

IDENTIFICATION OF MODIFIABLE FACTORS THAT AFFECT THE CONTENT OF COURSES IN INDUSTRIAL MANAGEMENT TO LABOR MARKET NEEDS AND CUSTOMER

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Abstract

With all theefforts to improve the curriculum of humanities courses in universities is done is still much to be seen and weaknesses of different. In recent years there has been suchamismatch students, graduates and the demand sofindustryand the labor marketis During theresearchneeds of the labor marketin the field of industrial managementas one humanitiesgroupwas.Inthis ofthedisciplinesofthe study thecontentthematiccourses inindustrial management from the perspective of 24 experts examined .8 proposed solution was determined. Then what is and whatshould be thecontent of theexisting industrialmanagementcurriculumtorespondtothe labor market, were studiedin terms theeffectivefactorson of8Strategy.After checking the adjustment ofindustrialmanagementcourses, theseprioritieswere assignedbythenetworkanalyzer. Finally, the effectson eachotherwas identifiedthrough analysis of DEMATEL.

Keyword: Industrial management, Labor Market, ANP, DEMATEL

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Introduction

The currentworldeffortstowardsprogress and development in all fields is. Developed countries are still at the helmof affairs have been developed and the developing countries have increased their efforts.

One of theprerequisites forprogress invariousfields ofbusinessand applicationknowledge.Knowledgeoftheformsis possible.One way ofacquiringandapplying knowledgeinthe fieldofeducationisthe scholar. Educationin thecountryincludescourses inelementary,high school andthenuniversity.Exploitation ofyouth andyouth developmentincollegeisboominglabor market. [1]

Today's job market is a lack of concern for what it is graduate job market needs. The first step to improve the current state of the labor market, improving the transfer of knowledge to young people at university. Factors influencing adjustment of industrial management, curriculum content, the job market is important because industrial management students after graduation job market will encounter closed doors. They can not meet market expectations.

Administration degreefrom theuniversity's collection.Includingsub-categoriesthatarespecificto eacharea. Underhismanagementoftheindustry.The coursehas threemain dimensions, the technical, financial, and behavioral andsocial.[2]

[2]Many of thetechnicalrequirementsandskillsneeded ineach countryis providedby theoutput of theuniversitycommunity. The lack of attention to education in particular "the quality of the academic education, many problems can lead to damaging results simply will not improve The chaos and confusion in many commercial and manufacturing establishments that generally "due to mismanagementor lack of management principles. According to the following four research questions were posed:

1-Thecurrent status of industrial management courses to meet market needs is desirable?

2.Factors influencingadjustment of educational contentcourses inindustrial managementin line withwhatthe marketneeds?

3.Stronginfluenceof these factors oneach otherright?

4. Their experts to meet the needs of the labor market are ranked relative to one another what?

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Researchaimed atidentifying. ranking, and determine theimpactofcurriculumcontentfactorsaffecting theadjustmentof industrial managementdecisionsaccording tomarket needsusingthecriteriaof multiple(MADM)is. Thisstudy wasexploratory and descriptive of the purpose, is applied. After collecting data from question naires and collectthe related Usingnetworkanalysis process(ANP)to categoryadjustmentfactors on the contentoftrainingcourses inindustrial management Andthen useDEMATELmethod todetermine theseverity of theimpactof these factorswas.AssistantProfessor ofIndustrial Management, 60 researchprofessionalsand highergrade At least10 vears ofacademic and continuing cooperation with the Department of Learning And industry executives with at least a bachelor'sdegreeand 15years experienceinthestaffingindustry.

Themost difficultpart ofaction forcurriculum planning, contentselection.Professionaltrainingprograms, standardsandcriteriafor theselection ofcontenttheyprovide.HildaTaba, validity and significance, consistent with therealitiesof socialinteraction inbreadth and depth, providing a wide range of targets, Having the ability to learn, having the ability to adaptandfit thelearner's previous experiences with the needs and interests of contentselection criteriadoesthe audience. [3]

TheSilver, AlexanderandLewis, contentfeatures :Theideaisto introduceadisciplineanda clear ofthe fundamentalstructure of thediscipline's understanding understanding Usingexamplesandcasestudiesas well asmethods, concepts and principles of universal selected to provide.lsthereabalance anddifficult, with the betweeneasv opportunity tostrengthen theglobalimaginationin relationtothe concreteand hasadequatereliability and validity .Wordintermsofcontent, information, eventsand issuesin ascientificarticleiscited .Content, a summary of thefacts, concepts, generalizations, principles, and theories of knowledge in the fieldisthe same. [4] Educationexpertson how tochoosethecontentand presentation of the basic principles are the following: [5] The content and purpose of the relationship, the relationship betweencontentand reward-related content and potential students about the content andtiming, content, and usefulness of the relationship, the relationship between the content and the content and relation between vertical and horizontal.

Review and analysis of data

AnalysisofNetworkGroup(GANP)usedinthisstudyare as follows:

1. Defineand drawtheANPnetworkconsideringcompetingoptionsandcriteria.

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March 2013

JPSS

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2. Datacollectedthrough thematrixofpairedcomparisons

- 3. Compatibilityrate(the rateatindividualconflictsresultingmatricesare calculated
- 4. .Analyze data(thisstep isconsistent with the corresponding matrix is based on integrating geometric mean).
- 5. .Calculate therelative weightof eachmatrixandthesuper-matrix
- 6. Aoddcanrowfullsupermatrixuntilconvergence
- 7. Obtained therank of each of the options. [6]

andwaysofcreatingandextractingtheresultingideasareappropriatetothestructureof Indicators theorganizationwasthe direct and indirectcommunication. Thisstructurecan beuseda **DEMATELisone** varietyof techniques. of Rateseverity ofthis them. techniquetoexaminetherelationships, theimportance offeedbacksassociated withtheinvestigationandtherelationshipisinalienable. [6]The steps of DEMATELtechniqueisas follows:

1: identify thecomponentsofthe systemwiththeexisting approachessuch asthe Delphi method. Theelementsofeachstationornodecreatesgraphicaldiagrams. [7]

2: thevertices of a given element in the diagram and to determine the relationship of the communication between stations. [8]

3: Maketheconsensusjudgment of expertsfor therelationshipbetween anytwo elementsAandBmay bespecified.[9]

4:consensusoftheexpertscalledtotheelements.[10]5:Finalscore,fortherelationsofthematrixMDiagraphsetforashow.[8]

6: Each entryof the matrixMin themostadversepositionrow(α)matrixmultiply(M = α .M) [11]

7: the sumofan infinitesequenceofelements of direct and indirect effects on one another to form ageometric progression, based on existing law graphs, calculate: [12]

Asum of a geometric progression =
$$\underset{1 \to \infty}{S} = M^1 + M^2 + M^3 + \dots + M^t = M \frac{(I - M^t)}{(I - M)}; \lim_{t \to \infty} M^t = 0$$

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59

and



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indirectrelationshipsbetweenthe intensitymaybe

calculatedforagivenDiagraph.

f8:The intensityof therelationshipmay beindirect (the elementsonone another) to calculate[12]

$${\rm \acute{S}}_{t\to\infty} = M^2 + M^3 + M^4 \ldots + M^t = M^2 (I-M)^{-1}$$

9:

Ofalldirect

hierarchicalstructureofelementsmay bespecified.[7] Dataanalysiswas carried outinfour steps:

First stage: To answerthe firstresearchquestion, sets of courses inindustrial management In 24subject matterfrom theperspective ofexpertsreviewed andevaluated .After preliminaryassessmentdeterminedthat 35original problem.Resultswere used toevaluatetheproposedsolutions.Theevaluationgap betweenthe existingindustrialmanagementcourses Andtheoptimal(according to expertopinions) and determinewaystoeliminatethegapslisted inTable 1were presented Theresultscan beconsideredsatisfactorystatus ofindustrialmanagementtrainingcontent. not Becausesomehowallrequiredcoursesaremodifiedto suit the Table 1.

Course	Experts agree		action proposed	ROW
	Industry	Teachers		
Industrialpsychology,	80	90	Updatingcontent	1
managemen <mark>t,org</mark> anizational behavior,		and the second se		
accounting, statistics,	A #			
computing,human resource	1.1.71			
management, production	A Y I			
management, statistical quality control,				
industrial protection				
Industrialpsychology,	95	95	Aworkshop	2
organizationalbehavior management,				
financial management, production				
management				
Accounting, research, human	100	100	Project-	3
resources, production management,			orientedenvironment	
statistical quality control, project				
control, andclockergo meter, plant				
management, systems, productivity				
Accounting, statistics,	100	100	Educationsoftware	4
computing,financial management,				
operations research, statistical quality				
control, projectmanagement,				

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Volume 3, Issue 3



90	85	DevelopmentIssues	5
80	90	Increase thenumber of	6
		units	
85	85	Visit	7
		theIndustrialEnvironment	
85	90	Hand Workinginfactory	8
	90 80 85 85	90 85 90 85 80 90 85 85 85 90	9085DevelopmentIssues9085DevelopmentIssues8090Increase thenumber of units8585Visit theIndustrialEnvironment8590Hand Workinginfactory

Table 1 – outlines

StepTwo:Forthe second questionafter reviewingthelessonsandstrategiesfrom experts inthefield of industrial management factors on the adjustment of educational content and the Delphi method follows a three-steps equence was derived:

•strategicplatformsincludesupport forschools, approved by the Ministryof Science, clear and accurate understanding of the goals and benefits of mitigation and long-term strategic approach to educational content and modify the educational content

•tacticalfactorsincludingcostanalysistomodifythe educational content, educationalcontent isa bitoutofadjustment, change management and detailed analysis of the adjustments.

Culturalfactorsinclude: overseeingthe evaluationprocess ofmodifyingcontent,effectivemitigationplans-clear andtransparentorganizational cultureanalysis, adjusting forthe effects oflabor marketandeducational contenttostudents,alumniand theindustrydemands, according tolocalofcourse

Thirdstage:ThefirstnetworkwasbuiltusingANPnetworkanalysistechniques.Thepairedcomparisonmatrixofeachexpertandinconsistencyratesweredeterminedseparatelyforeachmatrix.Thematrixwasacombinationofsuchmatrices.Vectorsrelativeweightswerethensuperpowersofamatrixof37timesconsecutiveconvergentresult is:

1 - Prioritizemain criteria: strategic0.425, 0.227 cultural, social, tactical.198 and.150.

2 -15-fold the prioritizationcriteriaasin Table2.

61



Volume 3, Issue 3

prioritization of Factors				
Wi	Factors			
0.245	Approved by the Ministryof Science			
0.126	And long-termstrategicapproachtoeducational contentadjustment			
0.124	Developing aneffectiveadjustment programs, clear			
0.089	Change Management			
	Moderatingeffectonthe labor	5		
	marketandeducationalcontent tostudents ofIndustrial			
0.087	Management			
0.065	Havingcleargoals and vision adjustment			
0.063	Supporteduniversities			
0.044	Monitoring and evaluation process of adjusting content			
0.03	Demandsofindustry and society inindustrial management graduates			
0.027	Quantificationofmodifiedinstructional content			
0.026	Localizationofcoursestailored tocommunity of IRAN			
0.024	Clear and accurate understanding of the goals and interests of			
0.02	Analysis of corporate culture			
0.016	Detailed analysis of the adjustments			
0.014	Analysis and adjustment costs associated with educational content			

Table 2 - Parameters Part B criteria

3 -Prioritizethecriteria forstrategicdecisionsof the Ministry of0.351, and long-term strategicapproachtomodify theeducational content of0.257, 0.197anduniversitysupportclear andaccurateunderstandingof thegoals and interests,0.195

4 -Criteria forprioritizingcultural factor: 0.312, transparent and effectivemitigationplans, monitoring and evaluationprocess tomodifythe content0.294, industry and communitydemandsand analyzingorganizational culture0.1570.237graduates.

5 -Criteria forprioritizingsocialfactors: modulatingeffectsonthe labor marketand studenteducational content was0.533, 0.302, and adjustingthegoals and vision of the local community according to 0.165 Course

6 -Criteria forprioritizingtacticalfactor: 0.413Change Management, a smalladjustmenttothe educational contentof0.299, 0.168and analyzedetailed analysis oftheadjustmentcosts associated withmodifyingthe educationalcontent of0.120

StepFour:Inorderto answerthe fourthquestionDEMATELtechniqueresultsin Table 3were obtained. After extraction of the main factors of success and paired comparisons matrix, the matrixX, M, and Swere formed. The results of the calculations were done. Computings of tware «MATLAB» do and the values: (R), (J), (R + J), (RJ) was determined.

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Conclusions

Based on the results of the decisions of the difference between the relatively "high compared to therestoftheweight gainedby theexpertsarethe first priority. Afteradjusting forfactorsand longtermstrategicapproach toeducational contentis locatedin thesecond priority.Developmentofamitigationplaneffectively, manage change, mitigate the effects on the labor marketand studenteducational content, aclearvisionandgoals, and modulators...Order ofpriority inthe third. fourth. fifth and...Have been.The thingis remarkable that itcausesweightgainbyweighingthe first factor, the difference with theweightsobtained byotherfactors, Alsochecktheweightsofsub-factors undereachfactoris characterized by the actors related tothestrategicoperatingweightsofmost of the experts have obtained, it shows the importance ofstrategicfactorsinadjustingthe contentiseducational. Thus, it is proposed to modify the content of theeducationauthoritiesanddecision-makersin thefield ofindustrial managementoptions **Reflecttheviewofstrategicchoice** Andconsiderthese factorsmore **Obviouslythemain** criteriaand sub-criteria whichmustbe consideredtogether

Weightadjustmentfactors foreach of thelearningcontentbased on theamount of (R + J)is definedand(RJ)The neteffectofanagentontheothershows, sohow much(RJ) is a positive factor, Managingtheeffects ofotherfactorswill beconsideredmore effective and whatismore negativefactoristhe more Impressionable.Obviouslydue tothe difference between thevalues of(R)stronglyinfluence and(J)stronglyinteract, each agentisassociated withhigherlevels ofRonJor vice versa, influenceorinteractexactcausewill be determined definitively. Inthissection, according todata fromthesteps ofDEMATELandvalues(R), (J), (R J), (RJ)andclassifiedDiagraphthecorrespondingmatrixX,the factorsthatmodify theeducational contentbeforetheseason, the weight of expert opinion and net impact has been ranked, is evaluated.

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No	Classification of priority	R+J	Туре	No	Classification of priority	R-J	Тур
•				•			e
1	Approved by the Ministryof			1	Moderating effect on the		
	Science				labor market and student		
		5.927			educational content	0.83	
		4	-			96	
2	Supporteduniversities			2	Analysis ofcorporate culture	0.74	
		5.802	-			53	
3	Analysis andadjustmentcosts	5.639		3	Supporteduniversities	0.70	
	content	6				62	
4	Analysis ofcorporate culture	5.482	-	4	Quantificationofmodifiedinstructio	0.56	
		7			nal content	<u>06</u>	
5	Monitoring and evaluationprocess	5.443		5	Developing aneffectiveadjustment	<u>0.</u> 44	
	ofadjustingcontent	4			programs, clear	27	
6	Moderatingeffectonthe labor	5 100		6	Monitoring and evaluationprocess	0.24	
	marketand studenteducational	5.128			ofadjustingcontent	0.34	
7	Content	0		7		92	
/	programs, clear	5.047		/	tocommunity of IRAN	48	0 <
8	Havingcleargoals	5	-	8	Analysis andadiustmentcosts	-10	Р-Л
Ū	andvisionadjustment	4.704			associated witheducational	<mark>0.</mark> 15	fthe
		4			content	32	acto
9	Localizationofcoursestailored		_	9	Approved by the Ministryof	0.04	mpa
10		4.566	+	10	Science	1	ivei
10	Change management	4.132	onR	10	Havingcleargoals	0.03	fect
11	Clear	2	cts .	11		24	Ē
11	andaccurateunderstandingoftheg	4 127	effe	11	Change management	-	
	oals andinterests of	4.127	ande		r / A	38	
12	Detailed analysis		SS	12	Clear	-	
	oftheadjustments	4.068	ene		andaccurateunderstandingoftheg	0.10	
	/	2	ctiv		oals andinterests of	41	
13	Demandsofindustry		effe	13	Demandsofindustry	-	
	andsocietygraduates	4.061	erall		andsocietygraduates	<mark>0.3</mark> 1	
		9	OVE			07	Q
14	long-		er of	14	Detailed analysis	-	× ل-
	termstrategicapproachtoeducatio	3.869	orde		oftheadjustments	1.35	sare
	nai contentadjustment	2) gn			04	stors
15	Quantificationofmodifiedinstructio		endi	15	long-	-	otfac
	nai content	3.852	sce		termstrategicapproachtoeducatio	1.55	pac
		2	De		ทลา contentaujustment	58	E

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64



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Table 3 - the final effect of each factor on the other factors, and thus the importance of factors in the system

: Resources

1- SadeghiHassanAbadi, M., studythe history and development of higher education, not published.

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