothisprinciple, theinterest of theorganization must prevailover theinterest oftheindividual. It must be the interest of the organization that should be placed above the interest of employees. It is the dutyofthemanagertoreconcilethem.Ifreconciliationisimpossible,thengeneralinterestmust supersede individual interest. A manager must sacrifice his interest. Manager can achieve their objectives when the organization recovers from financial crises.

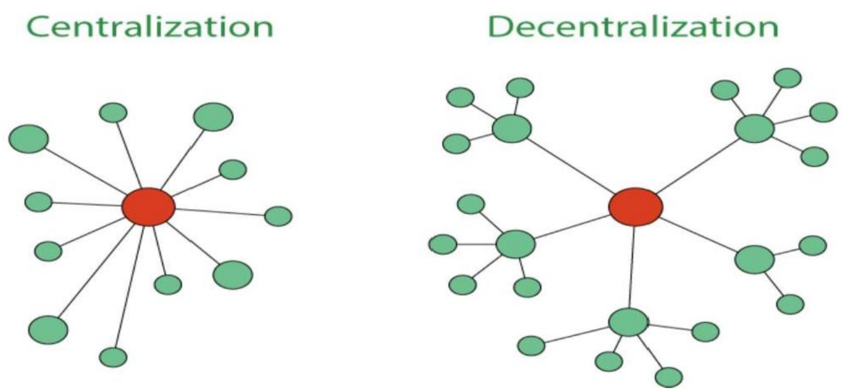
Forexample, thereisacompanythatwantsmaximumoutputfromitsemployees byproviding less salaries. There are employees on the other hand who want to get the maximum salary while working the least. In both situations, the interests of the company will supersede the interest of any one individual. As theinterests oftheworkers and stakeholders aremore important thantheinterests of any oneperson.



7. RemunerationofEmployees:
According to this principle, remuneration should be fair and satisfactory to both employees and the organization. This principle leads to harmonious relations in the organization. Fair remuneration should be determined based on government rules related to wages, financial position of the organization, nature of work,andcost ofliving.Employeesshouldbepaidreasonablewagesfortheirservice,whichshould provide them with a moderate standard of living.
For example, if an organisation earns higher profits, then it should share some of its parts with the employees in the form of bonus.

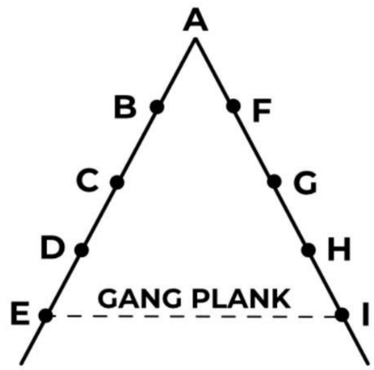
8. CentralizationandDecentralization:
Centralization refers to the concentration of authority at the top level, and decentralization means distribution at all levels of management. According to this principle, there should be a proper balance between centralization and decentralization. The degree of centralization and decentralization depends on various factors, such as experience of the employees, ability of subordinates, size of the organization, etc.Too much centralization lead to loss of control of top management. Therefore, an optimum balance shouldbe maintained according to the need of the organization.

For example, Authority to take vital decisions must be given to the top management, whereas authority related to operational activities must be given to the middle and lower level.



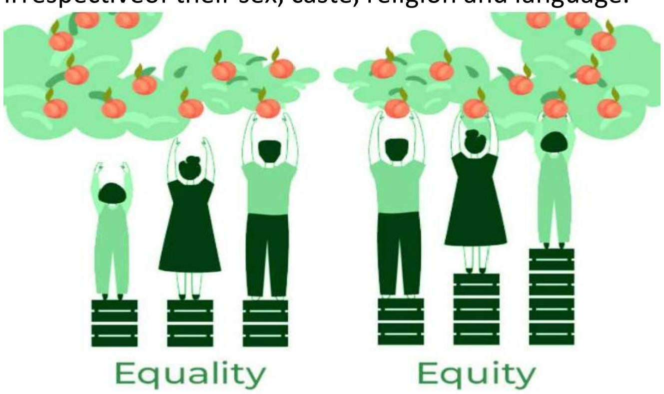
9. ScalarChain:
According to this principle, there is a scalar chain of authority and communication that moves in a straight line from the superior to the lowest subordinate. Henri Fayol permitted a shortcut of chain in case of urgency known as gang plank. Gang plank allows direct communication between two employees of thesame level.

For example, E wants to communicate with I for some important work. The message should orderly move fromE to D, then toC, B,A, andthen down fromA toFthen toG, Hand finallytoI. Thiswilltake lots of time so to avoid this delay in work, Fayol suggested the concept of Gang Plank. In this concept 'E' can communicate directly with 'I' on an urgent matter, thegangplank allows two employees of thesame levelto communicate directly with each but each must enforce to its superior.



10. Order:
According to this principle, there should be a proper place for everything and everyone. Henri Fayol emphasized on two types of order: material order and social order.
In material order, there must be a plan for everything. It ensures fix a place for various material tools.
Whereas in social order, there must be an appointed place for every employee, which ensures a proper and fixed place/cabin for each employee.
Forexample,thereshouldbespecificplaceforforemeninafactorysothattheworkcanbedoneeasily.

11. Equity:
According to this principle, there should not be any discrimination amongst employees based on religion, caste, language, ornationality.Equityensurescoordinatedrelationsbetween superiorsand subordinates. It leads to the smooth and successful working of the enterprise. It improves satisfaction and motivation of the employee, creating relation between manager and employees.
For example, workers doing similar jobs in the same organization should be paid same wages irrespectiveof their sex, caste, religion and language.



12. StabilityofPersonnel:
Accordingtothisprinciple, thereshouldbepropereffort toachievestabilityandcontinuityof employment. Fayol said that employees should be kept in their position for a reasonable timeto showresult stability creates a sense of belonging, and workers are encouraged to improve their quality of work. This will increase the efficiency of employees, and it will also increase the reputation of the organization. Unnecessary labor turnover creates an atmosphere of disbelief. Continuous changes in employees disturb the working environment.

For example, new employees must be given ample time to adapt to new culture and environment of the workplace.

13. Initiative:

According to this principle, workers should encourage and should begiven an opportunityto take initiativein making and executing the plan. Henri Fayol suggested that employees at all levels should be encouragedto take initiative in work. It motivates employees to work better and to take more interest in the organization. The initiative is a powerful motivator of human behaviour and a source of strength for the organization. This increases the mental growth and feeling of belongingness in employees. It increases the commitment of employees toward the organization. Lack of initiatives may create an atmosphere of non- cooperation.

For example, organizations must have an employee suggestion system so that they have feeling of belongingness.

14. EspritDeCorps:

According to this principle, management should take reasonable steps to develop a sense of belongingness and a feeling of team spirit amongst employees. In order to achieve the best possible result, individual and group efforts need tobeintegrated. Production is ateamwork and it requires thefull support of all members.Forthispurpose,amanagershouldreplace‘I’with‘We’inhisconversationstobringateam spirit among the employees. This will develop an atmosphere of mutual trust. It will help in achieving group goals, leading to cordial relations between management and workers.

For example, authority and responsibility meant empowering managers, but now it means empowermentof employees because of flat organizational structures that are gaining ground.

Functionsofmanagement(planning,organizing,staffing,directing,andcontrollingetc.)

1. **Planning**

It is the basic function of management. What to do, when to do & how to do.It bridges the gap from where we are & where we want to be”.It is an intellectual activity and it also helps in avoiding confusion, uncertainties, risks, wastages etc.

For example, in Ram’s organisation, the objective is the production and sale of shoes. He has to decide quantities, variety, and colour, and then allocate resources for their purchase from different suppliers. Planning cannot avoid or stop problems, but it can anticipate them and prepare emergency plans to deal with them when they occur.

2. **Organising**

It is the process of bringing together physical, financial, and human resources and developing productive relationship amongst them achieve goal.

- Identificationofactivities.
- Classificationofgroupingofactivities.
- Assignmentofduties.
- Delegationofauthorityandcreationofresponsibility.
- Coordinatingauthorityandresponsibilityrelationships.

For example, In Ram's enterprise of shoes, there are many duties to be performed. So, he allocates thedutieswithintheorganisationformingvariousgroupstoattaintheplan.Hedecideswhowillperform which task as preparation of accounts, making sales, record keeping, quality control, and inventory control are the tasks to be performed. There is an organisational hierarchy so that reporting is easy and there is a smooth flow within the enterprise.

3. **Staffing**

Staffing refers to the process ofhiringand developingthe required personnel tofill invariouspositions in theorganisation.Itisthatpartofthemanagementprocess,whichisconcernedwithrecruitment, selection, placement, allocation, conservation, and development of human resources. It is a very important aspect of management as it ensures that theorganisation hasthe right number and right kind of people,withtherightqualificationattherightplaces, attherighttimesandthattheyare performingtheright thing. It is also known as the human resource function.

For example, when Ram is hiring personnel for his enterprise, he will recruit different people for different tasks. He must ensure that he is hiring the right people with the right qualification for the right job. For this process, Ram will need an HR manager who will be performing this task for the organisation. This will be a very important part of the management function for his organisation, as it will affect his enterprise in many ways if he selects the wrong people for the job.

4. **Directing**

Direction of management which deals directly with influencing, guiding, supervising, motivating subordinate for the achievement of organizational goals. Direction has following elements:
Supervision- Implies overseeing the work of subordinates by their superiors.
Motivation- Means inspiring, encouraging the sub-ordinates
Leadership- Guides the work of subordinates in desired direction.
Communications- Is the process of passing information, experience, opinion etc from one person to another.

5. **Controlling**

The purpose of controlling is toensure proper progress is being made towards the objectives and goals andto correct any deviation. Therefore, controlling has following steps:
a. Establishmentofstandardperformance.
b. Measurementofactualperformance.
c. Comparisonofactualperformancewiththestandardsandfindingoutdeviationifany.
d. Correctiveaction

LevelofManagementinanOrganization

Managementisagroupactivity,whichmeansthateveryorganizationhasanumberofindividualsplaced atdifferentpositionsandareprovidedwithdifferentresponsibilitiesaccordingtotheirskills,education, etc.Forthefulfilmentoftheresponsibilitiesgiventothemembersofanorganization,theyarealso provided with the required authority. Based on the amount and extent of responsibility and authority givento these members, a chain of superior-subordinate relationships is formed.

This chain of superior-subordinate relationships is known as the Levels of Management. There are three levels of management; viz., Top Level Management, Middle Level Management, and Operational Level Management

ThreeLevelsofManagement

1. **TopLevelManagement**

Theseniormostexecutivesoftheorganizationarefoundatthetoplevelofmanagem nt.Thetoplevelof an organization’s management consists of the Board of Directors, Managing Director, Chairman, Chief Executive Officer, Chief Operating Officer, Vice-President, President, General Manager, and other Senior Executives. The managers at the top level of management of an organization are responsible for its survival andwelfare.These managers perform stressful and complex work that demands long hours andcommitment towards the company.

FunctionsoftheTop-LevelManagement

I) Determination of the objectives for the organization: The managers at the top-level management formulates thegoals orobjectivesfor an organization along with thestrategies to achievethosegoals.

ii) Framing of plans and policies: For the achievement of the pre-determined goals or objectives of an organization, it is essential to formulate proper strategies, plans and policies within the organization. The top-level managers are responsible for the formulation of these plans and policies.

iii) Coordination and control of the performance: Based on the overall pre-determined objectives of the organization, the top-level managers coordinate and control different activities of different departments of the organization.

iv) Analysis of the business environment: Business environment of an organization plays a crucial role in its success and survival. The managers at the top level of management of an organization carefully analyse the business environment and its implication and make necessary decisions for better results.

v) Setting up an organizational framework: For the success and survival of an organization, it is essential to form a proper framework or structure within the company. The top-level managers are responsible for the determination of the organizational framework for the proper and successful execution of its plans and policies.

vi) Assembling of the resources: Achievement of the organizational goals requires different resources of materials, machines, men, money, and materials. It isthe dutyof themanagers at thetop-level managementtoarrangetheseresources.

2. **MiddleLevelManagement**
The next level of management is the Middle Level, which serves as a link between the Top-Level Management and the Lower-Level Management. The middle level management is superior to the lower or operational level management and subordinate to the top-level management. The middle level of an organization's management consists of different functional department heads, such as Departmental Managers including Production, Purchase, Finance, Personnel, Marketing Managers, and other executive officers for different departments such as plant superintendent, etc. The employees or members of the middle level management are responsible to thetop-level management for their performance.
FunctionsoftheMiddleLevelManagement
I) Interpretation ofthepoliciesframed bytheTop-Level Management:Asthemiddle levelmanagement acts as a subordinate to the top-level management, the managers at this level have to clearly interpret the plans and policies framed by the managers at the top-level management to the managers at the lower or operational level management.
ii) Selection of suitable operative and supervisory personnel: To perform any function properly, an organization needs the required personnel. It is the duty of the Middle Level Managers to make sure that the organization has sufficient personnel with them to perform the functions and duties better. For the fulfilment of this duty, the middle level managers recruit and select suitable employees for different departments based on the applicant's skills, etc., and the firm's requirements.
iii) Assigningofdutiesand responsibilitiestotheLower-Level Management:Themiddlelevelmanagers acts as superior to the operational level managers. These managers have to assign respective duties and responsibilities to the lower-level managers and coordinate with them regarding the activities of different work units.
iv) Motivating employees to get desired objectives: An organization can effectively and efficiently achieveits desired goals only when its employees are motivated enough to work towards the betterment of the organization. Therefore, the managers at the middle level management motivate the employees towards the achievement of the organizational goals and improvement of their performance.
v) Cooperating with the entire organization: As middle level management serves as a link between the top-level management and the lower-level management,the managers at this level have tocooperate withevery other department for the smooth functioning of the organization.

3. Lower-LevelManagement
The last level of management is the lower-level management and is also known as the Supervisory or Operational Level Management. The managers at the lower level of management play a crucial role in the proper management ofan organization, asthey directly interact with theactual work force and interpret the instructions of the middle level managers to them. The responsibility and authority of the lower-level managers depend upon the plans and policies formed by the top-level management. The lower-level management consists of foremen, supervisors, section officers, superintendents, and other managers who have direct control over the operative employees of the organization.

FunctionsoftheLower-LevelManagement
I) Issuing of orders and instructions: The managers at the operational level management issue orders to the workers and supervisors and instructs them on their roles, responsibilities, and authority. Besides, these managers also control the functioning of the workers.
ii) Preparation of plan for activities: The lower-level managers plan the day-to-day activities of the organization. Besides, these managers also assign work to the subordinates, guide them for the same, and take corrective measures wherever and whenever necessary.
iii) Assigning and assisting in work: The job or responsibility of the lower-level managers includes assigning work tothe subordinates and assistingthem with thework.They do so byexplaining thework procedure

totheemployeesandsolvingtheirproblemsforbetterperformance.

iv) Representing workers' grievances: As the managers at the lower-level management are in direct contact withthemanagersatthemiddlelevelmanagement,theylistentothegrievancesoftheworkersand report those issues to the middle level managers.

v) Ensuring asafe and proper workenvironment:The lower-level managers areresponsibleforproviding theworkforce with asafeandproper workenvironment.Theyalsohavetomaintainproperdiscipline and a good atmosphere within the organization, as it motivates the employees to work towards the accomplishment of the organizational goals.

CHAPTER5-FunctionalAreasofManagement

Functionalareasofmanagement refertovariousdivisionsordepartmentswithinanorganizationresponsiblefor specifictasks,functions,oractivitiesaimedatachievingtheorganization'sgoalsandobjectives.Thesefunctional areasarecriticalfortheefficientandeffectiveoperationoftheorganization,andtheyoftencorrespondtospecific managerial roles and responsibilities.

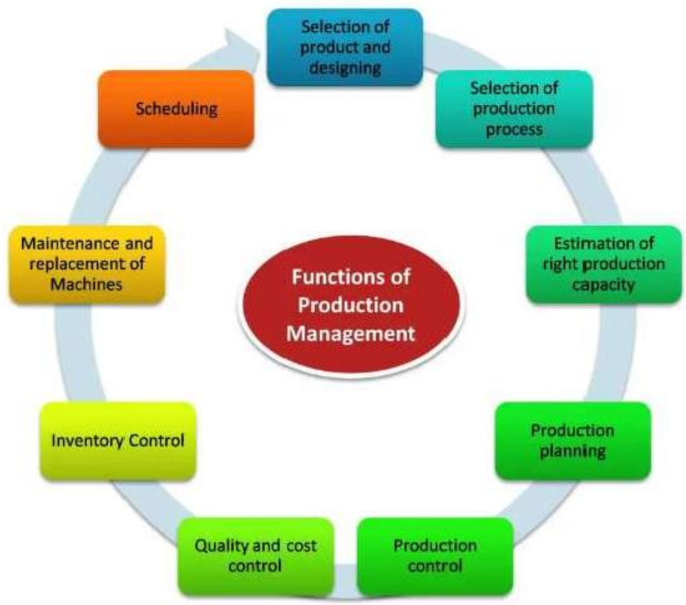
Productionmanagement

WhatisProduction Management?

Productionmanagementisthefieldofstudythatdealswithplanning,organizing,controlling,anddirectingthe production activities of the organization.

Itdealswiththe conversionof rawmaterialsintofinishedproducts andalsowithdeterminingthe qualityof the finishedgood.Itsprimaryobjectiveistoproducegoodsandserviceswhichareoftherightquality,quantityandis produced at the right time with minimum cost.

Functions,Activities



1. SelectionofProduct andDesign—

Selectionofproductanddesigningof thesame plays apivotalrole inabusiness venture.Itis imperativeforthe companytoapproachthemarketwitheconomicalandvaluableproductsfromtimetotimewhichshallensurethe success and progress of the company.

2. SelectionofProductionProcess—

Theproductionprocessshouldbeplannedwaybeforeitactuallystarts.Aftertheselectionofroductisdoneand thedesignhasbeendecided,thereaftercomestheselectionoftheproductionprocess.Itisoneoftheimportant functions of production management.

3. EstimationofRightProductionCapacity—

Theselectionoftheright productioncapacityplaysahugerole inproductionmanagement.Forthis,theright demandfor theproductshall beestimated, andthenitmustmatchwiththeproductioncapacity.

4. ProductionPlanning—
Onemajorfunctioninproductionmanagementistoplantheproductionprocess.Theproductionmanagement hereby must decide on the routing and scheduling.

5. ProductionControl—
Controllingtheproductionprocessisthenextjob ofparamountimportance,thattheproduction managershall handle.Theproductionplanningandtheactualprocessshallbetalliedandifanydeviationsfromtheactualplanning are found, that must be met with necessary steps for its correction.

6. QualityandCostControl—
Qualityandcostcontrolplaysahugeroleinthecompany'supliftment,thebuyerswanttheproductstobeoftop-notchqualityatfairandlowprices.Theproductionmanagerthushastotrytomaintainthequalityoftheproduct andshouldtry to lower the production cost,asit shall inturn lowerthe cost of the product.

7. InventoryControl—
Inventorycontrolisalsopartofproductionmanagement.Theinventorylevelmustbemonitoredbytheproduction manager. Overstocking and understocking of inventories are not appropriate.

8. MaintenanceandreplacementofMachines—
Theproductionmanagementensuresthatmachineryandequipmentareproperlymaintainedandreplaced.Allthe machinerythatwouldbeneededfortheproductionshallbechecked priortotheactual productionprocess.

9. Scheduling—
Whenitcomestotakingamanufacturingprocesstothenextstage,productionschedulingiscrucial.Theallocation ofrawmaterials,labour,andprocesses to manufacturegoods for customersis knownasthe production schedule.Theobjectiveofproductionschedulingistomakethemanufacturingprocessrunassmoothlyaspossible bymatchingtheproductionrequirementswith theavailableresourcesin themostcost-effectivewaypossible.

Productivity

Productivityinproductionmanagementisacriticalmeasureofhowefficientlyandeffectivelyacompanyutilizesits resources(suchaslabor,machinery,materials,andtime)toproducegoodsorservices.Improvingproductivityisa keygoalfor organizationsbecauseitcanleadto increasedprofitability,competitiveness,andoveralloperational efficiency.

1. **Outputvs.InputRatio:**Productivityisoftenmeasuredastheratioofoutput(e.g.,thenumberofunitsproduced orservicesdelivered)toinput(e.g.,laborhours,rawmaterialsused,capitalinvested).Ahigheroutput-to-input ratio indicates greater productivity.
2. **LaborProductivity:**Thesemeasureshowefficientlylaborisusedintheproductionprocess.Itcanbecalculated astheratioofoutputtolaborhoursorthevalueofgoodsproducedperemployee.Strategiestoimprovelabor productivity include training, skill development, and optimizing work processes.
3. **MachineandEquipmentProductivity:**Measuringhoweffectivelymachineryandequipmentareutilizedin production is crucial. Downtime,maintenance schedules,and capacity utilization are factors that impact this aspect of productivity.

Qualitycontrol

Quality control (QC) is a procedure or set of procedures intended to ensure that a manufactured product or performedserviceadherestoadefinedsetofqualitycriteriaormeetsthe requirementsoftheclientorcustomer

ProductionPlanning,andcontrol

Production planning and control (PPC) is a comprehensive process withinproduction management that encompasses theplanning,execution,andmonitoring ofproduction activitiestoensurethat productsaremanufactured efficiently,onschedule,andatthedesiredqualitylevel.Itinvolves various functionsandactivities aimed at coordinating resources, processes, and schedules to meet production goals.

InventoryManagement

WhatIsInventoryManagement?

Inventory management refers to the process of ordering, storing, using, and selling a company's inventory. Thisincludesthemanagementofrawmaterials,components, andfinishedproducts,aswellas warehousing and processing of such items.

A. NeedforInventorymanagement-

1. ManagingFinances

Inventorymanagementhelpsbusinessesunderstandwhichproductsaremorevaluableinsalesandearningprofits. This allows businessestoeliminateunnecessarycapitalblockagebystrategicallyplanningtheirfutureinventory orders.

2. TrackingInventory

Inventorymanagementprovidesa completedetailingoftheinventoryanditslocation.Itisespeciallyusefulin assigningdistributionchannelstotheinventory.Inventorymanagementeasestheprocessofmanagingmorethan one shop/store or warehouse.

3. AvoidingLateDeliveries

Businessesarelikelytofacestock-outsiftheydonothaveproperinventorymanagementthat'swheretheycanuse theinventory management software.Stockoutscanresultinlatedeliveriesand unhappy customers.Inventory managementconsidersallplausiblefactorsandfluctuationsandprovidesstockoutwarningsfrombeforehand.This helps in improving customer experiences, thus increasing sales.

4. ManagingTimeandEffort

Properinventorymanagementleadstoawell-arrangedwarehouseorstore.Thismakestrackingproductsinhand andproducts onorder easyand lesstime-consuming.It helps inincreasing productivityand efficiency.

5. PredictingFutureSales

Inventorymanagementhelpsinpredictingfuturesalesbasedonpasttransactiondata.Thishelpsbusinessesto prepare well for the future and meet customer expectations.

6. EnhancingCustomerLoyalty

Effective inventory management warns businesses about deteriorating inventory from beforehand. This ensures that customers areonlyprovidedwith top-notchqualityproducts.Enhanced customerexperienceleads torepeat customers.

B. Models/TechniquesofInventorymanagement

Threeofthemostpopularinventorymanagementmodelsare EconomicOrderQuantity(EOQ),InventoryProduction Quantity, and ABC Analysis.

Eachoftheinventorymanagementmodelshasanalternatewaytodealwithassistingyouinknowinghowmuch stock you ought to have available. Things you choose toutilize rely upon your business.

1. EconomicOrderQuantity(EOQ)

BesteCommercetradersandretailoperatorsaredrivenbyaprudentrationale to keepawayfrom stockouts. Utilizingdeterministicinventorymanagementmodels –liketheEconomicOrderQuantity(EOQ)model– willassist youwithprocessinganidealrequestamountthatlimitsstockexpenses(andkeepsawayfromthemostdreadedpart ofeCommerce).TheEOQisarecipethatfiguresthemostprudent number ofthingsa business shouldrequestto limit costs and boost esteem when reloading stock.

EOQ=2DS/C

D=AnnualDemand C=CarryingCost S=OrderingCost

Inanycase, theEOQmodelexpectsa (consistent)requestforanitemandpromptsaccessibilityofthingsto be restocked.Itdoesnotrepresentoccasionaloreconomicfluctuations.Itexpectsfixedexpensesofinventoryunits, requesting charges, and holding charges. No stockouts are allowed.

2. InventoryProductionQuantity

Also calledEconomicProductionQuantity,orEPQ,thiskindofinventorymanagementmodeldisclosesto youthe numberof items your business should arrangein asolitarycluster,inordertodiminishholdingexpensesand arrangementcosts.Itexpectsthateachrequestisconveyedbyyourproviderinpartstoyourbusiness,insteadofin one full item.

Thismodelisanaugmentationofthe EOQmodel.Thedistinctionbetweenthetwomodelsisthe EOQmodelexpects providersareconveystockinfulltoyourclientorbusiness. This model could be the best choice for your business if:

Yourbusinesswillgenerallyrequestinventoryfromprovidersinpartsasopposedtoonefullrequest,forexample, for an automotive organization.

Interestinitemsisconsistent overvariousperiodsoftime.

3. ABCAnalysis

Themorecashexplicitinventorypresentstoyou,themoresignificantitistoyou.ABCexaminationarrangesyour inventorydepending ondegreesof significance.Byrealizingwhichstockis the main,yourealize whereto concentrate.Tobebest,ABCAnalysisisoftenutilizedwithotherinventorymanagementmodels,liketheJustin Time (JIT) technique.

StockissortedintoeitherbunchsA,B,orC.Sohowwouldyouknowwhichclasstoputinventoryunder?Itdepends on the 80/20 guideline, otherwise called the Pareto Principle:

CategoryA:Inventoryunderthisclassificationgetsthemostcashandisjustamodestquantityofyourall-outstock. Itaccountsforjust20%ofyourstockhowevergets70%ofyourcompleteincome.CategoryAstockisgiventhemost measure of consideration and has tight requesting controls set up.

CategoryB:UnlikeCategoryAstock,thisCategoryBstockisnotfundamentalforyourbusinesstoendure,however, it actually matters. It is 30% of your stock with 25% income.

CategoryC:InventoryarrangedunderCategoryCis50%ofyouritemswith5%income.Thisstockdoesnotgetas muchbenefitas AandB,however,it issteady. Inventorymanagementisquitefreeheresinceit getsamodest quantity of pay.

FinancialManagement

WhatisFinancialManagement?

Insimpleterms,financialmanagementisthebusinessfunctionthatdealswithinvestingtheavailablefinancial resources in a way that greaterbusiness success and return-on-investment (ROI) isachieved.

FunctionsofFinancialmanagement

1. **DeterminetheCapitalRequirement:**Thefirstfunctionofafinancialmanageristoestimatethetotalcapital requiredbythebusinesstofulfilitsmissionandobjectives.Theamountofcapitalrequiredisdeterminedby severalfactors,including the size of the business,expected profits,companyprograms,and policies.

2. **EstablishtheCapitalStructure:**Afterestimatingtherequiredcapital,thestructuremustbedetermined.Short-termandlong-termequityisusedinthestructure.Itwillalsodeterminehowmuch capitalthecompanymust ownand howmuch mustberaisedfrom outsidesources,such asIPOs(Initial PublicOfferings),andsoon.

3. **DeterminetheFundingSources:**Thenextfinancialmanagementfunctionistodeterminewherethecapitalwill come from.Thecompanymaydecideto takeout bankloans,approachinvestorsfor capitalin exchange for equity,orholdan IPOtoraisefundsfromthepublicinexchangeforshares.Thesourceoffundsischosenand ranked based on the benefits and limitations of each source.

4. **FundInvestment:**Anotherfunctionoffinancialmanagementisdecidinghowtoallocatefundstoprofitable ventures.The financial manager must calculate the riskand expectedreturn for eachinvestment. The investmentmethodsmust alsobe chosenso thatthereisminimallossof fundsandmaximum profit optimization.

5. **ImplementFinancialControls:**Controlscantaketheformoffinancialforecasting,costanalysis,ratioanalysis, profitdistributionmethods,andsoon. Thisinformationcanassistthe financialmanagerin makingfuture financial decisions for the company.

6. **MergersandAcquisitions:**Theybothareonemethodofbusinessgrowth.Buyingneworexistingbusinesses thatalignwiththebuyercompany'smissionandgoalsisreferredtoasanacquisition.Amergeroccurswhen two current companies combine to form a new company.

7. **WorkonCapitalBudgeting:**Capitalbudgetingreferstodecisionsmaderegardingthepurchaseofassets,the construction ofnewfacilities,andtheinvestmentinstocksor bonds.Prior to makingasignificant capital investment, organizations must first identify opportunities and challenges.

ManagementofWorkingcapital

Workingcapital managementensuresthebestutilizationofa business's currentassets andliabilitiesforthe company'seffectiveoperation.Themainaimofmanagingworkingcapitalistomonitoracompany'sassetsand liabilities to maintain adequate cash flow and meet short-term business goals.

Costing:
Costmanagementistheprocessofplanningandcontrollingthecostsassociatedwithrunningabusiness.Itincludes collecting,analyzing, and reportingcostinformationtomoreeffectivelybudget,forecastandmonitorcosts.

BreakevenAnalysis-Abreak-evenanalysisisafinancialcalculationthatweighsthecostsofanewbusiness,service orproductagainsttheunitsellpricetodeterminethepointatwhichyouwillbreakeven.Inotherwords,itreveals the pointat which you will have sold enoughunits to cover all of your costs

Book Keeping-Bookkeepingisthe process ofrecordingyour company'sfinancialtransactionsintoorganized accountsonadailybasis.Itcanalsorefertothedifferentrecordingtechniquesbusinessescanuse.Bookkeepingis an essential part of your accounting process for a few reasons
Journalentry-Journalentriesrecordalltransactionsforabusiness.Transactionsarebroadlydefinedasanyfinancial activity thatimpactsthebusiness.Theyarenotlimitedtothebuyingand selling ofgoodsandservices,but include anyexchange of monetary value, suchas interest payments,depreciationexpenses,or payroll.
PettyCashbook-Thepettycashbookisarecordationofpettycashexpenditures,sortedbydate.Inmostcases,the pettycashbookisanactualledgerbook,ratherthanacomputerrecord.Thus,thebookispartofamanualrecord-keepingsystem.Thepettycashbookhasdeclinedinimportance,as companies aregraduallyeliminatingalluseof petty cash, in Favor of using company credit cards.
P&LAccounts-The purpose of theprofit and loss statement,alsoreferredtoastheP&L,is to showyou, and any investors,whetheryoursmallbusinessisprofitable.Aprofitandlossstatementdisplaysthecompany'srevenueand expenses, which, when combined, result in the net income
BalanceSheets-Abalancesheetgivesyouasnapshot ofyourcompany'sfinancialposition atagivenpointintime. Alongwithanincomestatementandacashflowstatement,abalancesheetcanhelpbusinessownersevaluatetheir company's financial standing.

MarketingManagement
ConceptofMarketing-Marketingconceptisasetofstrategiesthatthefirmsadoptwheretheyanalysetheneedsof theircustomers andimplement strategiestofulfil thoseneeds whichwillresultinan increaseinsales,profit maximisationand also beat the existing competition.
Marketing Management-Marketing managementrefers tothe control and operations of various marketing activities andthepeopleinvolved inthoseactivities,suchasmanagers,marketingmanagementprofessionals,contractors, andmore.
MarketingTechniques(onlyconcepts)

1. **Contentdriven**- Contenthas proventobethe hottestword duringthispandemic-strickenphaseand itis no secretthatifyourcontentisgoodandworthy,thenitwillberecognizedandreceivedwell.Infact,themajority ofB2Bcontentmarketersuseeducationalassetstonurtureleadsandbuildaudiencetrust,whichisessentialfor inboundmarketing.Withthecurrent scenarioit has becomeallthemoreimportanttouse catchy,interesting and correct content so as to engage ina right manner with your audience.
   RedBull-Theycreatevideos,articles,andeventscenteredaroundextremesports,appealingtotheirtarget audience's adventurous spirit
   GoPro-Theycurateandshowcasetheseuser-generatedvideosontheirwebsiteandsocialmedia,creatinga community around their brand.
   Dove-Dove'scontent-drivenmarketingrevolvesaroundtheir"RealBeauty"campaign.

2. **Personalized messages-** These little personalized marketing messages tend to inculcate a special bond between theconsumerandthebrand.Suchmessages alsogivea premiumfeelto theaudienceswhichleavesa lasting impression in the minds.

H&M-H&M'sloyaltyprogramofferspersonalizeddiscountsandearlyaccesstosalesevents.Theyusepurchase historyand style preferences tosend tailoredofferstomembers,encouragingrepeat purchases.

3. **Creativity-**AccordingtoNataliaWulfe,CMOofdigitalmarketingagencyEffectiveSpend,platformslikeGoogle andFacebook aretaking morecontrol of audiencetargetingastheiralgorithms havebecomeadept at understanding whichad images will derive the best click-through and conversionrates.

Tesla-Tesla'sCEOElonMuskisknownforhiscreativeapproachtomarketing.Heoftenusessocialmediaplatforms tomakemajor announcements andengageswith customersdirectly, creatingastrongsenseof communityand excitement around Tesla's products.

Blendtec-WillItBlend?"videoseries,wheretheyblendedunusualitemslikeiPhonesandgolfballs,showcasedthe power of their blenders in a creative and entertaining way.

4. **Investinoriginalresearch-**Investinginoriginalresearchisapowerfulmarketingtechniquethatcanestablisha brandasanauthorityinitsindustry,generatemediacoverage,attractbacklinks,andprovidevaluablecontent for various marketing channels.Market Surveysand Reports,Webinars and Workshops,

5. **Regularupdation**

Anddon’tforgetthecontentyou’vealreadypublished.

6. **TryingHARO**

Anotherpopularstrategywasrespondingtoqueriesfromjournalistsonplatformslike HelpAReporterOut(HARO), as they are constantly looking for expert advice in a range of fields.

7. **Guestbloggingopportunities**

Allowingmorepeopletocreatecontentforyourbrandthroughguestbloggingisanexcellentwaytoderivealotof organic traffic and promising leads for a company.

8. **SEO-**SearchEngineOptimization(SEO)isacrucialdigitalmarketingtechniqueaimedatimprovingawebsite's visibilityinsearchengineresultspages(SERPs).ManycompaniesuseSEOtechniquestoimprovetheironline visibility and attract organic traffic.

Conceptof4Ps(Price,Place,Product,Promotion)

ThefourPs

ThefourPsformadynamicrelationshipwithoneanother.Ratherthanonetakingpriorityovertheother,eachis considered equally important in crafting a strategic marketing plan.

Product

Theproductisthegoodsorservicebeingmarketedtothetargetaudience.

Generally,successfulproductsfilla neednot currently beingmetinthe marketplaceorprovideanovelcustomer experiencethatcreatesdemand.Forexample,theoriginaliPhonefilledaneedinthemarketforasimplifieddevice that paired a phone with an iPod.

Asyouareworkingonyourproduct,itisessentialtoconsideryourtargetaudienceandtheiruniqueneeds.Some questions to consider when working on a product include:

- Whatisyourproduct?
- Whatdoesyourproductdo?Doestheproductmeetanunfilledneedorprovideanovelexperience?
- Whoisyourproduct’stargetaudience?
- Howis yourproductdifferentfrom whatothers offer?

Price

Priceisthecostofaproductorservice.

Whenmarketinga productor service,itis important topicka pricethat issimultaneouslyaccessibletothe target marketandmeetsabusiness'sgoals.Pricingcan have asignificantimpact onthe overallsuccessofaproduct.For example,ifyouprice yourproducttoo highforyour targetedaudience, veryfewwilllikelypurchaseit.Similarly,if youpriceyourproducttoolow,thensomemightpassitupsimplybecausetheyareconcerneditmightbeofinferior quality and cut into your potential profit margins.

Toidentifyasuccessfulprice,youwillwanttothoroughlyunderstandyourtargetaudienceandtheirwillingnessto payforyourproduct.Somequestionsyou mightaskyourselfasyouareconsideringyourproduct's priceinclude:

- Whatisthepricerangeofyourproduct'scompetitors?
- Whatisthepricerangeofyourtargetaudience?
- Whatpriceistoohighforyouraudience?Whatpriceistoolow?
- Whatpricebestfitsyourtargetmarket?

Place

Placeiswhereyousellyourproductandthedistributionchannelsyouusetogetittoyourcustomer. Likeprice,findingtherightplacetomarketandsellyourproductiskeytoreachingyourtargetaudience.Ifyouput yourproductinaplacethatyourtargetcustomerdoesn'tvisit—onoroffline—youwilllikelynotmeetyoursales target.Therightplace can helpyouconnect with your targetaudience and setyouupfor success.

Todecidethebestplacetomarketandsellyourproduct,youshouldconsiderresearchingthephysicalordigital placeswhereyourtargetaudienceshopsandconsumes information.Somequestionsto considerinclude:

- Wherewillyousellyourproduct?
- Wheredoesyourtargetaudienceshop?
- Whatdistributionchannelsarebesttoreachyourtargetmarket?

Promotion

Promotionishowyouadvertiseyourproductorservice.Throughpromotion,youwillgetthewordoutaboutyour product with an effective marketing campaign that resonates with yourtarget audience.

Therearemanydifferentwaystopromoteyourproduct.Sometraditionalmethodsincludewordof mouth,print advertisements,andtelevisioncommercials.Inthedigitalage,though,thereareevenmoremarketingchannelsthat youcanuse topromote yourproduct,suchas contentmarketing,emailmarketing,andsocialmediamarketing.

Somequestionsto considerasyouareworkingonyourproductpromotioninclude:

- Whatisthebesttimetoreachyourtargetaudience?
- Whatmarketingchannelsaremosteffectiveforyourtargetaudience?
- Whatadvertisingapproachesaremostpersuasivetoyourtargetaudience?

Human Resource ManagementFunctions of Personnel Management

FunctionsofPersonnelManagement:1.ManagerialFunctions2.OperativeFunctions!

1. **ManagerialFunctions:**

Thefollowingarethemanagerialfunctions(viz.planning,organising,directingandcontrolling)performedbya personneldepartment:

A. PersonnelPlanning:

Planninglaysdownapre-determinedcoursetodosomethingsuchaswhattodo,howtodo,wheretodo,whoisto doetc.Apersonnelmanagerplansinadvancethetrendin wages, labour market,uniondemands etc.Through planning, most of the future problems can be anticipated.

B. Organising:

AccordingtoJ.C.Massic,"Anorganisationisastructure,aframeworkandaprocessbywhichaco-operativegroupof humanbeingallocatesits taskamongits members,identifiesrelationships andintegratesits activities towards commonobjectives."Thepersonnelmanagerhastodesignthestructureofrelationshipsamongjobs,personneland physical factors so that the objectives of the enterprise are achieved.

C. Directing:

Thisfunctionrelatestoguidanceandstimulationofthesubordinatesatalllevels.Thepersonnelmanagerdirectsand motivatestheemployeesofhisdepartmentsothat theyworkwillinglyandeffectivelyforthe achievement of organisationalgoals,

D. Controlling:

Apersonnelmanagerhastoconstantlywatchwhetherthereisanydeviationfromtheplannedpath.Controllingis concerned withremedial actions.Continuousmonitoringof thepersonnelpoliciesrelatingto training,labour turnover,wagepayments,interviewingnewandseparatedemployeesetc.,is thebackbone of controlling.

2. OperativeFunctions:

TheoperativefunctionsofthePersonnelDepartmentarealsocalledservicefunctions.Theseinclude.

(a) Procurementfunction
(b) Development
(c) Promotion,transfer,andterminationfunction
(d) Compensationfunction
(e) Welfarefunction
(f) Collectivebargainingfunction
(g) Miscellaneousfunctions.

ManpowerPlanning-Manpoweristheprimaryresourceforanycompany.Initsabsence,otherresourceslikeraw materials,money,machinery,etc.,cannot beused. Workersare neededforeveryunit, eventhosewitha high degree of automation, such as pharmaceuticals.

This iswhy manpower isan essentialresourcethatneedsplanningmore thananyotheraspect ofrunning a company.Tobecomeasuccessfulmanager,youmustlearntheimportanceofmanpowerplanning.Manpower planning isevaluating,strategizing,andassessingtheworkers' skills tocreatemanpower teamsthatworkat optimum productivity within an organization.

Recruitment- Recruitment referstotheprocessof identifying,attracting, interviewing,selecting,hiringand onboardingemployees.Inotherwords,itinvolveseverythingfromtheidentificationofastaffingneedtofillingit. Depending onthe sizeof anorganization,recruitmentis the responsibility of arangeof workers.

Sourcesofmanpower

Selection process-Thereareapproximatelyfivetosevensteps inatypicalemployeeselectionprocess.Theexact stepswillvarybycompany,butthebasicsincludeannouncingthejob,reviewingapplications,screeningcandidates, interviewing, final selection, testing, and making an offer.

MethodofTesting-variousmethodsoftestingareusedtoassesstheskills,abilities,knowledge,andsuitabilityof candidates for specific job roles

Cognitive Ability Tests:,Personality Tests, Emotional Intelligence (EI) Tests, Skills Tests,Situational Judgment Tests (SJTs),GroupExercises andAssessmentCenters,Interviews(Behavioral,Situational,or Competency-based):

Methodsof Training&Development-

1. **On-the-jobMethods**

Jobinstructiontraining,Coaching,Mentoring,JobRotation,SpecialProjects;

2. **Off-the-jobMethods**

Specialcoursesandlectures,ConferencesandSeminars,SelectedReading,Casestudymethod,Brainstorming

PaymentofWages

thepaymentofwagesisacriticalaspectofmanagingtheworkforceandensuringemployeesarecompensated accuratelyandtimelyfor theirwork.Severalkey components areinvolved in thepaymentof wages:

SalaryStructure:
PayrollProcessing:
TimeandAttendanceTracking:

CHAPTER6-LeadershipandMotivation

a) Leadership

DefinitionofLeadership

Leadershipmeanscreatingandplanning,securingresources,andlookingoutforandimprovingerrors.Leadershipis aboutmotivatingpeopleto worktogetherand cooperate withthemselvesandinsome cases,otherteams,to achieve a certain goal.

Need/ImportanceofLeadership

Leadershipisimportantbecauseit inspires,motivates,and setsanexamplefor peopletoaccomplishpositive changesintheworld.Leadersestablishavision,provideaplanofaction,andbuildstrongrelationshipswiththeir followers. As a result, they guide people to accomplish incredible feats together.

Qualitiesandfunctionsofaleader

QualitiesofaLeader:

1. **Visionary:**Leadershaveaclearvisionofthefutureandcanarticulateittoothers.Theyinspireandmotivate others by painting a compelling picture of what can be achieved.
2. **Integrity:**Leadersactwithhonesty,transparency,andethicalprinciples.Theyearnthetrustoftheirteam members by demonstrating integrity in their actions and decisions.
3. **Confidence:**Confidenceintheirabilitiesanddecisionsenablesleaderstomakeboldchoicesandinspire confidence intheir team members.Confidence breedstrust and encourages others tofollow.
4. **Effective Communication:** Leaders are skilled communicators. They can conveytheir ideas clearly, listenactively, andprovidefeedbackeffectively.Communicationskills helpin aligningtheteamwiththe visionandgoals.
5. **Empathy:**Empatheticleadersunderstandthefeelingsandperspectivesofothers.Theycanrelatetothe challengesfaced bytheir teammembers and demonstrate compassionand understanding.
6. **Decisiveness:**Leadersmaketimelyandinformeddecisions.Theyweighttheprosandcons,gathernecessary information, and have the courage to make tough choices, even inuncertain situations.
7. **Adaptability:**Leadersareopentochangeandcanadapttheirstrategiesinresponsetoevolvingcircumstances. Theyare flexible and encourage their teams to embrace change as well.
8. **Inspiration:**Inspirationalleadersmotivateothersthroughtheiractions,words,andbehavior.Theyleadby example and inspire their team members to achieve their full potential.
9. **Resilience:**Leadersbouncebackfromsetbacksandfailures.Theydemonstrateresilienceinthefaceof challengesand encourage their teamto learn from failuresand keep moving forward.
10. **Courage:** Courageous leaders take calculated risks and confront difficult situationsor individuals when necessary. They stand up for what is right, even if it's not popular.

FunctionsofaLeader:

1. **SettingDirection:**Leadersprovideaclearsenseofpurposeanddirection.Theydefinegoalsandcreatea roadmap for the team to follow.
2. **DecisionMaking:**Leadersmakedecisionsthatimpacttheteamandtheorganization.Theygatherinformation, analysee options, and make choices that align with the overall objectives.
3. **Motivation:**Leadersinspireandmotivatetheirteammemberstoperformattheirbest.Theyrecognize achievements, provide positive reinforcement,and create a positive work environment.
4. **ConflictResolution:**Leadersaddressconflictswithintheteam,mediatedisputes,andfindsolutionsthat promote harmony and collaboration among team members.
5. **Resource Allocation:** Leaders allocate resources effectively, including human resources, time,and budget, to ensure tasks are completed efficiently and within constraints.
6. **TeamBuilding:**Leadersbuildcohesiveteamsbyfosteringcollaboration,trust,andmutualrespectamongteam members.Theyidentify andleveragethestrengthsof individuals for thecollectivebenefitofthe team.
7. **Performance Evaluation:** Leaders assessindividual and teamperformance, provide constructive feedback, and implementstrategiesforimprovement.Theyrecognizeachievementsandprovideguidancefordevelopment.
8. **ContinuousLearning:**Leadersencourageacultureofcontinuouslearninganddevelopmentwithintheteam. Theysupport skill enhancement and promote a growthmindset among team members.
9. **Communication and Feedback:** Leaders facilitate open and effective communication withinthe team. They provide regular feedback on performance, progress,and changes in organizational goals.
10. **RepresentingtheTeam:**Leadersrepresenttheirteamtohighermanagementandotherdepartments.They advocatefortheneedsandaccomplishmentsoftheirteam,ensuringtheircontributionsarerecognizedand valued

ManagerVsLeader

Basis	Manager	Leader
Origin	Apersonbecomesamanagerbyvirtueofhis	Apersonbecomesaleaderonbasisofhis
FormalRights	Managerhasgotformalrightsinan organizationbecauseofhisstatus	Rightsare notavailabletoaleader
Followers	Thesubordinatesarethefollowersof managers.	Thegroupofemployeeswhomtheleadersleads arehisfollowers
Functions	Amanagerperformsall fivefunctionsofmana	Leaderinfluencespeople towork willingly for groupobjectives
Necessity	Amanagerisveryessentialtoaconcern	Aleaderisrequiredtocreate cordialrelation betweenpersonworkinginandfororganization.
Stability	Itismorestable.	Leadershipistemporary
MutualRelationship	Allmanagersareleaders	Allleadersarenot managers.
Accountability	Managerisaccountableforselfand subordinatesbehaviourandperformance.	Leadershavenowell definedaccountability
Concern	Amanager'sconcernisorganizationalgoals.	Aleader'sconcernisgroupgoalsandmember's
Followers	Peoplefollowmanagerbyvirtueofjob description	Peoplefollowthemonvoluntary basis
Rolecontinuation	Amanagercancontinueinoffice tillhe performs his duties satisfactorily in congruencewithorganizationalgoals	A leader can maintain his position onlythrough day to day wishes of followers

Style of Leadership(Autocratic, Democratic, Participative)

Autocratic or Authoritative Style:

Itis alsoknownasleadercenteredstyle.Underthisstyleofleadershipthereis completecentralisationofauthority intheleaderi.e.,authorityiscenteredintheleaderhimselfHehas allthe powerstotakedecisions.Hedesignsthe work-loadofhisemployeesandexercisetightcontroloverthem.Thesubordinatesareboundtofollowhisorderand directions.

Advantages:

(i) Autocraticleadershipstylepermitsquickdecision-making.

(ii) Itprovides strongmotivationand satisfactiontotheleaderswhodictateterms.

(iii) Thisstylemayyieldbetterresultswhengreatspeedisrequired.

Disadvantages:

(i) Itleadstofrustration,lowmoralandconflictamongsubordinates,

(ii) Subordinatestendtoshirkresponsibilityandinitiative.

2.DemocraticStyle:

Underthisstyle,aleaderdecentralisesanddelegateshighauthoritytohissubordinates.Hemakesafinaldecision onlyafterconsultationwiththesubordinates.Two-waycommunication channelisused.Whiledelegatingalotof authoritiestosubordinates,hedefinesthelimitswithinwhichpeoplecanfunction.Democraticleadershaveahigh concern for both people and work.

Advantages:

(i) Exchangeofideasamongsubordinatesandleaderimprovesjobsatisfactionandmoraleofthesubordinates.

(ii) Humanvaluesgettheirduerecognitionwhichdevelopspositiveattitudeandreducesresistancetochange.

(iii) Labourabsenteeismandlabourturnoverarereduced.

(iv) Thequalityofdecisionisimproved.

Disadvantages:

(i) Democraticstyleofleadershipistimeconsumingandmayresultindelaysindecision-making.

(ii) Itislesseffectiveifparticipationfromthesubordinatesisfornamesake.

(iii) Consultingothers while makingdecisions goagainstthecapabilityof theleadertotakedecisions.

3.ParticipativeStyle

Participativemanagersareveryinvolvedwiththeiremployeesandalwaysensurethattheyarethoroughlyinformed aboutanygivensituation. Theyplaceahigh priorityonemployeedevelopment andoffersubordinatesplentyof growth opportunities

Advantages:

(i) Increaseteammorale.Participativeleadersgiveeveryteammemberavoice.Becauseemployeesplayan activeroleinthesuccessof the company,theyare moremotivatedandengaged withtheir work.

(ii) Promotecollaboration.Employeesareprovidedtheflexibilitytoworktogethertoreachgoals,makeplans, andhelpone another.Collaborationcontributestohighermoraleas well as improved communication between team members.

(iii) Uncover creative solutions. Since employees are encouraged to collaborate, there is a free-flowing exchange of ideas that often leads to innovative solutions.

Disadvantages:

(i) Inhibit swift decision-making.Since participative managerswant eachteam membertoweigh in on the situationathand,itcanlengthenthedecision-makingprocess.Whenanurgentmatterarises,thistypeof leader may take too long to reach a conclusion.

(ii) Increasethelikelihoodofconflict.Whenmultiplepeoplearevoicingdifferingopinions,conflictislikelyto happen.Whileconflictdoesn’tnecessarilyhavetobenegative,participativeleadersmustbepreparedto handle disagreements when they arise.

B.Motivation

1. Definitionandcharacteristics

Motivation is the process that initiates, guides, and maintains goal-oriented behaviors. It is what helps you loseextraweight, for instance, or pushesyoutogetthatpromotionatwork.In short, motivation causes you to act in a way that gets you closer to your goals.

2. Importanceofmotivation

Motivation can cause colleagues to be more willing to work together to achieve a common goal. Such cooperation and collaboration are important in leadership, as it helps to develop more cohesive teams. Motivated team members are also more likely to have a positive attitude, improving the team's dynamic.

Factors affecting motivation

1. **Leadershipstyle-**Theappropriateleadershipstylesencourageemployeestodevelopobjectives and goals in their positions, work towards those goals and help employees maintain that motivation throughout the course of their time at the organization.
2. **Recognition and appreciation-** Appreciation and recognition are two important components of motivation within an organization. Offering recognition and praise not only makes employees feel accomplished and appreciated, but it also reinforces good performance and encourages employeesto continue repeating the actions that led to the performance.
3. **Meaning and purpose-** Employees who find a sense of meaning and purpose in their work often have higher levels of motivation than those who don't.
4. **Positive company culture-** A company's culture can greatly impact employee motivation in the workplace. Many employees feel more valued and enjoy their work more when there is a strong company culture that supports employees and bringsthem together on a regular basis.
5. **Professional development opportunities-** Employees often feel more motivated at work when there are ample opportunities for growth and professional development. Giving employees opportunities to increase their skills and become more efficient in their positions
6. **Job advancement opportunities-** Another way in which employees become more motivated in the workplace is when a clear path of job advancement is emphasized.
7. **Financial benefits-** While financial benefits aren't a motivator for all employees, they can enhance many employees' overall motivation in the workplace. Examples of financial motivators include bonuses, raises, promotions, competitive benefits packages and additional paid time off.

8. **Flexibleworkschedules-** Offering employeestheopportunitytocreatetheirownschedulesor work flexible hours is another great way to instill motivation in your team. Flexible schedules allow employees to better accommodate family needs, holidays and other personal daily responsibilities that more rigid schedules often don't.

Theoriesofmotivation(Maslow)
Maslow's Hierarchy of Needs Theory is regarded as one of the most popular theories on motivation. It is a theory of psychology that explains that humans are highly motivated in order to fulfil their needs, which is based on hierarchical order.

LevelsofHierarchy
The levels of hierarchy in Maslow's need hierarchy theory appear in the shape of a pyramid, where the most basicneed is placed atthebottomwhilethemost advanced levelof hierarchyis at thetop of the
1. Physiological needs: The physiological needs are regarded as the most basic of the needs that humans have. These are needs that are very crucial for our survival. The examples of physiological needs are food, shelter, warmth, health, homeostasis and water, etc.
2. Safety Needs: Once the basic needs of food, shelter, water, etc are fulfilled, there is an innate desire to move to the next level. The next level is known as the safety needs. Here the primary concern of the individual is related to safety and security.
3. Social Needs (Also known as Love and Belonging Needs): This is the third level in the need hierarchy theory. It is that stage where an individual having fulfilled his physiological needs as well as safety needs seeks acceptance from others in the form of love, belongingness.
4. Esteem needs: This is considered as the fourth level of the hierarchy of needs theory. It is related to the needofapersonbeing recognised inthe society. It dealswith getting recognition, selfrespect inthe society.
5. Self-actualization needs: It relates to the need of an individual to attain or realise the full potential oftheir ability or potential.At this stage, all individuals try to become the best version of themselves. In other words, self-actualisation is the journey of personal growth and development.

MethodsofImprovingMotivation
- Makeyourbusinessapleasant.
- Bearespectful,honest,andsupportivemanager.
- Offeremployeerewards.
- Givethemroomtogrow.
- Sharepositivefeedback.
- Betransparent.
- Offerflexiblescheduling.

- Offerfoodintheworkplace

ImportanceofCommunicationinBusiness

- TheBasisofCo-ordination.
- FluentWorking.
- TheBasisofDecisionMaking.
- IncreasesManagerialEfficiency.
- IncreasesCooperationandOrganizationalPeace.
- BoostsMoraleoftheEmployees

Typesofcommunication:

- **Formal communication** Being formal, clear, and specific is a great way to ensure a proper flow of information in the workplace.
- **Informal communication-**in a casual, relaxed manner that doesn't follow prescribed rules, conventions, or structures. It's the type of communication that occurs naturally within social interactions,
- **Horizontalcommunication**-referstotheexchangeofinformation,messages,andfeedback between individualsor groups atthe samehierarchical level within an organization.In other words,it involves communication between colleagues, peers, or teams who are at the same organizational level.
- **Vertical communication**- refers to the exchange of information, messages, and feedback between different levels of the organizational hierarchy within a company. It involves the flow of information either downward from higher levels of management to lower levels or upward from lower levels to higher levels.

TypesandBarriersofCommunication

- DissatisfactionorDisinterestWithOne'sJob.
- InabilitytoListentoOthers.
- LackofTransparency&Trust.
- CommunicationStyles(whentheydiffer)
- ConflictsintheWorkplace....
- CulturalDifferences&Language

CHAPTER7-WorkCulture,TQM&Safety

1. Human relationship and Performance in Organization, Relations with Peers, Superiors and Subordinates

Human relations refer to the ability to interact in a healthy manner with others and build strong relationships. From the perspective of managers in a company, it involves the process of creating systems and communication channels to enable group employee relationships as well as strong one-on-one relationships. Additionally, it includes the process of training people for specific roles, addressing their needs, resolving conflicts between employees or between management and employees and creating a positive workplace culture.
By developing key human relations skills, managers and employees both can build and maintain stronger relationships within a workforce and maintain a positive work environment. Here are the most critical human relations skills:

The results showed that superior-subordinate relationship have positive relation with job satisfaction and organization commitment. The study concluded by showing that strong leader-member exchange led to employee job satisfaction, which may result in improved organizational commitment. Maintain discipline among employees. Maintain good work performance by accepting only quality work from subordinates. Build cooperation andmoraleamong otheremployees. Be loyal tomanagement and tothe company.
Relationshipamongemployeemaybeoffollowingtype:

- DirectSingleRelationships:
- DirectGroupRelationships:
- Cross-Relationships:

2. TQMconcepts:QualityPolicy,QualityManagement,Qualitysystem

TotalQualityManagement(TQM)isamanagementapproachthatfocusesoncontinuousimprovementin all aspects of an organization's processes, products, and services to meet or exceed customer expectations. TQM involves a set of principles and practices that promote a culture of quality, teamwork, and customer focus within the organization.
Several key concepts are fundamental to TQM, including Quality Policy, Quality Management, and Quality System:

1. **QualityPolicy:**

Definition: A Quality Policy is a formal statement by an organization that outlines its commitment to quality and customer satisfaction. It communicates the organization's quality objectives and serves as a guiding principle for decision-making and actions related to quality.

ComponentsofaQualityPolicy:

A. **Commitment to Quality:** Declares the organization's commitment to delivering high-quality productsor services.
B. **CustomerFocus:**Emphasizesmeetingorexceedingcustomerexpectationsandrequirements.
C. **Continuous Improvement:** Acknowledges the organization's dedication to continuous improvement in processes and performance.
D. **Compliance:** Commits to adhering to relevant quality standards, regulations, and customer requirements.
E. **Involvement:** Encourages the involvement of employees at all levels in maintaining and improving quality.

Importance:

- Providesacleardirectionfortheorganization'squalityobjectives.
- Alignstheworkforcetowardsacommonqualitygoal.

- Servesasabasisforsettingqualityobjectivesandperformancemetrics.

2. QualityManagement:

Definition: Quality Management involves the systematic planning, implementation, control, andcontinuous improvement of processes, products, and services to ensure they meet or exceed established quality standards and customer expectations.

KeyPrinciplesofQualityManagement:

A. **CustomerFocus:**Meetingcustomerneedsandexceedingcustomerexpectationsisaprimaryfocus.
B. **Leadership:**Effectiveleadershipprovidesdirectionandsupportforqualityinitiatives.
C. **Employee Involvement:** Involving employees in quality improvement processes harnesses their knowledge and expertise.
D. **ProcessApproach:**Emphasizesunderstandingandimprovingprocessestoachievedesiredoutcomes.
E. **Systematic Approach to Management:** Applying a systematic and structured approach to managing quality.
F. **ContinuousImprovement:**Encouragesongoingenhancementofprocessesandoutcomes.
G. **FactualApproachtoDecisionMaking:**Informeddecisionsbasedondataanalysisandfacts.

Importance:
- Enhancesproductandservicequality.
- Reducesdefects,waste,andcosts.
- Improvescustomersatisfactionandloyalty.
- Fostersacultureofcontinuousimprovement.

3. QualitySystem:

Definition: A Quality System refers to the organizational structure, procedures, processes, and resources established to implement quality management effectively. It includes documentation, training, and monitoring processes to ensure consistency and compliance with quality standards.

ComponentsofaQualitySystem:

A. **QualityManuals:**Documentstheorganization'squalitypolicies,procedures,andguidelines.
B. **StandardOperatingProcedures(SOPs):**Detailedinstructionsforspecificprocessesandtasks.
C. **TrainingPrograms:**Ensuresemployeesareknowledgeableaboutqualitystandardsandprocedures.
D. **DocumentControl:**Ensuresthatalldocumentsareup-to-dateandaccessibletorelevantpersonnel.
E. **QualityAudits:**Regularassessmentstoverifycompliancewithqualitystandards.
F. **Corrective and Preventive Actions (CAPA):** Processes for addressing non-conformities and preventing their recurrence.

Importance:
- Ensuresconsistencyandstandardizationinprocessesandoutputs.
- Facilitatescompliancewithindustrystandardsandregulations.
- Providesaframeworkforcontinuousimprovementefforts.

Accidents and Safety, Cause, Preventive measures, General Safety Rules, Personal Protection Equipment (PPE)

AccidentsandSafety:
Definition: Accidents are unplanned events that result in harm, injury, damage to property, or loss of life. Safety measures are protocols and precautions put in place to prevent accidents and ensure the well-beingof individuals in various environments, including workplaces.
CausesofAccidents:
- **HumanFactors:**Suchasnegligence,lackoftraining,fatigue,orimproperuseofequipment.
- **EnvironmentalFactors:**Includingpoorlighting,inadequateventilation,orslipperysurfaces.
- **MechanicalFactors:**Suchasequipmentfailure,malfunction,orimpropermaintenance.

- **ProceduralFactors:**Flawsinprocesses,lackofsafetyprotocols,orinadequatesafetytraining.
- **NaturalFactors:**Likeearthquakes,floods,orstorms,whichcancauseaccidents.

PreventiveMeasures:

1. **Training and Education:** Providing comprehensive training to employees on safety protocols and procedures.
2. **Regular Maintenance:** Ensuring all equipment and machinery are regularly inspected and well-maintained.
3. **SafetyProtocols:**Implementingandenforcingstrictsafetyguidelinesandprotocolsinworkplaces.
4. **Emergency Preparedness:** Developing and practicing emergency response plans and evacuation procedures.
5. **Personal Responsibility:** Encouraging individuals to be aware of their surroundings and adhere to safety rules.
6. **Safety Inspections:** Conducting regular safety inspections to identify potential hazards and rectify them.
7. **Reporting and Analysis:** Establishing systems for reporting near misses and accidents to investigate their causes and implement preventive measures.

GeneralSafetyRules:

1. **Wear appropriate safety gear:** Always wear helmets, gloves, goggles, and other necessary safety equipment depending on the task.
2. **Follow proper procedures:** Adhere to established procedures and guidelines for tasks and operations.
3. **Keepworkareaclean:**Clutter-freeenvironmentsreducetheriskofaccidents.
4. **Use tools and equipment correctly:** Improper use can lead to accidents. Use tools only for their intended purpose.
5. **Avoidshortcuts:**Donotbypasssafetyproceduresortakeshortcutstocompletetasksquickly.
6. **Reporthazards:**Reportanyunsafeconditionsorpracticestosupervisorsimmediately.
7. **Stayalert:**Beingawareofyoursurroundingscanpreventmanyaccidents.
8. **Properliftingtechniques:**Useproperbodymechanicsandequipmenttoliftheavyobjects.
9. **Fire Safety:** Know the location of fire exits, fire extinguishers, and evacuation routes. Participate in fire drills.

PersonalProtectionEquipment(PPE)

PPEmeanspersonalprotectiveequipmentorequipmentyouusetoguaranteeyour(own)safety.
Use PPE always and anywhere where necessary. Observe the instructions for use, maintain them well and check regularly ifthey still offer sufficient protection.But when do youusewhat type ofprotection? These7tipswillhelpyouonyourway.

1. SAFETY FOR THE HEAD- Wearing a helmet offers protection and can prevent head injuries. Select a sturdy helmet that is adapted to the working conditions. These days you can find many elegant designs and you can choose extra options suchas an adjustable interior harness and comfortable sweatbands.

2. PROTECT YOUR EYES- The eyes are the most complex and fragile parts of our body. Each day, more than 600 people worldwide sustain eye injuries during their work. Thanks to a good pair of safety glasses, these injuriescouldbeprevented.Doyoumeetbrightlightorinfraredradiation?Thenweldinggogglesora shield offer the ideal protection!

3. HEARINGPROTECTION

Doyouworkinanenvironmentwithhighsoundlevels?Inthatcaseitisveryimportantto consider hearing protection. Earplugs are very comfortable, but earmuffs are convenient on the work flooras you can quickly put these on or take them off.

4. MAINTAINAGOODRESPIRATION

Wearing a mask at work is no luxury, definitely not when coming into contact with hazardous materials. 15%oftheemployeeswithintheEUinhalevapours,smoke,powderorduskwhileperformingtheirjob.

Dust masksofferprotectionagainstfinedustandotherdangerousparticles.Ifthematerialsaretrulytoxic,use a full-face mask.Thisadheres tightlyto the face,to protectthenose andmouth against harmfulpollution.

5. PROTECTYOURHANDSWITHTHERIGHTGLOVES

Hands and fingers are often injured, so it is vital to protect them properly. Depending on the sector you work in, you can choose from gloves for different applications:

protectionagainstvibrations

protection against cuts by sharp materials protection against cold or heat

protection against bacteriological risks

protectionagainstsplashesfromdilutedchemicals.

6. PROTECTIONFORTHEFEET

Even your feet need solid protection. Safety shoes (type Sb, S1, S2 or S3) and boots (type S4 or S5) are the ideal solution to protect the feet against heavy weights. An antiskid sole is useful when working in a damp environment, definitely if you know that 16,2% of all industrial accidents are caused by tripping or sliding. On slippery surfaces, such as snow and ice, shoe claws are recommended. Special socks can provide extra comfort.

7. WEARTHECORRECTWORKCLOTHING

Preventing accidents is crucial in a crowded workshop. That is why a good visibility at work is a must: a high- visibility jacket and pants made of a strong fabric can help prevent accidents. Just like the hand protection, there are versions for different applications.

CHAPTER8

Legislation

IntellectualPropertyRights(IPR),Patents,Trademarks,Copyrights

Intellectual Property Rights (IPR) are legal rights that protect creations of the mind, such as inventions, literary and artistic works, designs, symbols, names, and images used in commerce. These rights grant creators and inventors' exclusive rights to their intellectual property, enabling them to control its use and receive recognition or financial benefits.

There are several types of intellectual property rights, including patents, trademarks, and copyrights, each serving different purposes:

1. Patents:

Definition:A patent is a legal document granted by a government that gives inventors the exclusive rightto make, use, and sell their inventions for a limited period, usually 20 years from the filing date of the application.

KeyPoints:

1. **Inventions:** Patents protect new and useful inventions, processes, products, or improvements on existing inventions.
2. **Exclusive Rights:** Patent holders have the exclusive right to use and license their inventions, preventing others from using, making, selling, or importing the patented invention without permission.
3. **Public Disclosure:** In exchange for the exclusive rights, patent holders must publicly disclose the details of their invention, contributing to the body of knowledge in their field.

2. Trademarks:

Definition: A trademark is a distinctive sign, symbol, logo, word, or phrase used to identify and distinguish goods or servicesfrom those of othercompanies.It serves as abrandidentifier in themarketplace.

KeyPoints:

1. **Distinctiveness:** Trademarks must be distinctive and not generic, descriptive, or commonly used to identify specific products or services.
2. **Protection of Brand Identity:** Trademarks protect the unique identity of products or services, enhancing brand recognition and consumer trust.
3. **Renewable:** Trademarks can be renewed indefinitely, as long as they are actively used and maintained.

3. Copyrights:

Definition: Copyright is a legal protection granted to the creators of original literary, artistic, and musical works, givingthem the exclusiverightto reproduce, distribute, perform, and displaytheir work.

KeyPoints:

1. **Original Works:** Copyright protects original works of authorship, including books, music, software, art, films, and other creative expressions.
2. **Limited Duration:** Copyright protection typically lasts for the lifetime of the author plus an additional 50 to 70 years after their death, depending on the jurisdiction.
3. **Fair Use:** Certain uses of copyrighted works are allowed under the doctrine of fair use, such as for educational or critique purposes, without the need for permission.

ImportanceofIntellectualPropertyRights:

- **Encouragement of Innovation:** IPR protection encourages inventors and creators to invest time and resources in developing new technologies, products, and creative works.
- **Economic Growth:** IPR fosters economic growth by promoting entrepreneurship, attracting investments, and creating jobs in innovative industries.
- **Protection of Investments:** IPR safeguards the investments made in research, development, and branding by providing legal protection against unauthorized use.

- **Consumer Protection:** Trademarks and copyrights ensure that consumers receive genuine and high-quality products or services from trusted sources.
- **Cultural Development:** Copyright protection preserves cultural heritage by encouraging the creation and dissemination of artistic and literary works.

FeaturesofFactoriesAct1948withAmendment(onlysalientpoints)

TheFactoriesAct,1948isanimportantlegislation in Indiathatregulatestheconditionsofworkin factories. Over the years, several amendments have been made to the Act to address emerging issues and improve the working conditions of factory workers. Below are the salient points of the Factories Act, 1948 with its amendments:

SalientFeaturesoftheFactoriesAct,1948(withAmendments):

1. **DefinitionofFactory:**
- Aplacewheretenormoreworkersareemployedwiththeuseofpower,or
- A place where twenty or more workers are employed without the use of power, in a manufacturing process.

2. **LicensingandRegistration:**
- It is mandatory for factories to obtain a license for operation, and they must be registered before commencement of work.

3. **WorkingHours:**
- Maximum48hoursofworkperweekand9hoursofworkperday.
- Overtimeistobepaidforworkdonebeyondtheregularhours.

4. **Holidays:**
- Weeklyholiday(usuallySunday)iscompulsory.
- Nationalandfestivalholidayswithpay.

5. **HealthandSafety:**
- Adequate measures for the health and safety of workers, including cleanliness, ventilation, lighting, and drinking water facilities.
- Provisionforfirstaid,medicalexamination,andambulanceroomforemergencies.

6. **WelfareProvisions:**
- Facilities such as restrooms, creches (for factories with more than 30 women workers), and lunchrooms.
- Safetymeasuresforhazardousprocessesanddangerousoperations.

7. **ChildLaborandYoungWorkers:**
- Prohibitionofemploymentofchildrenbelowtheageof14years.
- Special provisions for the employment of young persons (age 15 to 18 years), ensuring their safety and proper working conditions.

8. **AnnualLeavewithWages:**
- Workersareentitledtoleavewithwagesafter240daysofworkinacalendaryear.
- Leavecalculationisbasedonthenumberofdaysworked.

9. **DismissalandDischarge:**
- Conditions under which a worker can be dismissed or discharged are specified, protecting workers from arbitrary termination.

10. **CompensationforAccidents:**
- Compensationforworkersincaseofemployment-relatedaccidentsleadingtodisabilityordeath.

11. **EmployeeRecords:**
- Maintenance of records and registers related to the employment, working hours, accidents, and more.

12. **Amendments:**
- TheActhasbeensubjecttoseveralamendmentsovertheyearstoaccommodatechanging

industrialneeds,improvesafetystandards,andenhanceworkers'welfare

FeaturesofPaymentofWagesAct1936(onlysalientpoints)

The Payment of Wages Act, 1936, is an important labor legislation in Indiathat ensures the timely paymentof wages toemployees. Here are the salientpoints ofthe Payment of Wages Act, 1936:

SalientFeaturesofthePaymentofWagesAct,1936:

1. **Definition of Wages:**Wages include all remuneration in monetary terms, whether fixed or calculated by the hour, day, or any other method, including bonuses, allowances, or any other special benefits.
2. **Time of Wage Payment:** Wages must be paid before the 7th and 10th day of the following wage period for establishments with less than 1000 employees and more than 1000 employees respectively.

Incaseoftermination,withintwodays.

3. **Deductions**:Permissible deductions include those for income tax, employees' contributions to provident funds, and fines for absence from duty.

Deductions for damagesor loss of goods suppliedbythe employer are allowed only ifthe employee agreesin writing.

4. **Maintenance of Records:**Employers are required to maintain records and registers showing various details, including the rates of wages, the nature and extent of work performed by workers, receipts, and disbursements.
5. **Fines:**Fines imposed on workers should not exceed three percent of the wages payable to the worker in a wage period.

Total fines imposed in any one wage period should not exceed an amount equal to three percent of the wages payable in respect of that wage period.

6. **Penalties:**Penalties are imposed on employers who contravene the provisions of the Act. Penalties can include fines and imprisonment.
7. **Claims and Appeals:**Workers have the right to make claims for unpaid wages within a specific period to the authority appointed under the Act.

Provisionforappealsagainstdecisionsmadeunder theAct.

8. **Responsibility of Employers:**Employers are responsible for the payment of wages to employees without any unauthorized deductions.

Employersarealsorequiredtoensuretheaccuracyandcompletenessofrecordsrelatedtowages.

9. **Non-Application:**The Act does not apply to wages payable in respect of a wage period which does not exceed one month andwhere thenumber of persons employed is lessthan 1,000.

CHAPTER9

SMARTTECHNOLOGY

IntroductiontoComponentsofIoT
Withtheincreasingbandwidthavailabilityandcheaphardwarecost,IoTischangingtheindustry landscapes in scale. From medical, construction, governance to Insurance, BFS the use cases of IoT are spreading day by day. The IT spending of multinational corporations, banks, and other institutes are also increasing along with all these developments. Though the hardware, software and infrastructure requirementsofIndustrygradeIoTdiffer from domain todomain, the basic components remain the same.
In this article, we will discuss the standard components of an IoT system.

KeyComponentsofIoT

Wecanlistdownthebelowcomponentsaskeypartsofan IoTecosystem.

1. SensorsorEndDevices

For any IoT use case, the components of the endpoint are sensors. Sensors capture electric pulse or analog signalswhichare passed through theIoTecosystems.Based ontheusecase anddomainsRFID, temperaturesensors, light sensors, electromagnetic sensors, etc. are used. For example, smartphonesandsmartwearablesareequippedwithsensorslikeaccelerometer,Gyroscope sensors, etc. Data obtained from these IoT endpoints can be used in various domains like Human activity recognition, medical stability, etc. Based on the use case and precision requirements sensorscanbechosenkeepingthefollowingparametersinmind

AccuracyoftheinputreadingsReliabilitypercentageoftheinputs
The purpose of the use case, for example, sensors required for a temperature-dependent use case, will differ from use cases based on motions.
Industry grade IoT systems can be integrated with multi-technology, cross-functional and cross-vendor products.Based on thecomplexity and compatibilitysensors arechosen for a particular usecase.

2. NetworkorConnectivityLayer

InatypicalIoTecosystem,sensorsareconnectedwithcomputationlayersandintelligentlayersvia network or connectivity layers. IoT endpoints need to be always connected with various other components seamlessly over the connectivity layer. Based on the scale of the implementations IoT components can be connected overs LANs, MANs or WANs. It can also be connected through telephony networks like LTE (Long Term Evolution or popularly known as 4G Network) or light- based technologies like Li-Fi (where light is used as a mode of communication to maintain interconnections). For local use cases, Bluetooth and Wi-Fi can also be used.

AnIoTnetworkconsistsofvariousnetworkcomponentslikerouters,gateways,switches,various network protocols, etc. Based on the use case and domain proper network infrastructure is needed to be chosen.

3. SecurityLayers

The heart of any industry-grade IoT user story is ‘data’. In a standard use case, analog or digital signal is acquired by sensors andthe signal is then converted toa format on topof whichAI/ML components can work. In the total flow of data, proper security systems and methodologies need to be enforced. The datacanbe compromised in any layers starting from thedata acquisitionto business insights derivations. We can enforce proper security byusing strong encryption in various layersof communication, using proper firmware and anti-malware systems, etc.

Intelligence: Thiswillbeessentialforsmartproduct

Connectivity: This feature will be responsible for network accessibility and compatibility features of the devices and hence one of the prime characteristics.

Sensing: Likecollectingtheinformationbasingtheretrievalcapacityandprovidingitforintelligentdecision

Expressing: Thiswillenableinteractivitywithhumansandtheworld.

Energy: Without this, there will not be the creation of our devices. Energy harvesting and proper infrastructure to charge and all will be important features for our IoT devices

Safety: Theprimefeatureonwhichthecustomerrelyandusetheproduct.Hencenocompromiseonthis is allowed and all the details need to be checked and validated. For some feature, if you see there are even government regulations as well.

BenefitsofIoTTechnology
ThereAremanybenefitsofIoTtechnologywhichisanichetechnologyandsomeofthemarelistedbelow:

1. **Business Opportunity:** There will be enhanced opportunities for the business with IoT and new revenue tracks can beeasily developed.IoTdriven products andinnovationswillbean asset totheorganization.

2. **Enhanced and Efficient Asset Utilisation:** with IoT, there will be improved tracking of the assets and efficient products can be achieved on a real-time basis.

3. **Enhance Device Communication:** Establishing the interaction between machines will be boom and IoT will one step further in this process.

4. **Automation and Control:** IoT with its device interaction and connectivity strives towards achieving automation withminimal or nohuman intervention sincemachinescan leadto afasterandtimelyoutput.

5. **Time-Saving and Efficiency:** IoT which uses the machine to machine interaction will help us to utilize human time efficiently and also the work gets faster results which will define its efficiency.

TheIoTisacomplexsystemwithanumberofcharacteristics.Itscharacteristicsvaryfromone domain to another. Some of the general and key characteristics identified during the research study are as follows:

1. **Intelligence**

IoT comes with the combination of algorithms and computation, software & hardware that makes it smart. Ambient intelligence in IoT enhances its capabilities which facilitate the things to respond in an intelligent waytoaparticularsituationandsupportsthemincarryingoutspecifictasks.Inspiteofallthepopularity of smart technologies, intelligence in IoT is only concerned as means of interaction between devices, while user and device interaction is achieved by standard input methodsandgraphicaluserinterface.

2. **Connectivity**

Connectivity empowers Internet of Things by bringing together everyday objects. Connectivity of these objects is pivotal because simple object level interactions contribute towards collective intelligence in IoT network. It enables network accessibility and compatibility in the things. With this connectivity, new market opportunities for Internet of things can be created by the networking of smart things and applications.

3. **DynamicNature**

The primary activity of Internet of Things is to collect data from its environment, this is achieved with the dynamic changes that take place around the devices. The state of these devices change dynamically, example sleeping and waking up, connected and/or disconnected as well as the context of devices including temperature, location and speed. In addition to the state of the device, the number of devices also changes dynamically with a person, place and time.

4. **Enormousscale**

The number of devices that need to be managed and that communicate with each other will be much larger than the devices connected to the current Internet. The management of data generated from these devices and their interpretation for application purposes becomes more critical. Gartner (2015) confirms the enormous scale of IoT in the estimated report where it stated that 5.5 million new things will get connected every day and 6.4 billion connected things will be in use worldwide in 2016, which is up by 30 percent from 2015. The report also forecasts that the numberofconnecteddeviceswillreach20.8billionby2020.

5. **Sensing**

IoT wouldn't be possible without sensors which will detect or measure any changes in theenvironment togenerate datathat can report on their statusoreven interact withtheenvironment.
Sensing technologies provide the means to create capabilities that reflect a true awareness of the physical world and the people in it. The sensing information is simply the analogue input from the physical world,but it can provide the rich understanding of our complex world.