NEP-2020:HigherEducation Envisions&Perspectives
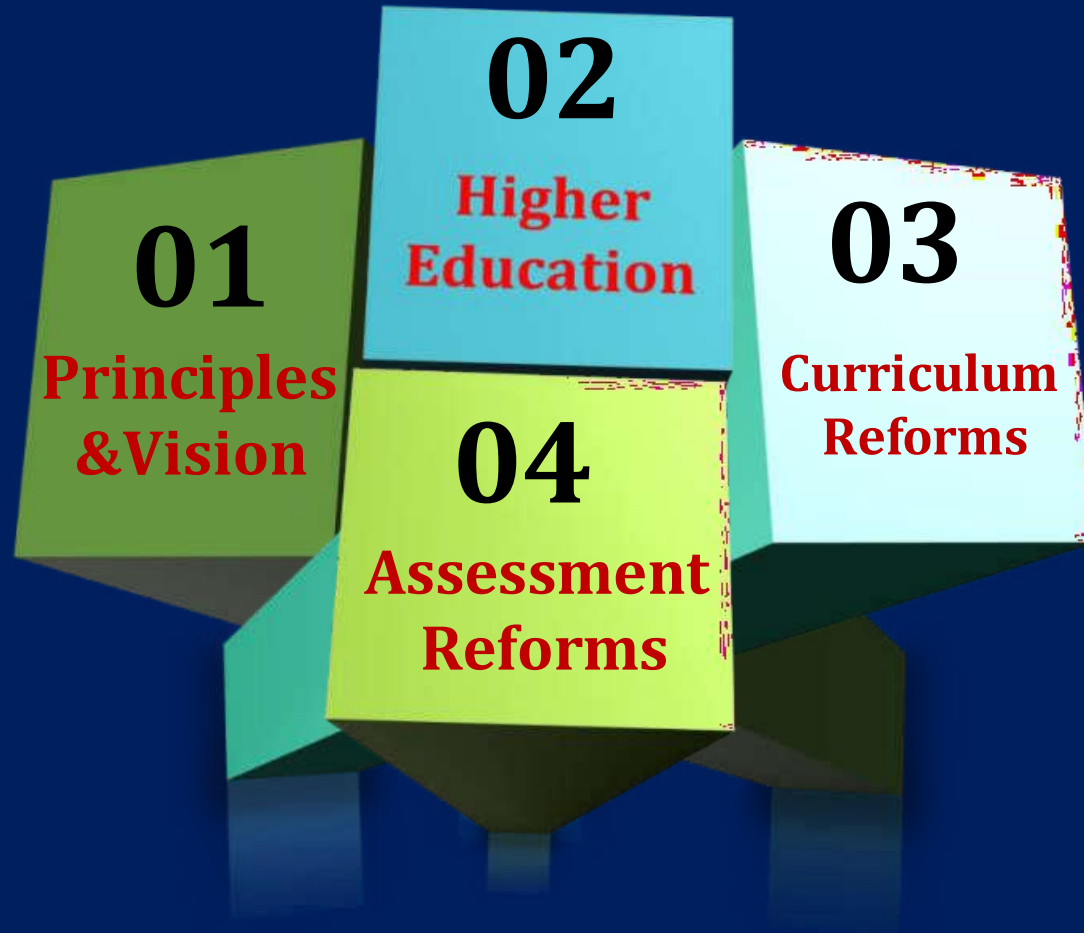
Present by
    Dr. pramod Botre
        Principle of GSM College

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01 **Principles &Vision**

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NEP-2020:Principles&Vision

NEP-2020:SchoolEducation

NEP-2020:HigherEducation

NEP-2020:Otherareasoffocus

NEP-2020:Makingithappen

NEP-2020 Principles&Vision

NEP:2020

ApprovedbytheUnionCabinetofIndiaon29July2020toloo kformanytransformativechangesinIndian educationsystem

OutlinesthevisionofIndia'sneweducation system.NEPwilllaythefoundationfor21stcenturyI ndia

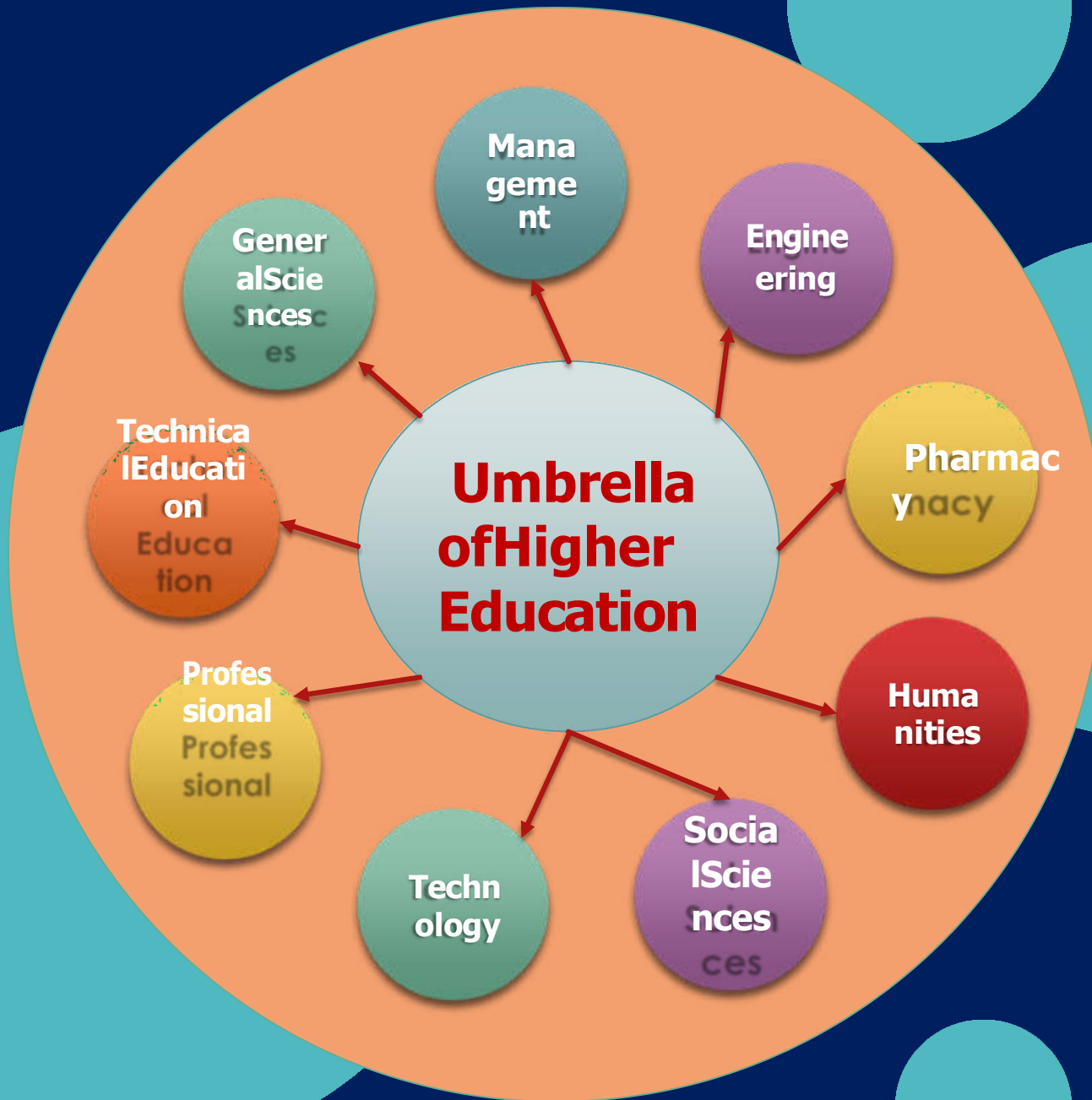Improvementinqualityofhighereducationalinstitutes whichwillbeatparwiththeglobalstandards.

NEP:2020

VisionofNewEducationSystemofIndiaforSchoolEducationandHigherEducation

Theaimistooverhaulthecountry'seducation system.

BringaboutmajorreformsineducationinIndia

Theaimistoachieve100%youthandadult literacy

NEP-2020:Principles

Recognizing,identifying,andfosteringtheuniquecapabilitiesofeachstudent,bysensitizingteachersaswellasparentstopromoteeachstudent'sholistic developmentinbothacademicandnon-academicspheres;

AchievingFoundationalLiteracyandNumeracybyallstudentsbyGrade3;

Flexibility,sothatlearnershavetheabilitytochoosetheirlearningtrajectoriesanprogrammes,andtherebychoosetheirownpathsinlifeaccordingtotheirtalentsandinterests;

NEP-2020:Principles

Nohardseparationsbetweenartsandsciences,betweencurricularandextra-curricularactivities,betweenvocationalandacademicstreams,etc.inordertoeliminateharmfulhierarchiesamong,andsilosbetweendifferentareasoflearning;

Multidisciplinaryandaholisticeducationacrossthesciences,socialsciences,arts,humanities,andsportsforamultidisciplinaryworldinordertoensuretheunityandintegrityofallknowledge;

NEP-2020:Principles

Emphasisonconceptualunderstanding ratherthanrotelearningandlearning-for-exams;

Creativityandcriticalthinkingtoencouragel ogicaldecision-makingandinnovation;

Ethicsandhuman&Constitutionalvalueslik eempathy,respectforothers,cleanliness,co urtesy,democraticspirit,spiritofservice,res pectforpublicproperty,scientifictemper,lib erty,responsibility,equality, andjustice;

NEP-2020:Principles

Promotingmultilingualismandthepower oflanguageinteachingand learning;

Lifeskillssuchascommunication,c ooperation,teamwork,andresilie nce;

Focusonregularformativeassessmentforl earningratherthanthesummativeassess mentthatencouragestoday's coachingculture;

NEP-2020:Principles

Extensiveuseoftechnologyinteachingandlearning,removinglanguagebarriers,increasingaccessfor*Divyang*students,andeducationalplanningandmanagement;

Respectfordiversityandrespectforthelocalcontextinallcurriculum,pedagogy,andpolicy,alwayskeepinginmindthateducationisaconcurrentsubject;

Fullequityandinclusionasthecornerstoneofalleducationaldecisionstoensurethatallstudentsareabletothriveintheeducationsystem;

NEP-2020:Principles

Synergyincurriculumacrossalllevelsof educationfromearlychildhoodcareand educationtoschooleducationtohighere ducation;

Teachersandfacultyastheheartofthele arningprocess– theirrecruitment,continuousprofession aldevelopment,positiveworkingenviron mentsandserviceconditions;

NEP-2020:Principles

Lightbuttight'regulatoryframeworktoensure integrity, transparency,andresourceefficiencyo ftheeducationalsystemthroughauditandpublic disclosurewhileencouraginginnovationandout-of-the-

Outstandingresearchasarequisitefor outstandingeducationanddevelopment;

Continuousreviewofprogressbasedonsustai nedresearchandregularassessmentbyeduc ationalexperts;

NEP-2020:Principles

A rootedness and pride in India, and its rich, diverse, ancient and modern culture and knowledge systems and traditions;

Education is a public service; access to quality education must be considered a basic right of every child;

Substantial investment in a strong, vibrant public education system as well as the encouragement and facilitation of true philanthropic private and community participation.

NEP–2020:Vision

TransformIndiaintoanequitableandvibrantknowledgesociety,byprovidinghigh-qualityeducationtoall,andtherebymakingIndiaaglobalknowledgesuperpower

CurriculumandpedagogyofourinstitutionsmustdevelopamongthestudentsadeepsenseofrespecttowardstheFundamentalDutiesandConstitutionalvalues,bondingwithone's country,andaconsciousawarenessofone's rolesandresponsibilitiesinachangingworld.

NEP–2020:Vision

Instillamongthelearnersadeep-rootedprideinbeingIndian,notonlyinthought,butalsoinspirit,intellect,anddeeds,aswellastodevelopknowledge,skills,values,anddispositionsthatsupportresponsiblecommitmenttohumanrights,sustainabledevelopmentandliving,andglobalwell-being,therebyreflectingatrulyglobal citizen.

HigherEducation

InstitutionalRestructuringandConsolidation

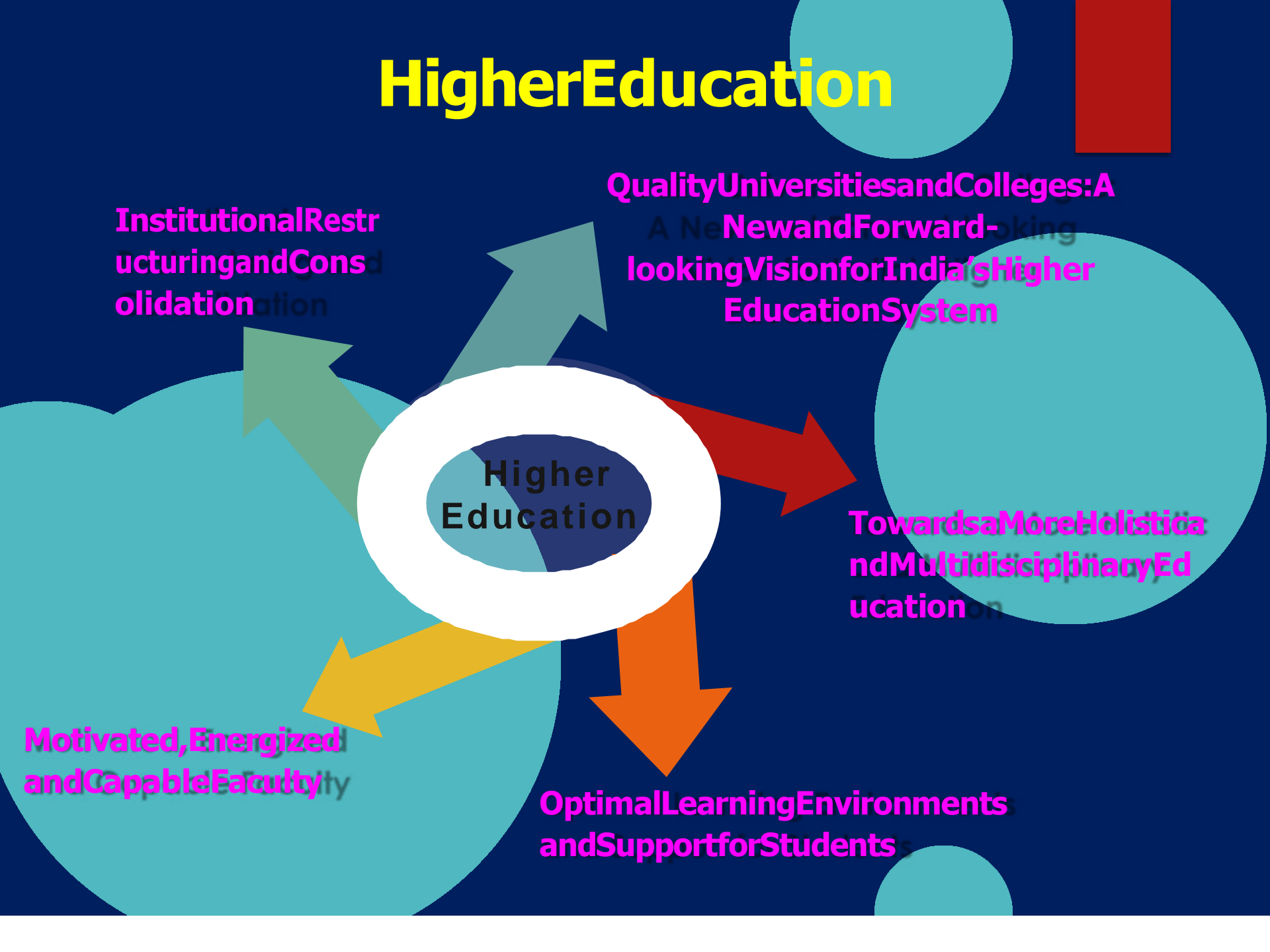**QualityUniversitiesandColleges:A NewandForward-lookingVisionforIndia'sHigher EducationSystem**

Higher Education

TowardsaMoreHolisticandMultidisciplinaryEducation

Motivated,Energized andCapableFaculty

OptimalLearningEnvironments andSupportforStudents

HigherEducation

Effective GovernanceandLeadershipforHigherEducationInstitutions

EquityandInclusioninHigherEducation

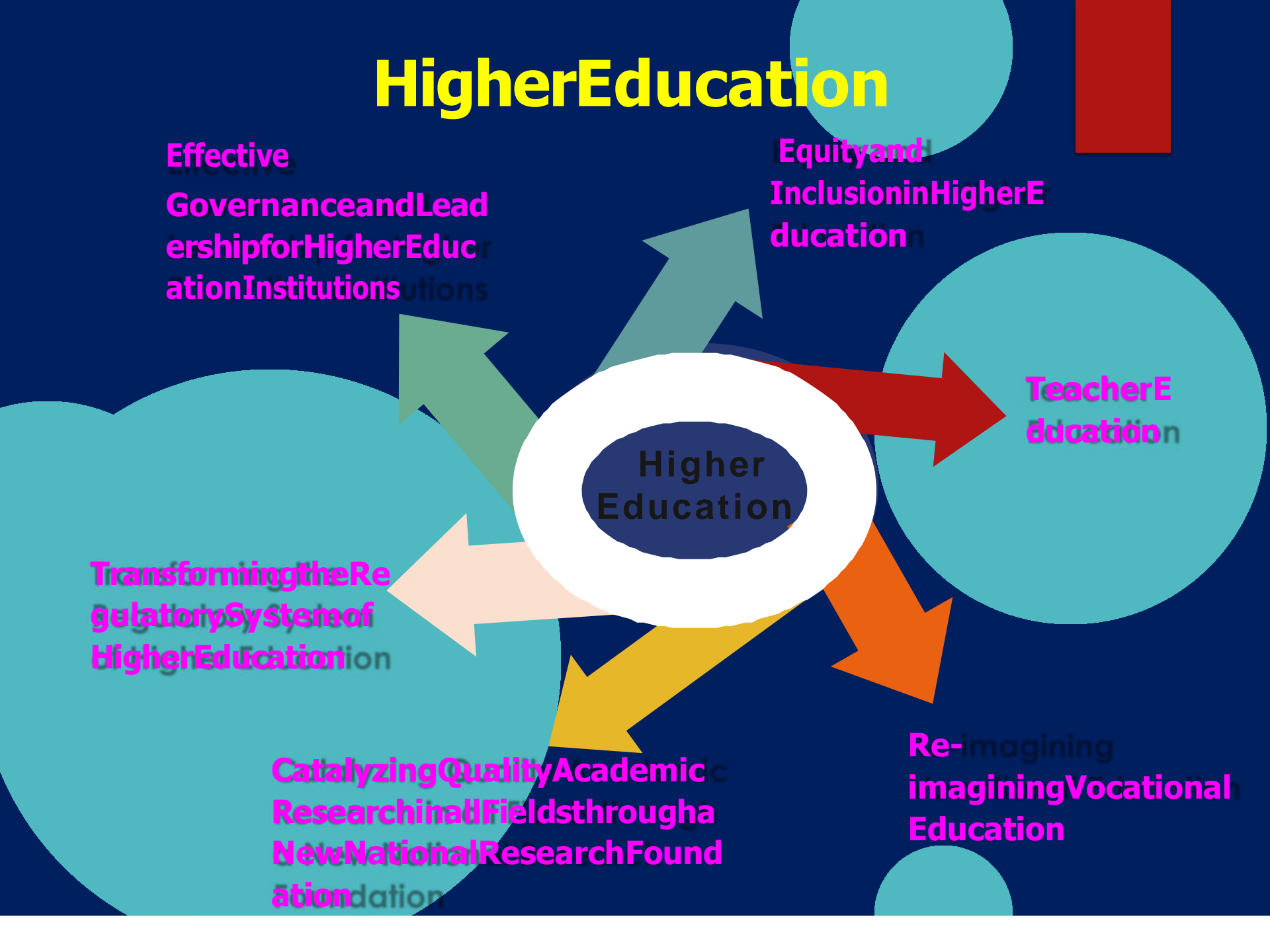Higher Education

TeacherEducation

TransformingtheRegulatorySystemofHigherEducation

CatalyzingQualityAcademicResearchinallFieldsthroughaNewNationalResearchFoundation

Re-imaginingVocationalEducation

NEP:Curriculum Framework

NEP:CurriculumFramework

Curriculumisthefoundationofeducationanddprovidesdirectionforinstruction

Curriculumisakeydriveroftheentireinstructionalsystemencompassingteaching-learning/Pedagogyandassessmentsub-systems.Assessmentisanintegralpartofinstruction

NEP:CurriculumFramework

Innovativeandresponsivecurriculum

CurriculumFrameworktalksaboutNationalEducation(NE),whichisanimportantcomponentofCCE.Itaimstodevelopnationalcohesion,cultivatetheinstinctforsurvivalasanationandinstilinourstudents,confidenceinournation'sfuture.

NEP:CurriculumFramework

CurriculumprovidedirectionsforIndustrialRevolution4.0andhenceisawayofdescribingtheblurringofboundariesbetweenthedifferentdiscipline/programmesunderEngineering,Technology,Humanities,SocialScience,GeneralSciences,Management,Pharmacy,VocationalEducation,GeneralEducationetc.undertheumbrellaofHEtopromotemultidisciplinaryeducationanduniversities
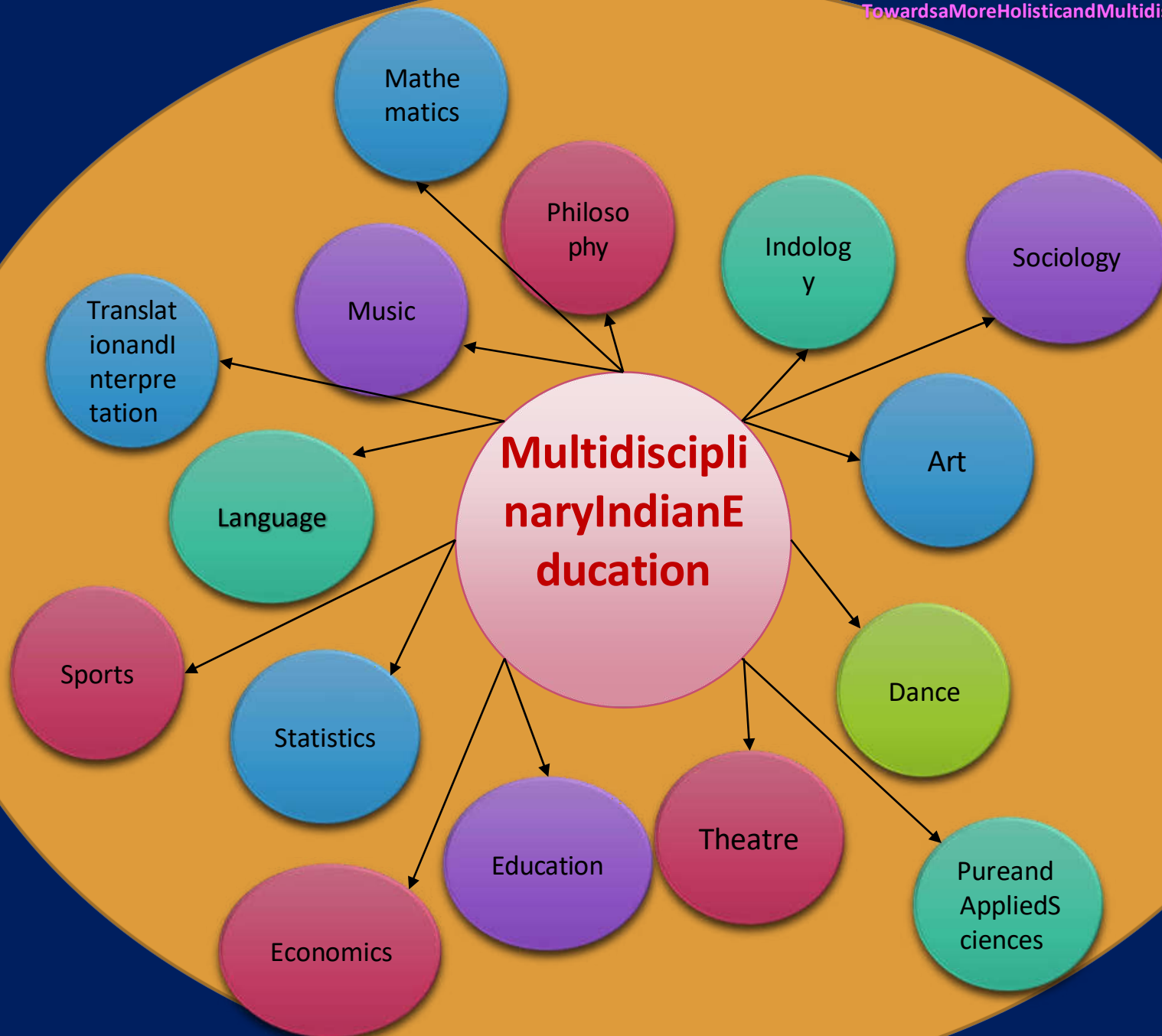
NEP:CurriculumFramework

- **Multidisciplinaryandaholisticeducation.**

- **Thinboundariesofseparationofdiscipline.**

- **Multidisciplinaryteachingandresearch.Focusonintegrationofallschools/disciplineoflearninglikeHumanities,GeneralSciences,SocialSciences,Engineering,Technology,Management,Pharmacy,LiberalArtsamongstthemselvesaspertherequirementofMultiTaskingjobsandindividualsinterestareas.**

NEP:CurriculumFramework

IntegrationofEmergingTechnologyCourses

ArtificialIntelligence(AI)

Robotics

Internet ofThings (IOT)

3D Printing

GeneticEngineering

Quantum Computing

OtherTechnologiesapplicableinmultidisciplinary/crosssectionoftheProgramme
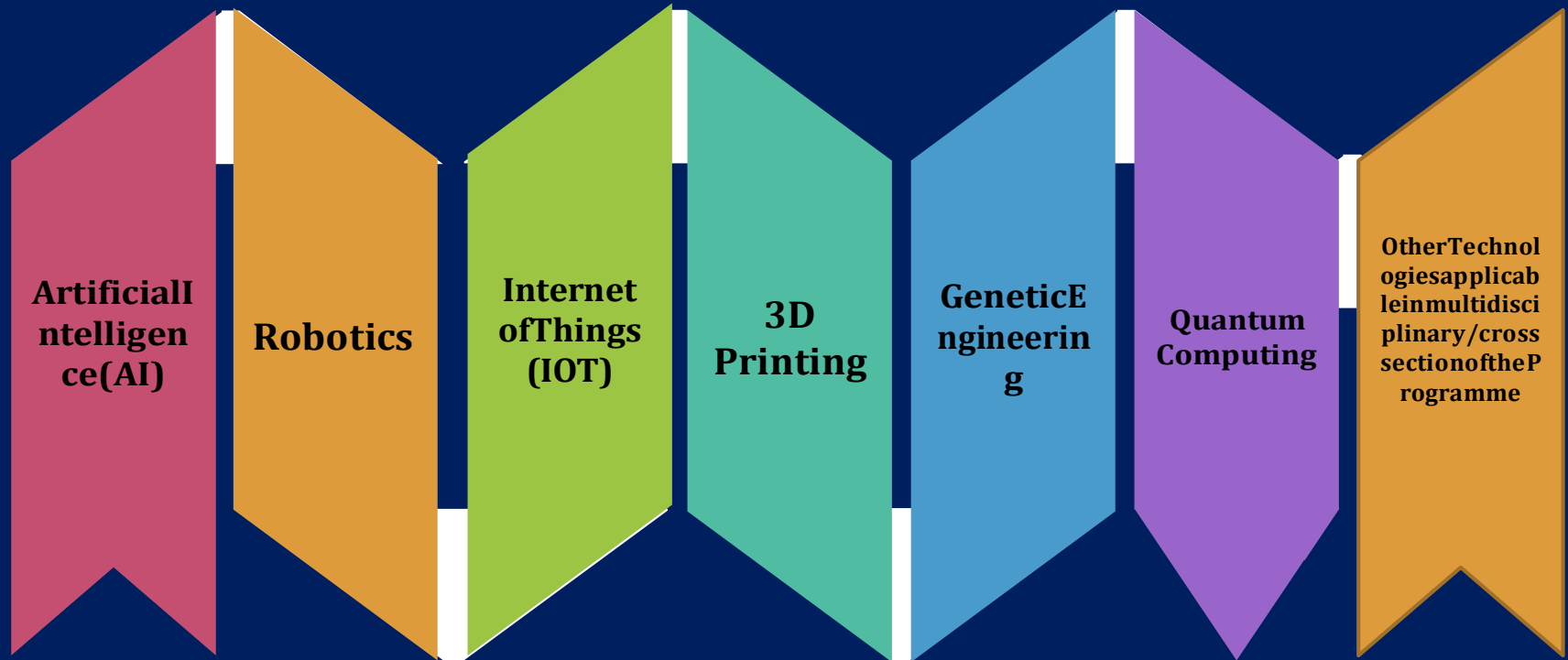
NEP:CurriculumFramework

Emphasisofdevelopmentoflearningoutcomesforcognitive,psychomotorandaffectivedomain.

Embeddingentrepreneurshipdevelopmentfororientingandenhancingselfemploymentawareness,whichultimatelywillenabletheme conomicindependent.

NEP:CurriculumFramework

Holistic development or continuous and comprehensivedevelopment ofallindividuals.

Studyoneormorespecializedareasofinterestatadeeplevel,andalsodevelopcharacter,ethicalandConstitutionalvalues,intellectualcuriosity,scientifictemper,creativity,spiritofservice,and21stcenturycapabilitiesacrossarangeofdisciplinesincludingsciences,socialsciences,arts,humanities,languages,aswellasprofessional,technical,andvocationalsubjects.

NEP:CurriculumFramework

Embeddingsoftskillslikeleadershipcreativityanalyticalabilities,communicationskills,values,attitudesforpreparingstudentstodevelopsocialskillstocontributeeffectivelyandefficientlyathome,societyandalsotowardshis/herprofession.

Focusonuseofdevelopinglearningmaterialinregionallanguages.Promotingmultilingualismandthepoweroflanguageinteachingandlearning;

NEP:CurriculumFramework

Focus on development of effective teaching, learning, integration of technology using ICT basedtools.

Moving towards faculty and institutional autonomy;

Revamping curriculum, pedagogy, assessment, and student support for enhanced student experiences

NEP:CurriculumFramework

NEP:CurriculumFramework

EstablishmentofaNationalResearchFoundationtofundoutstandingpeer-reviewedresearchandtoactivelyseedresearchinuniversitiesandcolleges.Willactaspeakbodythatwillfosterstrongresearchcultureandbuildresearchcapacitycoveringhighereducation

GovernanceofHEIsbyhighqualifiedindependentboardshavingacademicandadministrativeautonomy;

"Lightbuttight"regulationbyasingleregulatorforhighereducation;

Lifeskillssuchascommunication,cooperation,teamwork,andresilience;

NEP:CurriculumFramework

PhasingoutsinglestreamHEItovibrantmultidisciplinaryinstitutionstoencouragehigh-qualitymultidisciplinaryandcross-disciplinaryteachingandresearchacrossfields.

Phasingoutthesystemofaffiliatedcolleges.Aftersuitableaccreditationbenchmark,academicadministrative,financialreforms,theymaybeconvertedintoautonomousdegreegrantingcolleges.Willbegrantedgradedautonomyinphasedmanner.

Academic,administrativeandfinancialautonomy(withpublicfinancialsupport) withsuitable   accreditation

NEP:CurriculumFramework

TYPESOFINSTITUTIONS

A — Collegesaffiliatedtouniversityafterbenchmarkingandaccreditation

B — Autonomousdegree-granting Colleges

C — Multidisciplinaryinstitutionofhigher learning

D — Research-intensiveor Teaching-intensiveUniversities

E — Public HEI
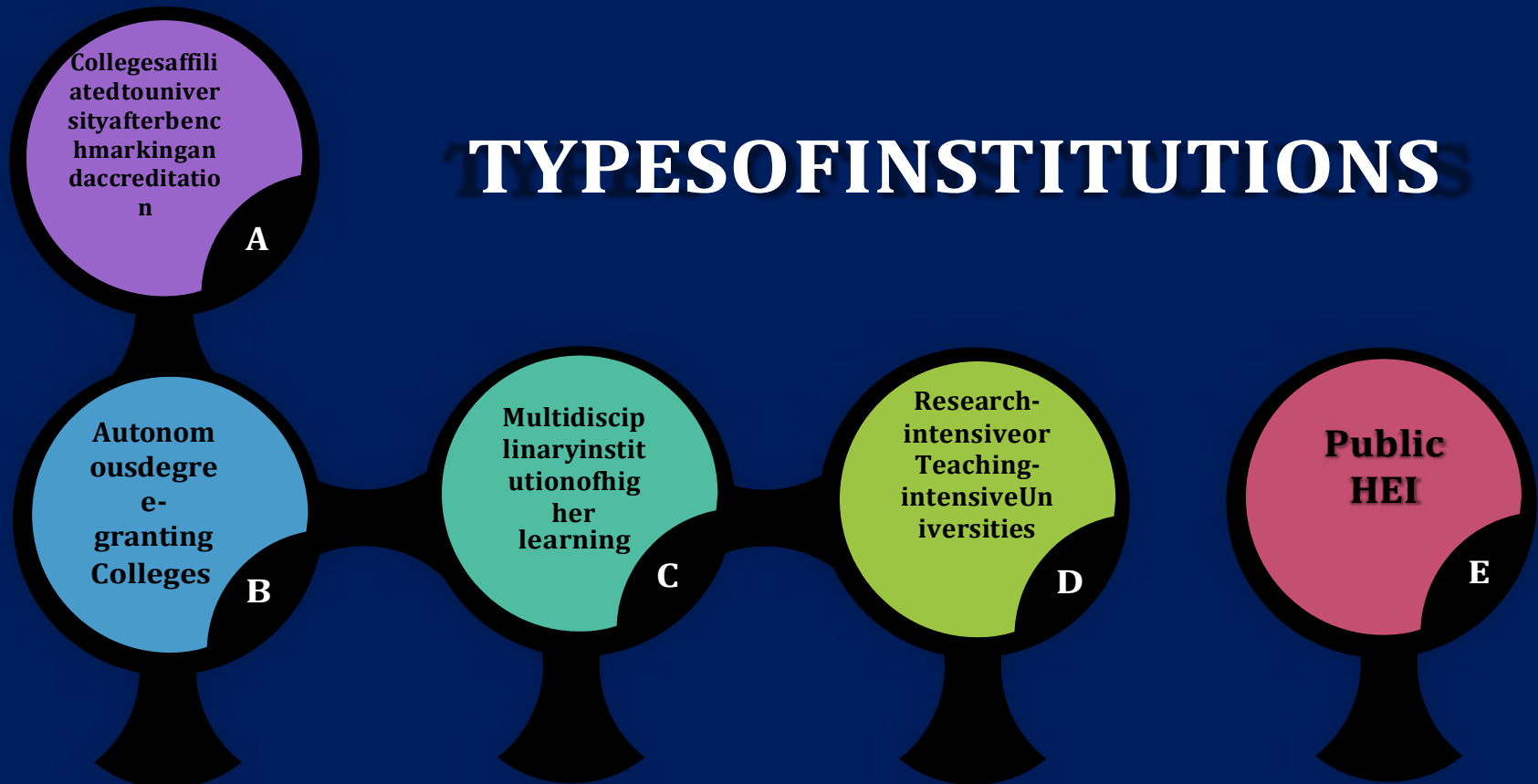
Supportingother HEIsintheirdevelopment,communityengagementandservice,contributiontovariousfieldsofpractice,facultydevelopmentforthehigher educationsystem,andsupporttoschooleducation.

Creationofvibrantmultidisciplinarycommunities

NEP:CurriculumFramework

FlexibleCurricularStructure:Imaginativeandflexiblecurricularstructureswithcombinationofdisciplineswithmultipleentryandexitsystemandcreatingnewpossibilitiesforlife-longlearning.

ResearchSpecialization:Rigorousresearch-basedspecializationformultidisciplinaryworkinacademia,government,andindustry.

Internships/IndustrialTraining:Practicalexperienceswithlocalindustry,businesses,artists,craftspersons

NEP:CurriculumFramework

Credit-basedcoursesandprojects:Areasrelatedtocommunityengagementandservice,environmentaleducation,andvalue-basededucation.Environmenteducationwillincludeareassuchasclimatechange,pollution,wastemanagement,sanitation,conservationofbiologicaldiversity,managementofbiologicalresourcesandbiodiversity,forestandwildlifeconservation,andsustainabledevelopmentandliving.

Value-basededucation:Developmentofhumanistic,ethical,Constitutional,anduniversalhumanwillbeconsideredanintegralpartofaholisticeducation.

NEP:CurriculumFramework

MultidisciplinaryEducationandResearchUniversities(MERUs)willbesetupandwillaimtoattainthehighestglobalstandardsinqualityeducation,atparwithIITs,IIMs,etc.

ResearchandInnovation:focusonresearchandinnovationbysettingupstart-upincubationcentres;technologydevelopmentcentres

NEP:CurriculumFramework

Inclusionofco-curricularandextracurricularactivities:CounsellingSupport:toensurephysical,psychologicalandemotionalwell-being.

SupportsystemforODL:Norms,standards,andguidelinesforsystemicdevelopment,regulation,andaccreditationofODLwillbeprepared,andaframeworkforqualityofODLthatwillberecommendatoryforallHEIswillbedeveloped.

NEP:CurriculumFramework-MotivatedTeachers

Student-teacherratiosnottoohigh

Ensuringhappy,enthusiastic,engaged,andmotivatedfaculty

Facultywillbeappointedtoindividualinstitutionsandnottobetransferredacrossinstitutionstoensuretheircommitmentforinstitutionandcommunity.

Freedomtoadoptinnovativepedagogicalapproaches,preparelearning,assignmentsetc.AssessmentduringT-L.Empoweringthefacultytoconductinnovativeteaching,research,andservices.

Provisionofrewards,promotions,recognitions,andmovementintoinstitutionalleadershipasincentiveforexcellentperformance.

EffectiveandEfficientLeaders

NEP:CurriculumFramework-MotivatedTeachers

Urgentneedtoraisestandardsandrestoreintegrity,credibility,efficacy,andhighqualitytotheteachereducationsystem.

Multidisciplinary,andintegratedteachereducationprogrammesshallbeinforce.

TheuseoftechnologyplatformssuchasSWAYAM/DIKSHAforonlinetrainingofteachers.

NEP:CURRICULUMFRAMEWORK

MobilityAc rossGener alandVocat ionalEduca tion

Vocationalization ofHigherEducatio nandskillsdevelo pment

TheNationalSkillsQualificationsFr ameworkclarityoncredits,credittransf er,verticalandhorizontalmobilitya mongstacrossgeneralandvocationa leducation.MOEwillconstituteaNati onalCommitteefortheIntegrationof VocationalEducation(NCIVE)

NEP:CurriculumFramework

- **ProfessionalStandardSettingBodies(PSSBs):**PSSBswouldhelpinspecifyingthecurriculumframework,withinwhichHEIsmaypreparetheirowncurricula,setthestandardsorexpectationsinparticularfieldsoflearningandpractice

- Integrationofhumanitiesandarts,withscience,technology,engineeringandmathematics**(STEM),NowSTEAM**

NEP:CurriculumFramework

HigherEducationCommisssionofIndia(HECI)-

WillonlybethebodyforentireHEexceptmedicalandlegaleducation,withfourverticals,withinitsumbrella-

1 **NHERC-NationalHigherEducationRegulatoryCouncil-willbesinglepointregulatorforHE**

2 **NAC-NationalAccreditationCouncil-foraccreditationofinstitutionsbasedonquality,self-governanceandautonomy.**

NEP:CurriculumFramework

HigherEducationCommisssionofIndia(HECI)

3 HEGC-HigherEducationGrantCouncilfor fundingandfinancingtohighereducation.

4 GEC-GeneralEducationCouncil-forstandardsettingand frameLO(GA)forhighereducationprogramme.Formationof NationalHigherEducationQualificationFramework(NHEQF) insynwithNationalSkillsQualificationFramework(NSQF)toe asetheintegrationofHEwithVocationaleducation

NEP:CurriculumFramework

Flexiblecurricularstructurewithcombinationofdiscipline

Multipointentry,Multipointexit

ChoiceBasedCreditSystem(CBCS)

Opportunitiesforlifelonglearning

Accumulationofcredits(AcademicBankofCreditshallbeestablished)

Durationoftheprogramme

Choiceoftheprogramme

NEP:CurriculumFramework

Flex

Selectionoftheprogrammeasper interest

Modeoflearning

Learningatone'sownpace

Verticalandhorizontalmobilityacrossthedifferentdiscipline/education,asperaccumulationofthecredits
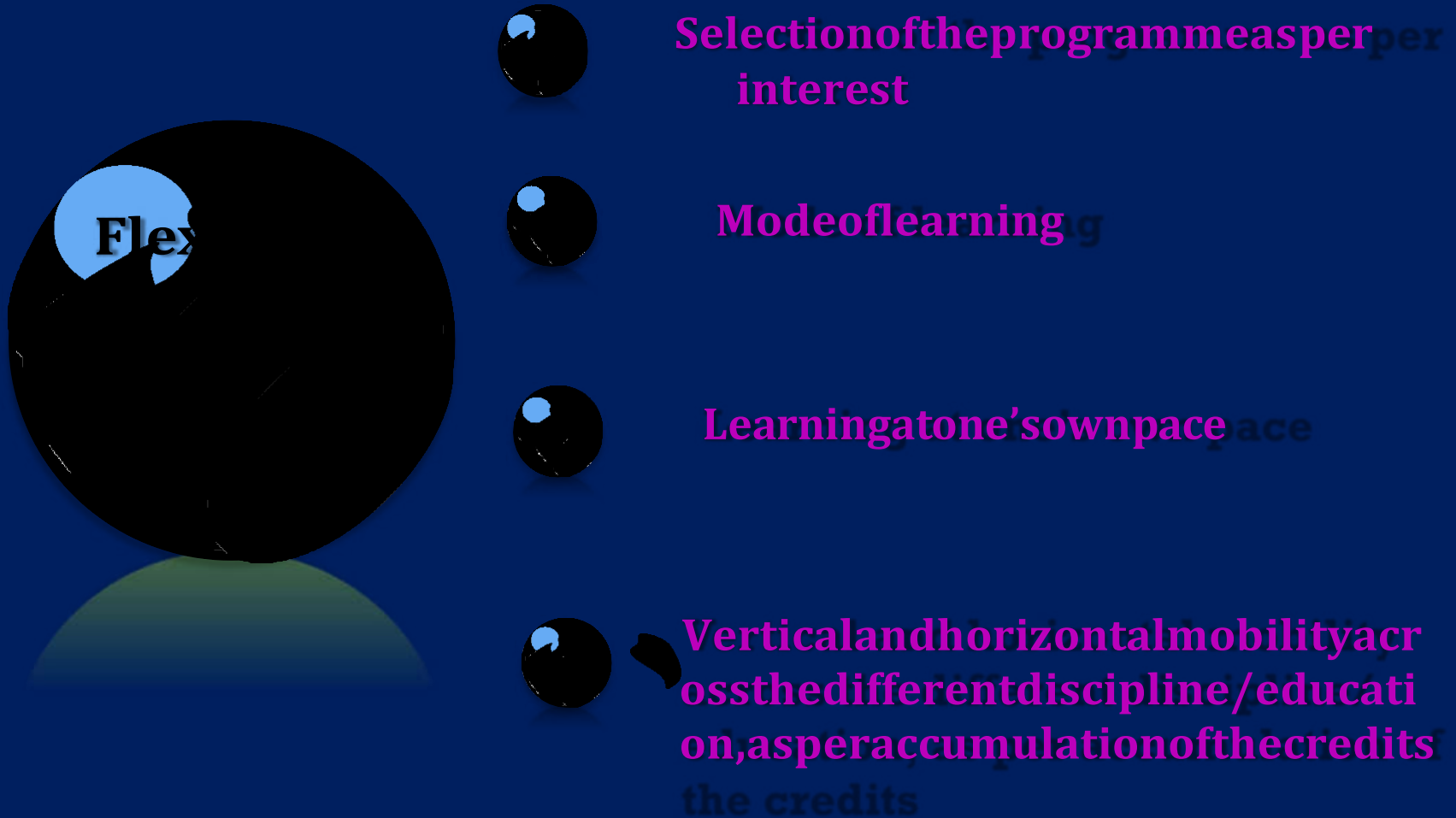
NEP:CurriculumFramework

At PG level Advanced research oriented courses may be included with flexibility of no fix content & open labs

The curriculum should include sopen electives courses to develop soft skills, professional courses on cutting edge technology, multidisciplinary open labs, community based social projects.

NEP:CurriculumFramework

Fewcourses/semestermaybeofferedincollaborationwithoverseasuniversities

EmphasisingivenonModerntoolusagetomakegloballycompetentgraduate

NEP:CurriculumFramework

Emphasisonselfemploymentandstartupsbyinclusionofcourses(entrepreneurship,projectmanagement,etc.),industrialvisits,expertlectures,workshopsandHigherorderlabsinthecurriculum.

UseofvariousinnovativeinstructionalandimplementationstrategieslikePBL,Casebasedlearningmethods&promotinguseofonlinerecoursesfordeveloping(higherlevelofcognitive,psychomotorandaffectivedomainabilities)analytical,creativeandcriticalabilities.

NEP:CurriculumFramework

Inclusionofprofessionalelectivecourses,Higherorder labsandenhancedengagementofindustryatUGandPG leveltowidenskillssoastocopeuptherequirementofw orldofworkinlinewithIR4.0.

Integrationofemergingtechnologiessuchas AI.ML,AR ,VR,IOT,Datascienceandanalyticsetc.appropriately.

InclusionofOpenElectiveCoursesspeciallyrelatedtoPe dagogyasspecialfeature/courseinthecurriculum.

NEP:CurriculumFramework

InclusionofMandatoryAuditcoursesonenvironment,ethics,Indiancultureandcivilisation,IKS,IndianConstitutionforoveralldevelopmentofscholarsasperAICTEandNEPguidelines

Integrationofindustrialtraining/internshipsinsemestergapsandcapstoneproject(majorproject)ineachprogramme.

Inclusionofmicroprojects,assignmentsandotherstudentcenteredactivitieslikeseminars,surveys,interviewsofpracticingprofessionalsineachcoursetocopeupwiththerequirementofoutcomeattainment.

NEP:CurriculumFramework

ImplementationofsomeofthecoursesthroughOnline/MOOCcoursestoenhanceselflearningandlifelonglearning abilities.

Focusondevelopmentofadvancedknowledge&specificskillsrequiredforIR4.0throughproposedCentreofExcellence(COE),industrysupportedlabsandprofessionalcoreandelectivecourses.

Inbuiltmechanismforregularupgradationofcurriculumbyinvolvingallstakeholdersandeducationauditors.

Challenges Ahead

ChallengesAhead

Standardized,consistent,nationallyacceptableoutcomesofdifferentprogrammesacrossthecountrythroughnationalcurricularframework.

GlobalMobility
Flexibilityforlifelonglearning
Recognitionofpriorlearning(RPL)

Needfordifferentmeticuloussub-systemsof(teaching,learning,Curriculum,padagogyandassessment)

EstablishingpathwaysforhorizontalandverticalmobilityamongsttheNHEQFandNSQF.FinetuningthestructureandframeworkoftheHigherEducationCommissionofIndia(HECI)

ChallengesAhead

Fragmentedhighereducationalecosystem;

Limitedaccessparticularlyinsocio-economicallydisadvantagedareas,withfewHEIsthatteachinlocallanguages
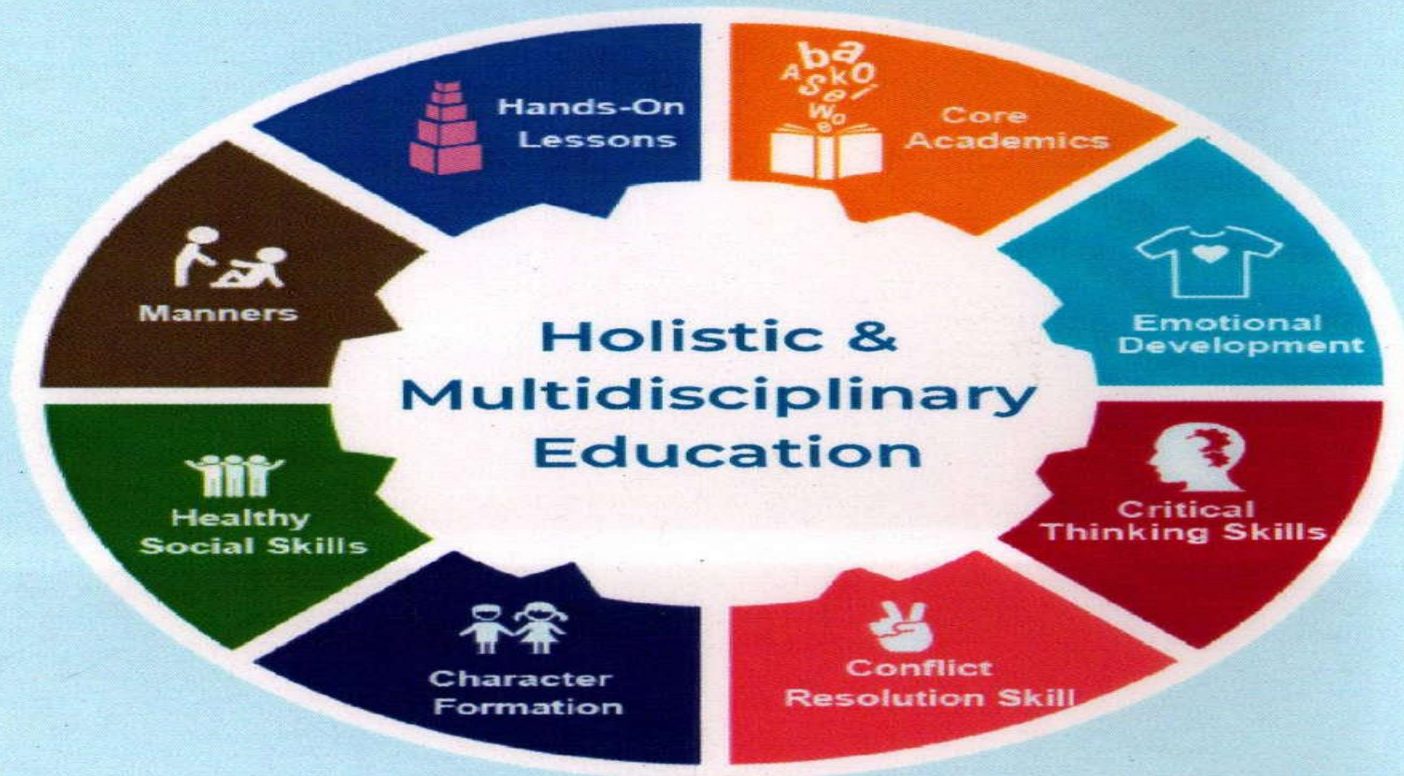
Limitedteachersandinstitutionalautonomy

ChallengesAhead

Inadequatemechanismsformerit-basedcareermanagementandprogressionoffacultyandinstitutionalleaders;

Lesseremphasisonresearchatmostuniversitiesandcolleges,andlackofcompetitivepeerreviewedresearchfundingacrossdisciplines;

Anineffectiveregulatorysystem;

Largeaffiliatinguniversitiesresultinginlowstandardsofundergraduateeducation

Holistic & Multidisciplinary Education

Holistic & Multidisciplinary Education

- Hands-On Lessons
- Core Academics
- Emotional Development
- Critical Thinking Skills
- Conflict Resolution Skill
- Character Formation
- Healthy Social Skills
- Manners

"A **Holistic and Multidisciplinary Education** would aim to develop desired qualities in human beings that possess critical 21st century capabilities in the fields across the arts, humanities, languages, sciences, social sciences, soft skills including professional, technical, and vocational fields.

Revamping Curriculum, Pedagogy, Assessment, and Student Support

Curriculum

Pedagogy

Assessment

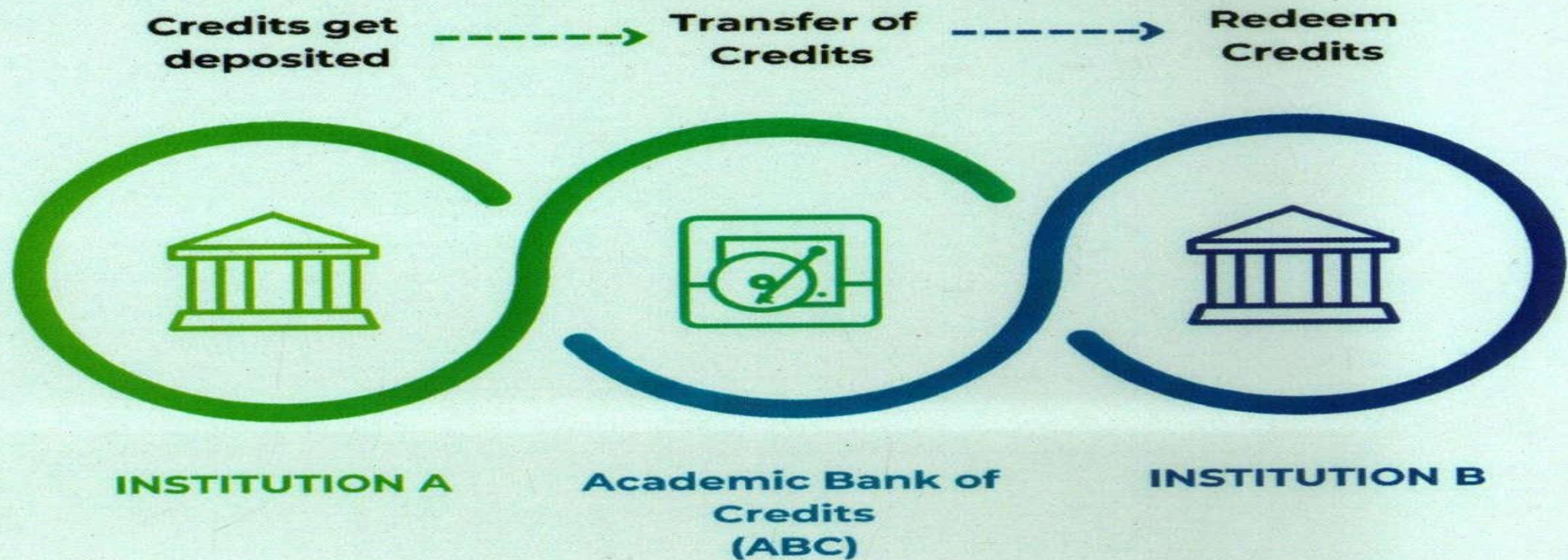**Student Support**
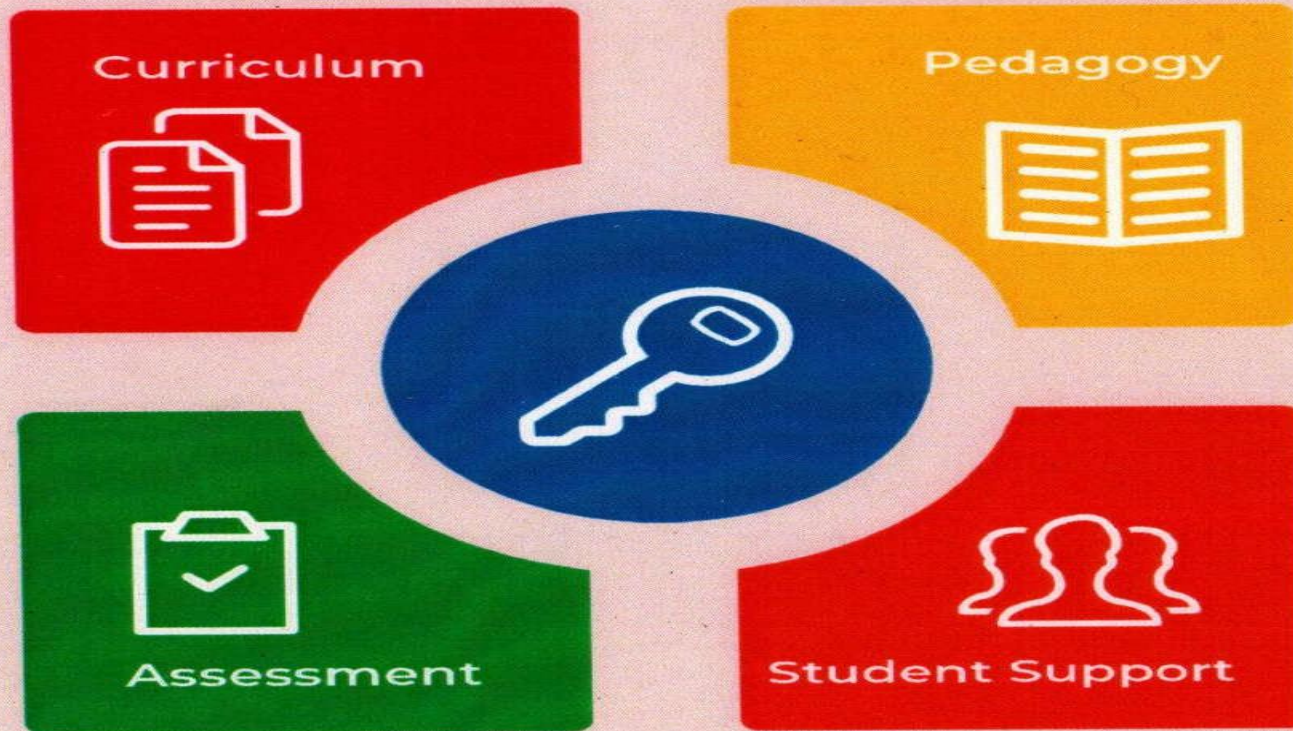
❝❝ NEP advocates outcome-based curriculum and criterion-based grading system for assessment, with appropriate student centric pedagogical approaches. It also emphasizes to design curriculum based on community connect, 21st century skills etc. including providing adequate student support system.

National Credit Framework and Academic Bank of Credits (ABC)

Credits get deposited - - - - - -> Transfer of Credits - - - - - -> Redeem Credits

INSTITUTION A

Academic Bank of Credits (ABC)

INSTITUTION B

> An Academic Bank of Credits (ABC) has been established which would digitally store the credits so that the degrees can be awarded by various recognized HEIs considering the credits earned. Credits awarded to a student for one program from an institution may be transferred by another institution upon student's consent, which is the key to the student's mobility.

Inclusion of Liberal Arts in the Higher Education Curriculum

"The curriculum of HEIs include basic Arts, Crafts, Humanities, Games, Sports and Fitness, Languages, Literature, Culture, and Values, in addition to Science and Mathematics, to develop all aspects of learners' brains and make education more well-rounded, useful, and fulfilling to the learner.

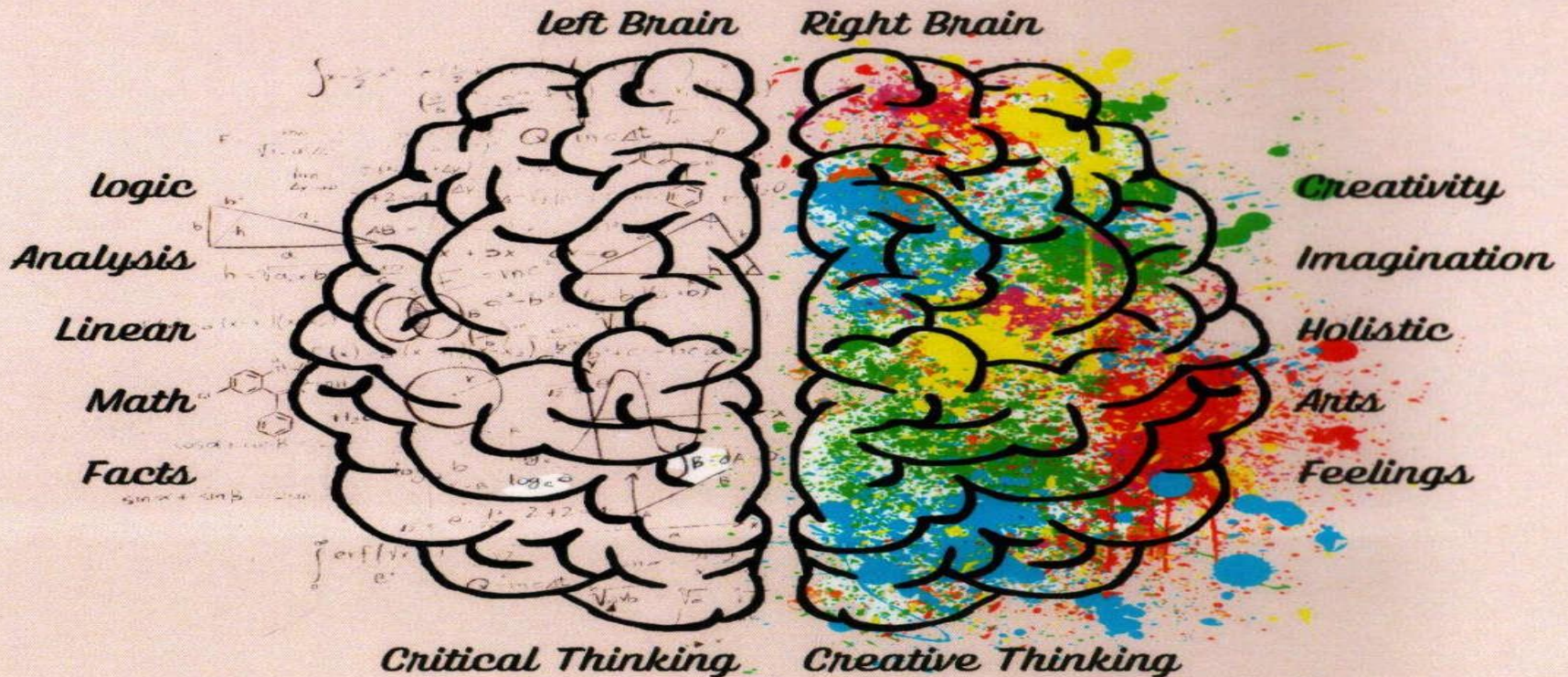# Indian Knowledge System in the programmes offered by HEIs
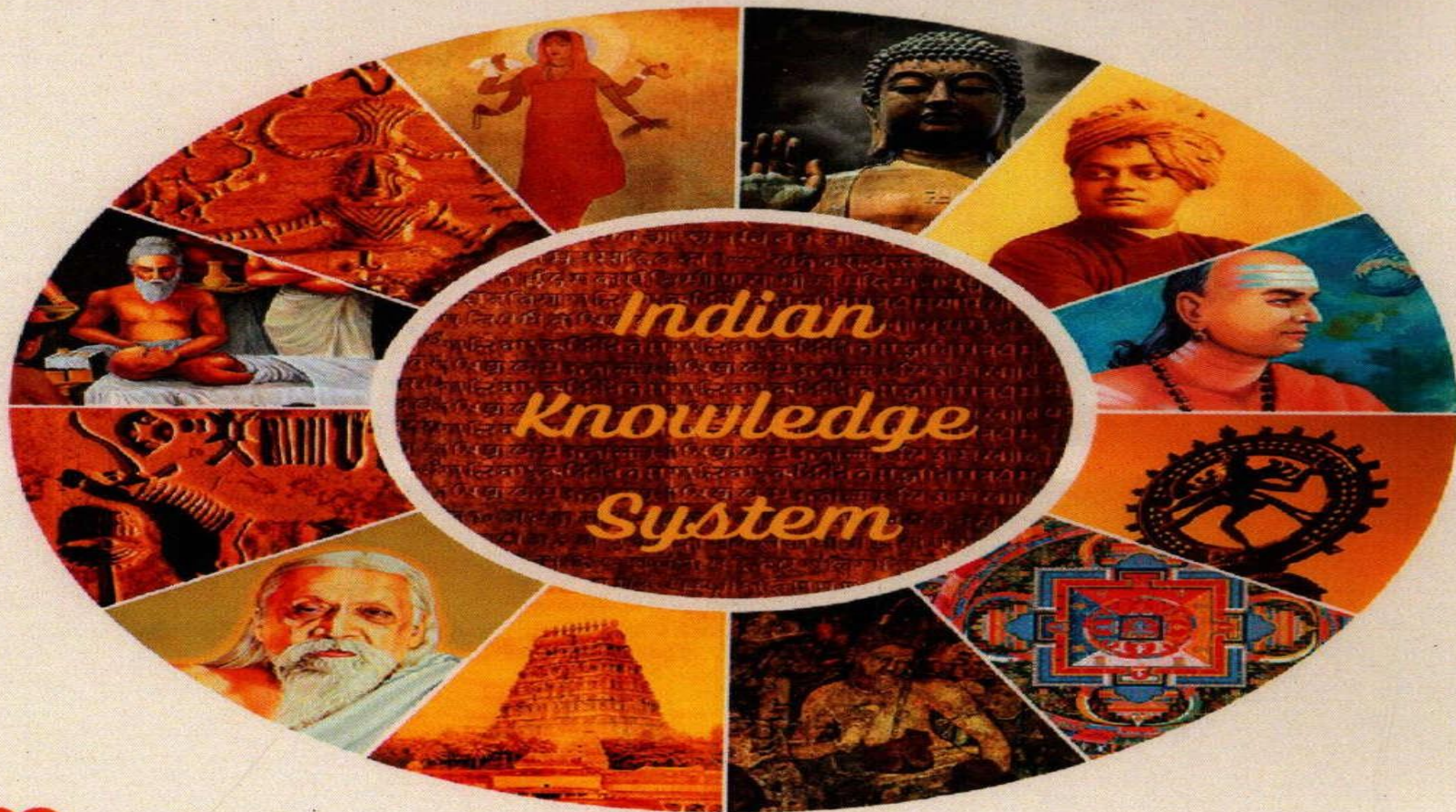
> The rich heritage of ancient Indian knowledge and thought has been a guiding light for NEP, and this knowledge will be put to new uses through our education system and included in the courses in mathematics, astronomy, philosophy, yoga, architecture, medicine, agriculture, engineering, linguistics, literature, sports, games, liberal arts etc.

Education in Regional Languages

தமிழ்
ગુજરાતી
ଓଡ଼ିଆ
ಕನ್ನಡ
बाংলা
हिन्दी
मराठी
नेपाली
పంజाबी
తెలుగు
വാ

> Multilingualism and the power of language has been a focus of NEP 2020. The use of mother-tongue as medium of instruction as much as possible has been emphasised because numerous cognitive science experiments have shown that students make great strides in education if they do not face an alien medium in the initial years.

Critical and Creative Thinking

left Brain   **Right Brain**

logic

Analysis

Linear

Math

Facts

Creativity

Imagination

Holistic

Arts

Feelings

Critical Thinking   **Creative Thinking**

> NEP aims to develop good, well-rounded, and creative individuals. It proposes to enable an individual to study one or more specialized areas of interest at a deeper level, while at the same time build intellectual curiosity, scientific temper, creativity, spirit of service, and 21st century capabilities across the range of disciplines.

Ethics, Human and Constitutional Values

integrity   moral   principles

value   honesty

honor   **ETHICS**   right

choice   fairness

conscience   responsibility

VALUES

> NEP proposes to build character, ethical and constitutional values, (e.g., empathy, respect for others, cleanliness, etiquette, courtesy, democratic spirit, spirit of service, scientific temper, liberty, responsibility, pluralism, equality and justice), and life skills (e.g., cooperation, teamwork, communication, resilience).

Promoting Digital Education and Use of Technology

"NEP along with Digital India Campaign aims to transform the entire nation into a digitally empowered society and knowledge economy. Given the explosive pace of technological development, it is certain that new technology will impact education in multiple ways as well as its outreach to the society for their upliftment.

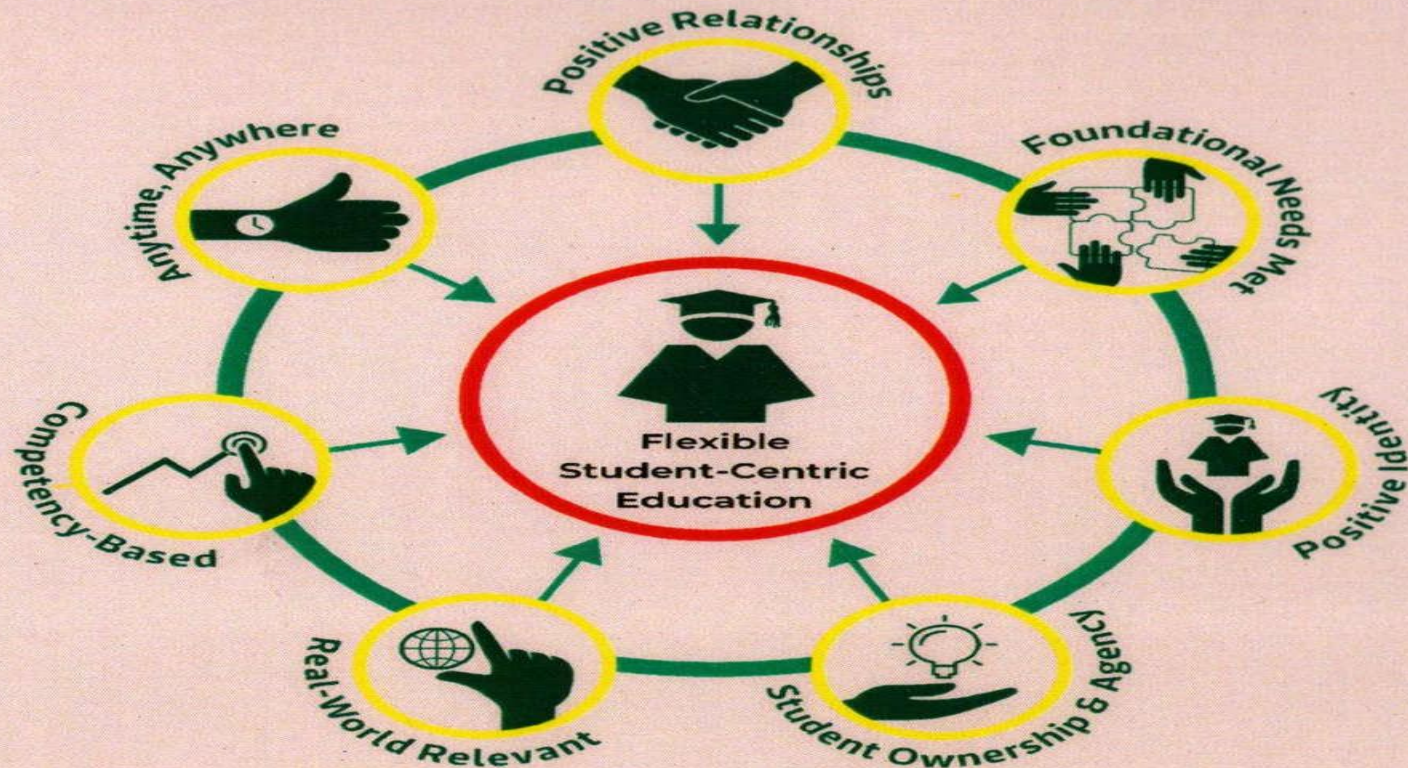# Full Equity to ensure that all Students are able to thrive

" One of the principles on which NEP is based is full equity and inclusion as the cornerstone of all educational decisions, to ensure all students are able to thrive in the education system.

Integration of Vocational Education in Higher Education

NEP-2020 sets a goal of achieving skill development among at least 50% of learners through the school and higher education system by 2025. NEP advocates to integrate vocational education into all school and higher education institutions.

Flexible Student-Centric Education

Flexible Student-Centric Education

- Positive Relationships
- Foundational Needs Met
- Positive Identity
- Student Ownership & Agency
- Real-World Relevant
- Competency-Based
- Anytime, Anywhere

"One of the principles on which NEP is based is flexibility for the students to choose their learning trajectories and programmes, and thereby choose their paths in life according to their own talent's and interests to ensure the integrity and unity of knowledge and eliminate harmful hierarchies among, and silos between, different areas of learning.