



Is the University Education Losing its Value

Nitin¹, Assistant Professor G. Anburaj²

Master in Structural Engineering, School of Civil Engineering

Vellore Institute of Technology, Vellore, Tamil Nadu, India¹

Assistant Professor of English, School of Social Sciences and Languages

Vellore Institute of Technology, Vellore, Tamil Nadu, India²

Abstract. This research explores the transformation in the value of a university education in the face of rising tuition costs, student debt, and the shifting landscape of the labor market. It responds to pressing challenges advanced by alternative models of education, which have mushroomed with their success in addition to other trends such as online certifications and vocational training and apprenticeships, that are more affordable and practically applicable. Such a study highlights the changes regarding technological advancements in occupations- specially regarding automation and artificial intelligence, as practical skills are valued more than formal education. In addition, this points out that universities are indispensable because apart from vocational training, it adds to critical thinking and intellectual development, and networking as well. In spite of all criticism against traditional higher education, a university still plays a role in the overall development of an individual in possession of knowledge acquired in institutions and with soft skills to make persons successful in the labor market. It finally calls for reevaluation of curricula for universities, which must be drenched with experiential learning and keeping in consideration the needs of the labour market today so that graduates remain competitive and relevant in their fields. This analysis adds to the larger conversation over the role that is being assumed by higher education in society and its inability to flex with the evolution that is happening within the workplace.

Index Terms- Tuition Costs, Student Debt, Job Market, Alternative Education, Online Certifications, Vocational Training

I. Introduction

It is the sign of intellectual growth, progressiveness, and subsequent social elevation in almost any sphere. It has, for centuries, provided the knowledge, the training, and the qualification pathways that lead working-class people to good jobs in a long list of major professions that not only serve as middle-class career opportunities but also contribute to society. In some ways, obtaining a university degree indicates a specific amount of success in life, both personally and professionally. But in the recent past years we have seen mostly having thought that higher education is becoming of less and less value. A perfection storm involving



alternative education venues, rocket-high tuition, technological saturation in almost all business sectors, and a work environment getting more competitive by the game have all combined to incite debates again on whether traditional university education remains as worthwhile as it once was for the price point. This report will provide a space to examine the potentials, concerns, and obstacles of university education as it exists now.

Hence, the scenario of higher education is changing. As online learning with fully realized platforms, vocational training, and bootcamps that promise employable skills to directly fit into your career pipeline begins to outflank the long-term functions of universities as centers of knowledge, the IT giants of the USA have made it possible for students to take a course from the world's best universities in Coursera, Udemy, and Khan Academy and study at their own pace. Most do not pay the exorbitant tuition fee normally tied to enrollment in a “brick and mortar” facility. In short, a lot of prospective college students are questioning if years and thousands of dollars spent will However, the pandemic introduced by COVID-19 has accelerated this transition to online and hybrid learning methods. That meant the 'academic learning'—admissioning a particular body of knowledge and skills could be done outside the brick walls and rows of desks that characterized traditional classrooms. This has been one of the learnings that defies the traditional educational system being inflexible to technology upgrades. With its victories during the pandemic, online education could threaten the monopoly of universities in providing certification for skills and knowledge if students have access to incredibly high-quality learning resources from their homes.

Rising Costs of Tuition and Student Debt

Amongst the most famous concerns regarding university education is the skyrocketing cost of tuition. Currently, student debt in America is at an unprecedented level. Students who graduate from the institution carry a long-term burden of debt. According to recent reports, student loan debt in the United States has crossed over \$1.7 trillion; many students take many years or even several decades to clear their loan balances. In such strained financial circumstances, a degree does not seem to be worth the price paid for it, especially when one considers alternative education that is similarly more economical and at least as effective in imparting marketable skills in specific areas.

The return on investment of a college degree has also been questioned. An amount of time ago, getting a degree pretty much assured employment in careers like law, business, and the humanities. Today, however, jobs have increasingly diffused and are thus extremely competitive. Graduates are frequently stuck in dead-end employment positions that do not require a degree at all or are paid significantly less than initially anticipated. This has led many to wonder whether the benefits of getting a degree still outweigh the costs.

Technological Disruptions and Changes in the Job Market Requirements

In addition, there is the problem of the entry of technological innovations at a high cost. These are AI, automation, and machine learning, which have dramatically changed the job market requirement. Lots of jobs that were in existence ten years ago



are either dead or transformed technologically due to automation and digitalization. This fast-moving environment, according to critics of traditional university education, has made the universities do less in preparing the students for the future workforce. This is because, instead of offering flexibility and adaptability in skills like coding, data analysis, and problem-solving, a theoretical kind of knowledge is what universities aim for, which might not be applicable directly in many job situations.

Recently, most advertised high-demand jobs belong to the fields of tech and data science, which do not necessarily demand going to university. As well, the expectations that well-known companies like Google, Apple, and IBM have reduced when it comes to degree requirements in favor of technical skills and competencies, which can also be acquired through online courses, certification, or even hands-on experience. This new recruitment strategy further threatens the value of a college degree as a qualification necessary for professional success.

The Residual Value of University Education

It will be far too early to say that university education is fast losing its value entirely, despite the hardships and the criticisms. Still very important, for example, in many professions that call for special knowledge and licensure to practice—medicine, engineering, law, and education. Besides, universities are not mere training institutions preparing people for the workplace. They are institutions for intellectual growth, idealism, critical thinking, and research.

Universities also offer students the chance to learn socially, to network with other students and professionals, and to be exposed to diverse ideas and perspectives. Such intangible benefits are often overlooked in the discussion of practical value. The college experience, which supports collaborative learning, mentorship, and engagement with expert faculty, is a unique and formative part of life for many students.

II. Problem Statement

Once the preferred gateway to career success and personal growth, the value of higher education at university level is today being questioned in an increasingly fast world. High tuition fees, stunning amounts of student debt, and an employment market viewed as competitive lead many to question whether a traditional college degree can repay investment fully. Meanwhile, alternative education channels, vocational training, and online certifications are fast gaining prominence as faster, easier, and more affordable routes to 'career readiness.' Additionally, while on one hand, the tides of automation and AI adoption are transforming jobs and redefining their credentials, the same wave seems to raise another challenge to formal university education—for there is no watertight compartment that seems to shield it from becoming devalued. With industries increasingly focusing on the practical aspect rather than the formal qualification, the worth of the degree is dwindling. This step then raises some critical questions: Is higher education, more particularly the university, becoming irrelevant? Can it continue to prepare students for the future



workforce? This report will try to address these issues and determine if long-term sustainability in the conventional university model can be feasible.

Research Gap

Today with the fast pace world, whether a university education really is worth it has come into question. Tuition fees are sky high, student debt is heavy and the job market in on of toughest period experienced for a long time which means that many feel today's college degrees could not be worth it. Because we tend to believe that alternative ways of getting an education, such as online certifications and vocational training, are quicker and cheaper. The job market is also changing due to automation and AI, a fact that has increasingly called the value of traditional University degrees into question. This report will examine these problems to see if Universities continue to be timely and relevant and also help boost the workforce forthe future.

III. Result Analysis

1. Increasing Need to Apply Skills

Well, the demands of university graduates have greatly changed in the past few years. There was a shift from just thinking on paper to practical skills coupled with experience in the field itself. Most employers point out that graduate students should have acquired practical skills and experience, even internships while they are still in the universities. All this is true simply because, in this overly competitive job market today, mere book knowledge is not enough. Transitions of students from academic environments to professional ones become difficult for graduates mainly because they lack practical work experience. Such exposures are best provided by opportunities like internships, cooperative education programs, and project-based assignments, which students appreciate the most since they expose students to real-life situations under which they can use their learned competencies.

The increasing general differences between the training expected at universities and those expected at workplaces fundamentally challenge the universities as they increasingly need to reposition their curricula. The graduate trainees will be greatly unprepared for the realities of their jobs, from which deep concern comes from potential employers that newly hired candidates are not ready. This gap must be filled by a more integrated education model wherein the strands of practical skills and theoretical knowledge are treated as parallel strands. Apart from this, universities can make a very critical and vital difference in enhancing the employability of graduates by making experiential learning part of their programs. This emphasis on hands-on training is not just a response to the market but forms a strategic necessity in keeping university education relevant and worth in a scenario wherein both jobs and workplaces change constantly.

2. New Models of Education are Taking Shape

Alternative routes, such as boot camps or getting certified online, have totally changed the game whereby value is being challenged to that given by the



traditional university degree. These alternative models bring specialisms in training and skill-building within a much shorter period. These then become popular among people who would not want to commit to four years of a regular degree program. However, they have many shortcomings over them because they do not provide the kind of experience that university education provides. Traditional degrees range in disciplines and arm students with critical thinking, creative, and analytical skills, among which are qualities necessary for the varied employment contexts of the day. Thus, while there may be a contention that non-traditional education supplements the more established university learning, there do exist questions related to whether, in fact, non-traditional education could really replace the intensity of education through a traditional degree.

There appears to grow the belief that it is actually the employers who consider certain skills more valuable than their formal degree in sectors where technology changes rapidly. The competitive nature of the field makes it extremely difficult for alternative education routes to challenge this traditional value placed on education in universities. Hence, the need for universities to adapt and innovate in such sectors has become inevitable. One of the best ways through which higher education institutions can educate students better in confronting the dynamics of the workplace is by embracing a model of both traditional and non-traditional learning opportunities. This interdisciplinary approach not only adds a lot of value to university education but also equips graduates with a broad range of skills that can be applied in different professional settings.

3. Bridging the Gap of Soft Skills

Newer surveys also reveal a very wide gulf of important soft skills among graduating university students. Many hiring managers complain that new recruits are frequently found incompetent to manage their time, be organized, and communicate effectively. It is therefore also a lapse that what is taught in the academics comes short of what is needed at the workplace. Undergraduates may not enjoy the independence or personal responsibility that will characterise their professional lives. The lack of preparation may lead to challenges in terms of handling complicated tasks and duties in the workplace. This, in turn, is common in most workplaces. Thus, employers, most of the time, require not just knowledge in a certain field but also soft skills that help students manage situations within complicated settings.

Idea presentation and professional discussion also has become more important in today's world where most workplaces characterize collaborative work environments. Most academic programs fail to more appropriately incorporate these communication skills, leaving graduates unprepared for interpersonal job requirements in most cases. Bridge this soft skill gap by requiring that universities incorporate effective training and opportunities for personal growth as part of the curriculum, such as workshops, group projects, or speaking exercises to a public audience. The university can better prepare its graduates to meet the needs of modern employers and, in general, increase their value in the job market by developing both academic knowledge and crucial interpersonal skills.



4. The Double Impact of Technology on Education

The impact of technology on the school scene has been immense, and so it has fed into the discussion over the change of value of university degrees. On the other hand, the worth of the university experience has gone up with technology since it brought in innovative learning tools as well as online platforms that open the education field to accessibility and engagement. Digital resources provide for a huge variety of learning methods, or even vary in accordance with diverse learning styles and needs. So, at a time when technology is continually evolving, universities must embrace it in order to facilitate richer educational experiences that prepare their students more effectively for changes in the job market. Implementing technology-based curricula in universities enhances the quality of education imparted and equips graduates with the right set of skills to compete in a technology-driven arena.

However, this development also means that more and more people have started asking whether one really needs a traditional university degree or not by adopting the alternative delivery platforms for education. Courses and certifications can be accessed for free or at a very low price; therefore, one would be able to get skills without necessarily using the open system of education. That is where universities have to continue proving why their offers are not the same and why access one's offering is necessary. In an effort to stay relevant, higher learning institutions need to adopt technology to enhance their learning processes and modernize their curricula to fit the modern working requirements. This will enable universities to claim back the value while embracing the fruits technological advancement offers for graduates to remain competitive in this increasingly complex job market.

5. Networking and Personal Development

Most of the university education, although highly important, carries relatively more academical and practice applications. Some vital importance for taking account are in networking and personal development. Contacts are made in various ways at university; huge open doors are created in and for mentorship, collaboration, and job potentialities while carving a career path. The universities are a place that will help the student encounter his peers, professors, and industry professionals hence making this wide spread support system which can be even after the completion of graduation. This networking aspect is welcomed both by students and companies as well as the relations created over campus will be the first leads in the searching of career development or working areas.

All this personal development that unfolds in a university setting adds up to preparing a well-rounded individual. Involvements in co-curricular and social activities invest skills in leadership, teamwork, and a host of interpersonal skills which quickly become in evidence within group settings at work. As the pressure to evaluate the value added through higher education escalates and builds, universities still must produce an environment that supports academic excellence with personal and professional development. This way, paying attention to all of these factors, universities are capable of turning out graduates not only well armed with the



understanding of subject matter but also possessing appropriate skills and contacts for making a difference in the dynamic workforce. This holistic approach not only reiterates the time-tested value of higher education but also explains that professional terrain undergoes changing dynamics.

Discussion on Result

Such a result gives a fair indication of the mighty test or challenge and opportunity universities face regarding the adaptation of curricula to serve changing market demands in terms of job. There is an apparent shift of employers away from concentrating more attention on practical competence and real life experience. Several hiring managers consider the graduates incapable of mastering these core soft competencies: time management, proper communication, and teamwork. This gap highlights the imperative for educational institutes to focus on these competencies in conjunction with academic knowledge. Incorporating opportunities for experiential learning via internships, collaboration-based work, and other activities will enhance the ability of universities to ensure that their students are well-positioned for the professional worlds that they are entering. The findings therefore call for a more balanced education model; one which teaches theory but also produces graduates who are prepared to operate practically in varied work environments.

With alternative educational models-emerging, for example, like boot camps and online certifications-traditional university education faces a challenge but also an opportunity. The alternative paths, even though quick and efficient at delivering particular skills, still do not equal a holistic experience that universities provide. With time, education technology is undergoing so many changes that universities must adopt innovation and rethink the curricula for them to be relevant in a competitive environment. Among the other important roles that networking and personal development play in the university experience are those of mentoring and professional development. In laying the groundwork for wholistic approaches into institutions of higher education that balance academic acuity with personal growth and development, colleges and universities can better help their students prepare to meet the dynamic requirements of today's workforce.

Unexpected Findings

It was surprising, the number of different observations for perceived worth of university education in today's job market. A key revelation is the extent to which employers prefer practice experience over formal academic credentials, hence challenging a long-time notion that having a university degree would make one employable. Many hiring managers pointed out that candidates who have, at the very least, hands-on experience were preferred-coming from alternative university backgrounds or not. This is again an indication of how skills might be looked at differently in the hiring process and today. It was also surprising that most graduates felt ill-equipped in softer skills such as communication and teaming, despite having been trained academically for this. A gaping hole would thus mean a considerable gap in universities' preparation of them for the workforce. Moreover, new alternative education paradigms have inevitably made a number of employers wonder whether a



traditional degree was truly necessary anymore. The findings, therefore, indicate a sea change in the educational landscape, forcing universities to rethink their pedagogies and curricula as well if they were to continue to be relevant and value-driven for the new job world.

Scope for Further Research

Results of this study open further avenues for research on shifting scenarios in university education and their related value in labor market. Among the areas that could offer some of those potential opportunities for further studies would be effectiveness studies on inclusion of practical experience in curricula such as internships and cooperative education and their impacts on the employability and the soft skills of graduates. It would be interesting to see the long-term professional development paths of graduates who took more 'traditionally' or 'alternatively' oriented education paths and how these influences have shaped their professional life and adaptability. A further important research line could be the evaluation of employer perceptions of the value of a university degree in comparison with other qualifications in changed environments. Analysis of the role technology plays in improving delivery and outcomes in education can thus help universities to better prepare their graduates for future life, while the analysis of higher education and career of developing nations can also provide insights as to how contemporary patterns of higher education and careers in developing countries can effectively fit into the global knowledge economy. Such research directions as discussed above can therefore merge to bring better understanding of a current paradigm in education and inform tactics for relevance and effectiveness of university education.

IV. Conclusion

Finally, in conclusion, analyzing this transformation landscape of higher education reveals that the value of a university degree is increasingly attacked from the standpoint of changing demands for the job market. Their expectations of what and how new graduates must be able and deliver shift skills and real-world experience that contradict old perceptions about academic credentials. This significant gap in soft skills among graduates shows that universities need to enhance their curricula by including experience-based learning opportunities and essential interpersonal skill-building abilities. In addition, alternative education patterns suggest that traditional universities must change to survive and effectively employ technology as well as innovative teaching styles to improve the quality of learning. Above all, there must be an effort to meld rigor with practicality and development as graduates are expected to live and work in a modern workplace. In this scenario, universities have an opportunity to reassert their critical role in developing a competent workforce that is knowledgeable but also capable and responsive.

References

1. Arum, R.; Roksa, J.: *Academically Adrift: Limited Learning on College Campuses*: University of Chicago Press: 2011.



2. Vedder, R.; Denhart, C.; Robe, J.: Why Are Recent College Graduates Underemployed? University Enrollments and Labor-Market Realities: Center for College Affordability and Productivity: 2013.
3. Avery, C.; Turner, S.: Student Loans: Do College Students Borrow Too Much--Or Not Enough?: The Journal of Economic Perspectives: 2012.
4. Dynarski, S.: An Economist's Perspective on Student Loans in the United States: Economic Studies at Brookings: 2014.
5. Carnevale, A. P.; Rose, S. J.; Hanson, A. R.: Certificates: Gateway to Gainful Employment and College Degrees: Georgetown University Center on Education and the Workforce: 2012.
6. Deming, D. J.; Noray, K.: Earnings Dynamics, Changing Job Skills, and STEM Careers: The Quarterly Journal of Economics: 2020.
7. Cappelli, P.: Skill Gaps, Skill Shortages, and Skill Mismatches: Evidence and Arguments for the United States: ILR Review: 2015.
8. Bughin, J.; Hazan, E.; Lund, S.; Dahlström, P.; Wiesinger, A.; Subramaniam, A.: Skill Shift: Automation and the Future of the Workforce: McKinsey Global Institute: 2018.
9. Brynjolfsson, E.; McAfee, A.: The Second Machine Age: Work, Progress, and Prosperity in a Time of Brilliant Technologies: W.W. Norton & Company: 2014.
10. Frey, C. B.; Osborne, M. A.: The Future of Employment: How Susceptible Are Jobs to Computerization?: Technological Forecasting and Social Change: 2017.
11. Barkas, L. A.; Scott, J. M.; Poppitt, N. J.; Smith, P. J.: Tinker, Tailor, Policy-Maker: Can the UK Government's Teaching Excellence Framework Deliver Its Objectives?: Journal of Further and Higher Education: 2019.
12. Barnett, R.: The Ecological University: A Feasible Utopia: Routledge: 2017.
13. Blackmore, P.: Prestige in Academic Life: Excellence and Exclusion: Routledge: 2016.
14. Brennan, J.; Durazzi, N.; Tanguy, S.: Things We Know and Don't Know About the Wider Benefits of Higher Education: A Review of the Recent Literature: DBIS: 2013.
15. Brennan, J.; Edmunds, R.; Houston, M.; Jary, D.; Lebeau, Y.; Osborne, M.; Richardson, J. T. E.: Improving What Is Learned at University: An Exploration of the Social and Organisational Diversity of University Education: Routledge: 2010.
16. Brown, R.; Carasso, H.: Everything for Sale: The Marketization of UK Higher Education: Routledge: 2013.
17. Carney, M.: The Reith Lectures: From Moral to Market Sentiments: BBC: 2020.
18. Chan, R.: Understanding the Purpose of Higher Education: An Analysis of the Economic and Social Benefits of Higher Education: Journal of Education, Planning and Policy: 2016.
19. Clarke, M.: Rethinking Graduate Employability: The Role of Capital, Individual Attributes and Context: Studies in Higher Education: 2018.
20. Deem, R.; Baird, J. A.: The English Teaching Excellence Framework: Intelligent Accountability in Higher Education?: Journal of Educational Change: 2020.
21. Department for Business, Innovation and Skills: Success as a Knowledge Economy: Teaching Excellence, Social Mobility and Student Choice: HMSO: 2016.
22. Dewey, J.: Education and Experience: Chicago University Press: 1939.



23. Dollinger, M.; Lodge, J.: *Understanding Value in the Student Experience Through Staff-Student Partnerships: Higher Education Research & Development: 2020.*
24. Downs, Y.: *Further Alternative Cultures of Valuation in Higher Education Research: Cambridge Journal of Education: 2017.*
25. East, L.; Stokes, R.; Walker, M.: *Universities, the Public Good and Professional Education in the UK: Studies in Higher Education: 2014.*
26. Fligstein, N.: *Social Skill and Theory of Field: Sociological Theory: 2001.*
27. *Future Track Survey: Transitions into Employment, Further Study and Other Outcomes: The Future Track Stage Report 4: Warwick Institute for Employment Research: 2012.*
28. Gibbs, P.: *The Three Goods of Higher Education; As Education, in Its Educative and in Its Institutional Practices: Oxford Review of Education: 2019.*
29. Granovetter, M.: *Economic Action and Social Structure: The Problem of Embeddedness: American Journal of Sociology: 1985.*
30. Handley, K.: *Anticipatory Socialization and the Construction of the Employable Graduate: A Critical Analysis of Employers' Graduate Careers Websites: Work, Employment and Society: 2018.*
31. Hunt, W.; Atfield, G.: *The Wider (Non-Market) Benefits of Post-18 Education for Individuals and Society: DFE: 2019.*
32. *Institute for Fiscal Studies: The Impact of Undergraduate Degrees on Lifetime Earnings: Department for Education: 2020.*
33. Jackson, D.; Tomlinson, M.: *Career Values and Proactive Career Behaviours Among Contemporary Higher Education Students: Journal of Education and Work: 2019.*
34. Lin, N.: *Social Capital: Theory and Research: New Brunswick: Transaction: 2001.*
35. Marginson, S.: *Student Self-Formation and International Education: Journal of Studies in International Education: 2014.*
36. Martin, R.: *The Financialization of Daily Life: Temple University Press: 2002.*
37. McClean, M.; Walker, M.: *The Possibilities for University-Based Public Good Professional Education: A Case-Study from South Africa Based on the 'Capability Approach: Studies in Higher Education: 2012.*
38. McMahon, W. W.: *Higher Learning, Greater Good: The Private and Social Benefits of Higher Education: John Hopkins University Press: 2009.*
39. Novavokic, Y.: *Researching Longstanding Graduates: Towards an Enriched Concept of the Value of Higher Education: Cambridge Journal of Education: 2019.*
40. Pascarella, E. T.; Terenzini, P. T.: *How College Affects Students: A Third Decade of Research: Jossey-Bass: 2005.*
41. Quigley, N. R.; Tymon, W. G., Jr.: *Toward an Integrated Model of Intrinsic Motivation and Career Self-Management: Career Development International: 2006.*
42. Ramsden, P.: *Improving Teaching and Learning in Higher Education: The Case for a Relational Perspective: Studies in Higher Education: 1987.*
43. Rivera, L.: *Hiring as Cultural Matching: The Case of Elite Professional Service Firms: American Sociological Review: 2012.*
44. Sen, A.: *Rationality and Social Choice: The American Economic Review: 1995.*



45. Sen, A. K.: Well-Being, Agency and Freedom: The Dewey Lectures: *Journal of Philosophy*: 1985. <https://doi.org/10.2307/2026184>
46. Sen, A. K.: *Development as Freedom*: Oxford University Press: 1999.
47. Shattock, M.: *Better Informing the Market? The Teaching Excellence Framework (TEF) in British Higher Education*: *International Higher Education*: 2018.
48. Stanford, J.: *Work After COVID Building a Stronger, Healthier Labour Market*: *Public Policy Forum*: 2020.
49. Tomlinson, M.: *Exploring the Impact of Policy Changes on Student Attitudes and Approaches to Learning in Higher Education*: *Higher Education Academy*: 2014.
50. Bourdieu, P.: *The Forms of Capital*: In *Handbook of Theory and Research for the Sociology of Education*. Greenwood: 1986.
51. Becker, G. S.: *Human Capital: A Theoretical and Empirical Analysis*, with Special Reference to Education: University of Chicago Press: 1993.
52. Carnevale, A. P.; Smith, N.: *Balancing Skills and Employment: The Future of the U.S. Workforce*: Georgetown University Center on Education and the Workforce: 2017.
53. Holzer, H. J.; Litarowsky, A.; Rudd, T.: *The Future of Work: A Journey to 2040*: Economic Mobility Corporation: 2020.
54. Jones, E.; de Weert, E.: *The Role of Higher Education in Society: Equity and Social Cohesion*: *Education International*: 2015.
55. Kuh, G. D.; Kinzie, J.; Buckley, J. A.; Bridges, B.; Hayek, J. C.: *What Matters to Student Success: A Review of the Literature*: National Postsecondary Education Cooperative: 2006.
56. Marginson, S.; Toohey, S.; Lomer, S.: *National and Global Competition in Higher Education*: *Journal of Studies in International Education*: 2010.
57. Mourshed, M.; Farrell, D.; Barton, D.: *Education to Employment: Designing a System that Works*: McKinsey & Company: 2013.
58. Perkins, R.; Neumayer, E.: *Geographies of Educational Mobilities: Exploring the Uneven flows of International Students: Theorizing Educational Mobilities*: 2014.
59. Rea, A. D.; Weidner, A.; Kloss, M.; Heller, P.: *The Role of Universities in Fostering Inclusive Economic Growth: Lessons from the University of Michigan*: *Economic Development Quarterly*: 2019.
60. Sabatier, P. A.; Weible, C. M.: *The Advocacy Coalition Framework: Innovations and Clarifications: In Theories of the Policy Process*: Westview Press: 2014.
61. Stiglitz, J. E.; Weiss, A.: *Credit Rationing in Markets with Imperfect Information*: *The American Economic Review*: 1981.
62. Trow, M.: *The Second Order of Change in Higher Education: In The Academic Profession: The Professoriate in a Changing Context*: 2007.
63. Wang, M. T.; Degol, J. L.: *Growth in Academic Achievement and Student Engagement in Middle School: A Longitudinal Study*: *Developmental Psychology*: 2013.
64. Woolcock, M.; Narayan, D.: *Social Capital: Implications for Development Theory, Research, and Policy*: *The World Bank Research Observer*: 2000.