

E-ISSN: 2582-2160 • Website: www.ijfmr.com • Email: editor@ijfmr.com

# **Determinants of Entrepreneurial Intention among Young Graduates of Northeast India**

# Sutapa Debbarma<sup>1</sup>, Jeetu Debbarma<sup>2</sup>, Dalia Debbarma<sup>3</sup>, Rushikesh Ulhas Khire<sup>4</sup>

<sup>1,2,3</sup>Assistant Professor, Electronics and Communication Engineering, Tripura Institute of Technology, Tripura, India.

<sup>4</sup>Assistant Professor, International College, Providence University, Taiwan.

#### **Abstract**

Entrepreneurship has an important role in economic developments of any country. Government of India launched start-up India campaign and opened start-up cells in educational institutions to provide facilitating condition and enhance skills to young graduatesfor starting a new business. However, the success of such policy is depending upon the entrepreneurial intention. Therefore, it is required to study the determinants of entrepreneurial intentions among the young graduates. The aim of the study is to understand the influence of determining factors on entrepreneurial intention among young graduates of northeast India. Questionnaire surveys of 114 samples of graduate students of northeast India were carried out. For data analysis Partial Least Squares (PLS) structural equation modelling was used for validity and reliability of the factors. Finding of this study will provide the clear understandingabout the behavioural intention to become an entrepreneur along with the factors that influencing the situation to start up new business.

**Keywords:** Entrepreneurial intentions, Perceived desirability, Self-efficacy, Entrepreneurial intention, Entrepreneurial education and attitude.

#### 1. Introduction:

Start-up firm/Entrepreneurial firms plays important role in developing market economics, innovation and productivity of the country and provide job opportunities to unemployed man, women, minorities and immigrants (Khoury and Omran, 2012). With increased requirement of technological advancement and international competition entrepreneurship is regarded as a driving force of innovation (Lu"thje and Franke, 2003). Therefore, priority of policy makers is focusing towards the fostering of entrepreneurship (Khoury and Omran, 2012). Government of India also made various policies to encourage entrepreneurships such as Simplification of Licensing Procedure, Liberal Economic Policies, Establishment of Development Institutions, start-up India, Development of Women Entrepreneur, make in India etc. (Googlesir, 2019).

Idea to become an entrepreneur is attractive to students due to degree of independence they may get as a self-employed. However, to start a new business and become an entrepreneur requires behavioural intention to become an entrepreneur that is related to the desirability and feasibility of the conditions such as policies, previous experience, self-efficacy etc. These factors play important role in entrepreneurial intention (Leung et al., 2012). Therefore, this study focusses on the underlying factors that may impact behavioural intention to start a new business among the students. To find out the



E-ISSN: 2582-2160 • Website: www.ijfmr.com • Email: editor@ijfmr.com

factors, this study will use 'Entrepreneurial Event' model proposed by Shapero and Sokol's (1982) implicitly an intention model that, specific to the domain of entrepreneurship (Krueger et al., 2000) and Liñán's Entrepreneurial Intention Model (Liñán, 2004). Finding of this study will help policymakers and researchers to work on the necessities that can boost the intention to become an entrepreneur among young graduates of northeast India.

Research objective of this study is to propose a theoretical framework for assessment of students' entrepreneurial intention.

#### 2. Theoretical Background

#### 2.1. "Entrepreneurial Event" model

Entrepreneurial Event defines the behaviour of entrepreneur in certain situations compared to other individuals. Entrepreneurs has five characteristics namely initiative talking, consolidation of resources, management of the organisation, relative autonomy and risk taking. According to Shapero and Sokol (1982) entrepreneurial behavioural intention depends on the relative 'credibility' that is influenced by personal desirability and feasibility (Krueger et al., 2000). Another factor that influences the intention is 'Propensity to act', which measures the control over life event or achievement related behaviour (Burger, 1979).

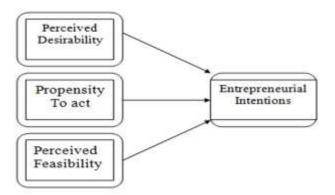


Fig 1: Entrepreneurial Event (Source: Shapero and Sokol (1982))

### 2.2 Entrepreneurial Intention Model

Intention models anticipate that outside variables (demographic or heritage characteristics) have no effect on the purpose of performing a given behaviour (Ajzen, 1991; Liñán, 2004). Liñán's entrepreneurial intention model identifies the antecedents that influences the intention are entrepreneurial knowledge, perceived desirability (personal attitudes and social norms) and perceived feasibility (self-efficacy) (Liñán, 2004).

#### 2.3Entrepreneurial intentions

The term entrepreneurial intention defines the intention to start new business (Krueger et al., 2000). Intention toward a purposeful behaviour specifically entrepreneurial intention is very important because intentions can develop a key initial characteristic for set up a new business (Krueger, 1993). Many studies previously focused to study entrepreneurial intentions as listed in the Table 1.



E-ISSN: 2582-2160 • Website: www.ijfmr.com • Email: editor@ijfmr.com

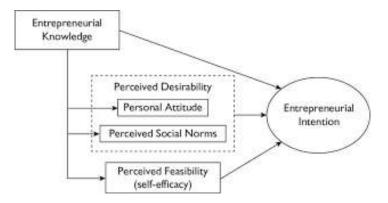


Fig: Linen's Entrepreneurial Intention Model.

Table 1: previous research on entrepreneurial intention

Sl	Context	Method	Reference
no.			
1	Proposing integrated model to	Integrated model. 324 Russian	Iakovleva and
	find entrepreneurial intention	university business students.	Kolvereid, 2009
	among Russian university	Questionnaire survey	
	business students		
2	Impact attitude towards self-	Integrate both, individual traits and	Lu"thje and
	employment of engineering	contextual factors into a structural	Franke, 2003
	students in MIT	model of entrepreneurial intent. 512	
		students at the MIT School of	
		Engineering, Questionnaire survey.	
3	Entrepreneurial intention (EI)	Theory of planned behaviour, 202	Marques et al.,
	and the factors preceding the	students sample of secondary	2012
	founding of EI among	students, both studying general	
	secondary students	academic and specific professional	
		programs, Questionnaire survey.	
4	Factors that influence the	Integrated model of TPB and SEE,	Leung et al., 2012
	intention of engineering	1	
	students to participate in	Hong-king University.	
	entrepreneurial activities	Questionnaire survey	7.17.4
5	Role of education in	SEE model, 354 final-year	Liñán, 2004
	entrepreneurial intention.	undergraduate students from	
		Business and Economic Sciences,	
	Enteres and a 1 Calc Dec	Questionnaire survey.	D:1-:- 2000
6	Entrepreneurial Self-Efficacy	Factors from TPB and SEE. 1,554	Pihie, 2009
	and Intention of University Students	university students from three research universities in Malaysia.	
	Students	•	
7	Impact of Gender,	Questionnaire survey 5,000 middle/high school students	Wilson et al.,
/	Entrepreneurial Self-Efficacy	in four geographic states or regions	2007
	on Entrepreneurial Career	(New England, Illinois, California,	2007
	on Entrepreneural Career	(Trew England, Infilois, Camolilla,	



E-ISSN: 2582-2160 • Website: www.ijfmr.com • Email: editor@ijfmr.com

	Intentions:	and Texas/Florida/ Tennessee).
		Questionnaire survey
8	Role of entrepreneurship	Model comprising Relationship Elmuti et al.,
	education on developing	Between Entrepreneurship 2012
	entrepreneurial skills	Indicators and Ventures'
		Effectiveness. 170 samples from
		entrepreneurs and individuals from
		US. Questionnaire survey

### 3. Hypothesis Development

Perceived desirability is the degree of attraction one has for the prospect of starting a new business (Krueger et al., 1993). Previous study shows that intention is associated with perceived desirability (Krueger et al., 1993; Shapero and Sokol, 1982; Liñán, 2004). In line with previous researches we have perceived desirability in our research framework. Entrepreneurial education is the key element for developing entrepreneurial attitude and intention. Educational initiatives were considered as most potential to generate entrepreneurs. Education influences individual performance and can act as catalyst for the development of entrepreneurial intention (Potter 2008). Students' self-efficacy is the self assurance that they could successfully engage in entrepreneurial behaviour which stems from their abilities and skills (Hattab, 2014). Thus, entrepreneurship education is more likely to positively influence attitude and self-efficacy of any individuals that are required to become an entrepreneur. Further, attitude and self-efficacy will positively relate to the intention. Table 2 provides the definitions of factors that we are using in our proposed framework.

Table 2 The definitions of factors

Factors	Definitions	Citations
Perceived desirability	Perceived desirability is the degree to which	Krueger, 1993
	one finds the prospect of starting a business to	
	be attractive; in essence, it reflects one's affect	
	toward entrepreneurship	
Self -efficacy	Self-efficacy is a person's belief in his or her	Bandura, 1997
	capability to successfully perform a particular	
	task.	
Entrepreneurial education	It is the measure of education that an	Liñán, 2004
	individual expect toenhance entrepreneurship	
	skill set and environment	
Attitude	An attitude towards entrepreneurship is an	Lu"thje and
	individual perception on working as the	Franke, 2003
	owner of a business	
Entrepreneurial intention	Intention to become an entrepreneur.	Krueger, 1993;
	Entrepreneurial Intention establish key initial	Iakovleva and
	characteristics for new organizations	Kolvereid, 2009



E-ISSN: 2582-2160 • Website: www.ijfmr.com • Email: editor@ijfmr.com

Based on the discussions we can hypothesis that:

H1: Entrepreneurial education will positively relate to perceived desirability.

H2: Entrepreneurial education will positively relate to attitude.

H3: Entrepreneurial education will positively relate to self-efficacy.

H4: Perceived desirability will positively related to Entrepreneurial intention.

H5: Attitude will positively relate to Entrepreneurial intention.

H6: Self-efficacy will positively relate to Entrepreneurial intention.

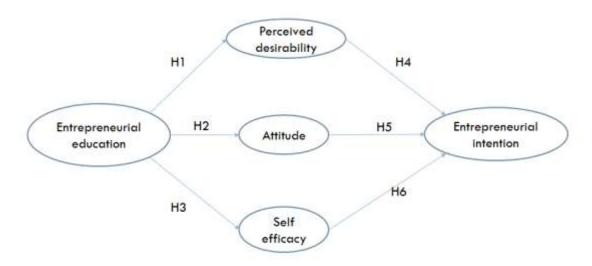


Fig 2: Proposed framework

### 4. Methodology

In this research, online questionnaire-based survey method was used. A questionnaire with 21 items (appendix I) comprising six dimensions: Self-efficacy, perceived desirability, entrepreneurial education, entrepreneurial attitude and entrepreneurial intentions were constructed. Items of each construct must describe the concept in order to generalize the findings. Thus, in this study, development of items for measuring the constructs are adopted and modified in the research context from previous researches conducted by Krueger, 1993; Burger, 1979; Anitsal, 2012; Lu thje and Franke, 2003; Iakovleva and Kolvereid, 2009. In the present study, data were collected through questionnaire survey. Samples were targeted graduate students from Northeast part of India. A brief description of the study was explained in the questionnaire to make it understandable to the respondent about the research context. Questionnaires were distributed online through google form and the respondents were instructed to indicate their level of agreement with the statements in the item using a five-point Likert-type scale. Altogether, 114 valid responses were collected and used for analysis.

#### 5. Analysis And Results

In this study we used SmartPLS 2.0.M3 for the data and structural path analysis. Partial least squares (PLS) is a powerful method of analysis because of the minimal demands on measurement scales, sample size, and residual distributions. The literature supports that the minimum sample size for PLS should be larger than 10 times the largest number of structural paths directed at a particular construct in the inner



E-ISSN: 2582-2160 • Website: www.ijfmr.com • Email: editor@ijfmr.com

path model (Chin, 1997; Khire et al, 2016). In this proposed research model, structural paths directed at a particular construct in the inner path model is six, whereby, "intention to use" with 3 paths has the largest number of structural paths. Thus, sample size 114 satisfies the minimum requirements. Analysis of data is done in two steps, confirmatory factor analysis (CFA) and structural modelling. CFA analysis represents the reliability and validity of the constructs. Convergent validity can be confirmed by testing item loadings, composite reliability, and AVE (Khire et al, 2016). Composite reliability (CR) of the items should be above 0.7 (Fornell and Larcker 1981); average variance extracted should be above 0.5 (Hair et al, 2010); the square root of AVE should be higher than the inter-construct co-relations (Fornell and Larcker 1981; Khire et al, 2016). Individual item standardized loading should be above 0.5 (Hair et al, 2010) and significant p-value of loading is P<0.05 (Gefen and Straub, 2005). In this research model, all the used constructs have higher than the required values of factor loading with significant p-value, CR, AVE and square root of AVE, which confirms the convergent and discriminant validity. All the results of our analysis are satisfying the criteria. **Table 3** shows the reliability and validity of the constructs. **Table 4** shows correlation of constructs. **Table 5** shows loadings and t-value of the items.

Table 3: Reliability and validity of constructs

Constructs	AVE	CR	$\sqrt{\text{AVE}}$
ATT	0.7547	0.902	0.868735
EI	0.8036	0.9424	0.896437
EE	0.7535	0.9483	0.868044
PD	0.6751	0.8925	0.821645
SE	0.7468	0.9217	0.864176

Abbreviations: CR = composite reliability; AVE = average variance extracted (also in parentheses). ATT= Attitude; EI= Entrepreneurial intention; EE= entrepreneurial education; PD= perceived desirability; SE= Self-efficacy.

Table 4: Shows correlation of constructs

	ATT	EI	ET	PD	SE
ATT	1	0	0	0	0
EI	0.6289	1	0	0	0
EE	0.8377	0.6615	1	0	0
PD	0.6995	0.7701	0.6463	1	0
SE	0.7095	0.5704	0.7291	0.56	1

Table 5: Loadings and t-value of the items

	Item	
Items	loadings	t-value
ATT1	0.863	9.3823
ATT2	0.8158	10.8432
ATT3	0.9241	15.4459



E-ISSN: 2582-2160 • Website: www.ijfmr.com • Email: editor@ijfmr.com

EE1	0.911	15.4437
EE2	0.8809	16.2184
EE3	0.8571	15.3848
EE4	0.8335	13.9606
EE5	0.8837	15.3439
EE6	0.8397	11.3596
EI1	0.8735	15.8978
EI2	0.907	16.3844
EI3	0.9243	19.5221
EI4	0.8802	15.9733
PD1	0.8517	11.321
PD2	0.8318	13.4394
PD3	0.8191	10.0901
PD4	0.7825	9.9877
SE1	0.8302	11.4094
SE2	0.8117	9.2966
SE3	0.9122	16.3941
SE4	0.8983	16.8398

Table 6: Hypothesis testing results

	Path coefficient	T -value	P -value	result
Attitude -> Entrepreneurial intention	0.1954 ~ 0.2	1.7197	P<0.05	Significant
Entrepreneurial education -> Attitude	0.6730	8.3343	P<0.001	Significant
Entrepreneurial education - > Perceived desirability	0.6606	8.1694	P<0.001	Significant
Entrepreneurial education -> Self Efficacy	0.6984	8.3560	P<0.001	Significant
Perceived desirability -> Entrepreneurial intention	0.3380	2.1721	P<0.05	Significant
Self- Efficacy -> Entrepreneurial intention	0.3826	3.5524	P<0.05	Significant

All the hypotheses in the table 6 are significant with p-value <0.001, path coefficients are as per the required values suggested by Hair et al, (2010), i.e., 0.20 is acceptable, whereas, 0.30 is ideal.

### 6. Implication

This study successfully tested proposed model that were developed by referring "Entrepreneurial Event" model proposed by Shapero and Sokol's (1982) and Liñán's (2004) "Entrepreneurial Intention Model". Results show that entrepreneurial education is playing vital role for developing intentions.



E-ISSN: 2582-2160 • Website: www.ijfmr.com • Email: editor@ijfmr.com

Entrepreneurial education is influencing positively to attitude, self-efficacy and perceived desirability. Further attitude and self-efficacy are positively influencing intention, which is in line with the Liñán's (2004) and perceived desirability is positively influencing intention, which is in line with the Liñán's (2004) and Shapero and Sokol's (1982). Therefore, efforts must be taken to enhance those abilities among graduate students. Institutions and Policy maker should design a curriculum and events that can provide entrepreneurial environment through various events and awareness programs by giving the opportunity to interact with the role models. Also effort should be taken for built up the attitude and desirability of young graduates.

#### 7. Limitation and future work

There are a few research limitations of this study. This study was conducted in the northeast India, Tripura with 114 samples which can vary different part of the country. Future research may conduct in different other areas of the country also with large number of samples may vary the results. Also, the proposed research model only considers only one independent variable i.e. entrepreneurial education. Future research may consider variables and moderating effects of gender or other variables.

#### References

- 1. Ajzen, I., "The theory of planned behaviour", Organizational behavior and human decision processes, 1991, 50(2), 179-211.
- 2. Bandura, A.. Self-efficacy: The exercise of control. New York, NY: Freeman.
- 3. Burger, J.M. and Cooper, H.M., "The desirability of control", Motivation and emotion, 1997, 3(4), 381-393.
- 4. Chin, W.W., Gopal, A. and Salisbury, W.D., "Advancing the theory of adaptive structuration: The development of a scale to measure faithfulness of appropriation", Information systems research, 1997, 8(4), 342-367.
- 5. Elmuti, D., Khoury, G. and Omran, O., "Does entrepreneurship education have a role in developing entrepreneurial skills and ventures'effectiveness?" Journal of Entrepreneurship Education, 2012,15, 83.
- 6. Fornell, C. and Larcker, D.F., "Structural equation models with unobservable variables and measurement error: Algebra and statistics", 1981.
- 7. Gefen, D. and Straub, D., "A practical guide to factorial validity using PLS-Graph: Tutorial and annotated example", Communications of the Association for Information systems, 2005,16(1), 5.
- 8. Googlesir, "27 Steps Taken for Development of Entrepreneurship in India", 2019. Retrived from: https://www.googlesir.com/steps-taken-for-development-of-entrepreneurship-in-india/
- 9. Hair, J.F., Ortinau, D.J. and Harrison, D.E., "Essentials of marketing research" New York, NY: McGraw-Hill/Irwin, 2010, (Vol. 2).
- 10. Hattab, H.W., "Impact of entrepreneurship education on entrepreneurial intentions of university students in Egypt", The Journal of Entrepreneurship, 2014, 23(1), 1-18.
- 11. Iakovleva, T. and Kolvereid, L., "An integrated model of entrepreneurial intentions", International Journal of Business and Globalisation, 2009, 3(1), 66.



E-ISSN: 2582-2160 • Website: www.ijfmr.com • Email: editor@ijfmr.com

- 12. Khoury, G., Elmuti, D., & Omran, O. "Does entrepreneurship education have a role in developing entrepreneurial skills and ventures' effectiveness?" Journal of Entrepreneurship Education Publisher, 2012, 15, 83.
- 13. Krueger Jr, N.F., Reilly, M.D. and Carsrud, A.L., "Competing models of entrepreneurial intentions", Journal of business venturing, 2000, 15(5-6), 411-432.
- 14. Krueger, N., "The impact of prior entrepreneurial exposure on perceptions of new venture feasibility and desirability", Entrepreneurship theory and practice, 1993, 18(1), pp.5-21.
- 15. Leung, K. Y., Lo, C. T., Sun, H., & Wong, K. F., "Factors influencing engineering students' intention to participate in on-campus entrepreneurial activities", Journal of Entrepreneurship Education, 2012, 15, 1.
- 16. Liñán, F., "Intention-based models of entrepreneurship education", Piccolla Impresa/Small Business, 2004, 3(1), 11-35.
- 17. Lüthje, C., & Franke, N., "The 'making' of an entrepreneur: testing a model of entrepreneurial intent among engineering students at MIT", R&d Management, 2003, 33(2), 135-147.
- 18. Marques, C.S., Ferreira, J.J., Gomes, D.N. and Rodrigues, R.G., "Entrepreneurship education: How psychological, demographic and behavioural factors predict the entrepreneurial intention", Education+ training, 2012, 54.8/9, 657-672.
- 19. Pihie, Z.A.L. and Akmaliah, Z., "Entrepreneurship as a career choice: An analysis of entrepreneurial self-efficacy and intention of university students", European journal of social sciences, 2009, 9(2), 338-349.
- 20. Potter, J., "Entrepreneurship and Higher Education: Future Policy Directions", in Potter, J. (ed.), Entrepreneurship and Higher Education, OECD Publishing, Paris, 2008.
- 21. Shapero, A. and Sokol, L., "The social dimensions of entrepreneurship", University of Illinois at Urbana-Champaign's Academy for Entrepreneurial Leadership Historical Research Reference in Entrepreneurship, 1982.
- 22. Ulhas, K.R., Lai, J.Y. and Wang, J., "Impacts of collaborative IS on software development project success in Indian software firms: a service perspective", Information Systems and e-Business Management, 2016, 14(2), 315-336.
- 23. Wilson, F., Kickul, J. and Marlino, D., "Gender, entrepreneurial self-efficacy, and entrepreneurial career intentions: Implications for entrepreneurship education", Entrepreneurship theory and practice, 2007, 31(3), 387-406.

### **Appendix I:**

Sl. No.	Constricts	Items
1.	Perceived Desirability	I would love to do business in future.
2.		I will be not much tensed to start new business.
3.		I would be very enthusiastic if I start my own business.
4.		I have stong desire to start my own business.



E-ISSN: 2582-2160 • Website: <a href="www.ijfmr.com">www.ijfmr.com</a> • Email: editor@ijfmr.com

	F	
5.	Entrepreneurial	I think I will start a business.
	intentions	
6.		My intention to start own business in the few
0.		years is more.
-		I heve plan to be self-employed in the
7.		foreseeable future after graduation.
		I often think of starting and running my own
8.		business
	Perceived Self-	ousiness .
9.	Efficacy	I am confident to solve my own problems
10	Efficacy	I di interiore
10.		I think I am very creative person.
11.		I have leadership quality
12.		I can make decisions
		'I'd rather be my own boss than have a secure
13.	Attitude	
		job
14.		We can only make big money if we are self-
		employed
15.		I'd rather start a new business than be the
13.		manager of an existing one
16.	Entrepreneurship	Entrepreneurial education should create
10.	education	entrepreneurial environment
		Entrepreneurial education should provide
17.		greater recognition of the entrepreneur's figure
		(Example of role models)
		-
18.		Entrepreneurial education should be capable to
		build up the preference to be an entrepreneur
10		Entrepreneurial education should enhance the
19.		necessary abilities to be an entrepreneur
		University curriculum should include
20.		entrepreneurship related subjects
		University curricular should include
21.		•
		Entrepreneur training programs