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## The City as Medusa, Grandma and Whore in Arundhati Roy's *The Ministry of Utmost Happiness*

**Dr Shyaonti Talwar**

Assistant Professor of English, RNC Arts, JDB Commerce & NSC Science College

Besides being a teacher of English Literature for students pursuing their BA and MA in English Literature, Shyaonti Talwar is a professionally qualified English Language Teacher, Trainer and Educator. She is associated with several organisations like Swayam, British Council, Cambridge Assessment English and Oxford University Press and universities in different capacities as a resource person, ELT consultant, subject expert, mentor, materials writer and curriculum planner. Dr Talwar's current areas of research interest include Gender Studies, Postcolonialism, Cultural Studies, Nationalism, Myths and Archetypes and ELLT.

### Abstract

The paper assesses the city of Delhi as it is perceived and depicted in *The Ministry of Utmost Happiness*, the second novel of Booker-prize winning author, political essayist and writer-activist Arundhati Roy and the ways in which it challenges a hegemonic perception of urban spaces and through these spaces, the perception of a developing nation in an age of neoliberal capitalism and globalization in the free market. The paper underscores the various metaphors, figurative allusions and the shifting personas the city acquires and the gendering and transitioning it undergoes at the hands of the author. Likewise, the paper attempts an understanding of the city as a many-layered, living, breathing entity with surprises and secrets, celebrations and heartbreaks, as much a character and as human with an intimate and intense subject status as any of the inmates inhabiting it. It looks at the city space as an empowering and enabling agency offering shelter, variety, anonymity and opportunity to those who seek it and the cityscape as frequently alienating, ruthless and indifferent, foregrounding the juxtaposition of these two sharply contrasting images and the symbolic significance of them.

### Keywords

city, identities, globalization, gender, development

The first chapter of Roy's second work of fiction which came after what can hardly be termed as an interim, of nearly 20 years is called 'Where do Old Birds go to Die?', the preoccupation with space, implicit in the very title of this chapter. The opening line of the novel goes thus: 'She lived in the graveyard like a tree'. Roy is known for her unconventional style, her radical stance and her 'in-your-face' writer's attitude. And yet this first line is more than the most unconventional and the most radical. The person is a 'she' and is compared to a tree. The graveyard is an in-between space where the being undergoes a transition, a space that symbolizes the overlapping of two worlds, the real and the unreal if one wishes to address it as such; a space people are aware of and yet do not want to frequent unless they absolutely have to. A space which people would often ignore as they walk past it and yet are utterly helpless when it comes to avoiding it for it is, if anything, everyone's final destination, a constant reminder of the being's finitude. But here's a human who makes the graveyard her home. 'She' refers to Anjum, the transgender in the novel who in many ways is the connecting link between the characters, and her house, the haven that the misfits and the castaways seek.

The reader's introduction to the space Anjum inhabits, is not through the city where she lives, but a particular space within that city: the graveyard. Is it because the city is too big, or too cramped, too well laid out or too messy that despite its many spaces, it seems to give up on her and fails to accommodate her as she moves from its underbelly to its extremities? The chapter describes Anjum the transgender's other-worldly and solitary life in the graveyard with a mention of the Khwabgah at the very end and it is only in the second chapter called 'Khwabgah', in the opening lines, that one comes to know that Anjum was born as Aftab in 'Shahjahanabad, the walled city of Delhi.' (7) - the phrase 'walled city' suggesting something like a barrier that engages in the dexterous task of spatial management of including and excluding people much like the nation state.

Delhi gets a mention in the subsequent paragraphs in the context of Hazrat Sarmad Shaheed's dargah where Anjum's mother goes to seek respite and solace. The *dargah* seems to be that space that does not give any answers to her predicament of having brought forth a *hijra* into the world; nonetheless it is an alternate space which seems to be more accommodating and less intimidating than the space within the four walls of her house as Aftab/Anjum's mother Jahanara Begum, walking past, 'the crowd – the sellers of ittar and amulets, the beggars, the homeless, the goats being fattened for slaughter on Eid and the knot of quiet elderly eunuchs under a tarpaulin inside the shrine - ...entered the tiny chamber...became calm' (11).

The dargah is symbolic and significant in its physical presence as it stands for the love of two men, again marginalized entities and would be a marginalized space in itself, had the facts been in conscious public memory and not taken over by lore:

Not all the visitors to Hazrat Sarmad Shaheed's dargah knew his story. Some knew parts of it, some none of it and some made up their own versions. Most knew he was a Jewish Armenian merchant who had travelled to Delhi from Persia in pursuit of the love of his life. Few knew the love of his life was Abhay Chand, a young Hindu boy he had met in Sindh. Most knew he had renounced Judaism and embraced Islam. Few knew his spiritual search led him to renounce orthodox Islam too. (9)

lined their high, narrow pavements, head to toe, head to toe, head to toe, looping in the distance. (96)

And this is also the exact juncture in the novel where the city transforms from the sleeping gorgon to a benign Grandmother who in turn is forced by those who claim ownership over her to transform into a wilting whore as Roy continues with her description:

Old secrets were folded into the furrows of her loose, parchment skin. Each wrinkle was a street, each street a carnival. Each arthritic joint a crumbling amphitheatre where stories of love and madness, stupidity, delight and unspeakable cruelty had been played out for centuries. But this was to be the dawn of her resurrection. Her new masters wanted to hide her knobby, varicose veins under imported fishnet stockings, cram her withered tits into saucy padded bras and jam her aching feet into pointed high-heeled shoes. They wanted her to swing her stiff-old hips and re-route the edges of her grimace upwards into a frozen, empty smile. It was the summer Grandma became a whore. (96)

Grandma has no alternative but to painfully and reluctantly metamorphose into a whore as she has a role to play in the whole neoliberalism and globalization charade every time a foreign delegation comes from the first world to visit this exotic city with its Mughal gardens and fountains. She cannot let India down, the newest and most desirable financial destination of the world even as her rulers get ready to put a price tag to her, double-crossing pimps who act surreptitiously for their own personal gains:

She was to become supercapital of the world's favourite new superpower. *India! India!* The chant had gone up – on TV shows, on music videos, in foreign newspapers and magazines, at business conferences and weapon fairs, economic conclaves and environmental summits, at book festivals and beauty contests. *India! Inida! India!* (96-97)

The lines have an almost incantatory feel to them indicating the intoxicating and delirious indulgence in this charade of middle class India largely because of its complacency and partly because of its indifference to the 'other' truths, the alternate realities and the people who continue to be invisibilised, neglected, deprived, disenfranchised and denied their rights as citizens. People have been conditioned into believing that all's well with the world and this is the way forward as 'Skyscrapers and steel factories sprang up where forests used to be, rivers were bottled and sold in supermarkets, fish were tinned, mountains mined and turned into shining missiles' (98).

Delhi cannot afford to look like Medusa. Medusa's unobliging and troublesome serpents cannot be defanged or severed so she needs to be walled out and kept out of bounds. Delhi needs to be propped up like a glam doll to attract dollar billionaires and foreign investors and paraded in borrowed clothes. The rags need to be hurriedly hidden, the stench driven away with a deluge of perfumes and roads readied, people swept under the carpet for the presentation to be perfect and that's how grand old ma turns into a whore. A whore who can conceal her overused, over-exploited body with its carefully hidden scars to fetch some big capital. The ones who offer her for a deal are happy with whatever they may be able to extract. Because after the visit the whore can go back to being a Grandma but there is resistance all around even as the effort is on, as villages are emptied and millions

of people forced to move to the fringes of the city and joblessness and homelessness lead to riots and resistance movements.

Roy's tone is dipped in sarcasm towards the fourth estate as she describes media coverage when she observes how, 'in the summer of her renewal, Grandma broke' (99):

Fiercely competitive TV channels covered the story of the breaking city as 'Breaking News'. Nobody pointed out the irony. They unleashed their untrained, but excellent-looking young reporters, who spread across the city like a rash, asking urgent, empty questions; they asked the poor what it was like to be poor, they asked the hungry what it was like to be hungry, the homeless what it was like to be homeless...The TV channels never ran out of sponsorship for their live telecasts of despair...Experts aired their expert opinion for a fee. *Somebody* has to pay the price for Progress, they said expertly. (99)

The fallout of free market economy and neoliberalism is conveyed through the metaphor of Delhi, the grand old city that undergoes a confused transformation and is finally caught between being a Grandma and a whore with indicators of urbanization and economic progress on the one hand and increasing immigration of the displaced that settle on the margins of the city on the other. The juxtaposition of the privileged and the invisibilised, the predicament of entitlement is poignantly described through powerful imagery as:

All day long the roads were choked with traffic. The newly dispossessed, who live in the cracks and fissures of the city, emerged and swarmed around the sleek, climate-controlled cars, selling cloth dusters, mobile phone chargers, model jumbo jets, business magazines, pirated management books (*How to Make your First Million, What Young India Really Wants*)...tiny national flags mounted on stands that said *Mera Bharat Mahan*, My India is Great. (100)

And then:

On the city's industrial outskirts, in the miles of bright swamp tightly compacted with refuse and colourful plastic bags, where the evicted had been 're-settled' the air was chemical and the water poisonous. Clouds of mosquitoes rose from thick, green ponds. Surplus mothers perched like sparrows on the debris of what used to be their homes and sang their surplus children to sleep. (100)

## Conclusion

Delhi's urban, bureaucratic, sophisticated space is steeped in artifice and flamboyance, protocol and niceties where emotions are stifled and relationships are a formality just like a nicely groomed, presentable and necessary escort, while the guesthouse in the graveyard thrives and burgeons, accommodating the living, the dead, the invisibilised, the outlawed and the marginalized, not just humans but animals too. Jantar Mantar on the other hand is that space which is like the lap of the grand old mother where every troubled child comes to seek solace; where people with trauma, activists with grievances and politicians with agendas can be accommodated and escape into an alternative universe, albeit for some time. Grandma allows babies to be birthed, abandoned, abducted and loved. Because the grand old dame knows best. The belligerent, the cynical, the petulant and the peevish, Grandma calls out to everyone. Grieving widows, traumatized

mothers, optimistic petitioners, agitated activists, opportunistic politicians, sidekicks, props, cheerleaders and janitors - all jostle for space and somehow fit in.

This, with the Medusa imagery is what sustains the city of Delhi and the lives that live precariously in it. The city allows anonymity and camaraderie to coexist through chaos and enables its inmates with their broken backs to fall and crawl in step with each other and give space to one another whenever they need it. This is more than evident in the number and range of people that Anjum hosts and accommodates in the graveyard guesthouse including Tilottama who in no way can be said to belong there as she belongs to an entirely different class, the class of the privileged, the entitled. And yet, Tilo crosses over to embrace the underbelly of Delhi because that is where life thrives, in a graveyard where the dead and the alive conglomerate and celebrate and the ‘about-to-die’, the likes of Musa can seek temporary refuge.

Perhaps through these enduring metaphors, Roy is alluding to the power of the city to sustain and support, despite everything, a deep humanity and liquid empathy which can be found only in its underbelly, the serpents of Medusa who nestle in Grandma’s lap when they crawl out of her head.

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# Blended Learning Pedagogy : Perpetual Way Out for All Educational Worries

**Dr. Meenakshi Rathi\* & Dr. Manjusha Kulkarni\*\***

\*Assistant Professor, Chemistry Dept., RNC Arts, JDB Commerce, NSC Science College, Nashik Road, Nashik\*  
\*\*Vice Principal, RNC Arts, JDB Comm., NSC Sci. College, Nashik Road, Nashik\*\*  
E-mail : \*meenakship2@gmail.com\*, mmkulkarni@gmail.com\*\*

**Abstract :**  
Pedagogy is rapidly changing. Currently, blended learning is trending among higher education institutions around the globe. The widespread availability of information and communication technologies has also transformed higher education institutions (HEIs) into multi-choice learning environments that complement classroom learning experience and increase learning based on individual preference. Learning is independent of time and place. To develop best practice in academia, it is important that we change with the changing needs of students. This article suggests that blended learning is one of the most important pedagogical formats that can enhance student learning, optimize the use of active learning strategies, and potentially improve student learning outcomes. so Blended learning pedagogy is a perpetual way out for all educational worries.

**Key Words :** Pedagogy, Blended learning, perpetual way out HEI

**Introduction :**  
Blended learning is a pedagogical model that combines educational online materials with traditional classroom methods. A close relative of the blended learning model is the flipped classroom. In a flipped classroom you move away from the group learning space to the individual learning space. Instead of the traditional homework model, students engage with new material and discover concepts for themselves before bringing their learning to class with practical application or discussion. Classroom time can then be spent having more in-depth discussion around the topic, as well as some 1:1 time. Blended learning has certainly become more popular as digital technology has become more affordable and available to

There are a number of benefits associated with the blended learning model.

**Enhanced outcomes**

Many studies have shown that blended and digitally-driven learning models have led to higher levels of engagement and attainment from primary school all the way up to higher education.

**Self-Paced and Personalising the learning experience**

When not in a large group traditional classroom-style learning environment, the teacher and the student have more opportunities to personalise their experience. Time is a factor, and the teacher must spend the time efficiently to ensure all students are engaged with the subject. But in doing this, some may get left behind if the exercise or content isn't suited to their learning style. A blended learning approach using online tools and resources enables teachers and students to tailor the content and the way they consume it to them and their learning style. Students can go at their own pace, leading to better engagement in the topic and better understanding.

**Break the outspread World**

Higher education has long been more driven by more blended learning models -- encouraging students to guide their own learning, and prepare for classroom-based discussion sessions by pre-engaging with material. And in a society where the new normal may very well be an increased number of workers collaborating and contributing remotely, it's great practice for students now to be responsible for their



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## ABOUT AUTHOR

**Dr. Vidyullata Rahul Hande** is Associate Professor and Head, Department of Cost and Works Accounting, R.N.C.Arts, J.D.P. Science and N.S.C.Science College, Nasik-road, Nasik. She has completed her education from Savitribai Phule Pune University. She is Ph.D. holder in Business Administration and Marketing Management in Savitribai Phule Pune University. She has 20 years of teaching experience at UG and PG level. She has published and presented more than 30 research papers in national and international conferences. Her areas of interest are Cost and Works Accounting, Banking and Finance.

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**Dr. D. N. Patil**  
( M.Sc., M.Ed., Ph.D.)

**Bhartiya Jain Sanghatans, Arts, Science and Commerce College, Wagholi, Pune.**

Dr. D. N. Patil did his M.Sc. (Botany), M.Ed. and Ph.D. from Savitribai Phule Pune University, Pune. He completed his Ph. D. work on Floristic Survey of Wagholi National Park and Nagzira Wildlife Sanctuary, from Botanical Survey of India as research Centre. He is currently working as Associate Professor, Head of Botany Department and Coordinator for Environment Awareness Course at Bharatiya Jain Sanghatans, Arts, Science and Commerce College, Pune- Nagar Road, Wagholi, Pune (M.S.). He has 23 years of teaching and research experience. He has published many research papers in National and International reputed journal.



**Dr. Bapu K. Avchar**  
M.Sc., Ph.D. and LL. B.

**Vidya Pratishthan's Arts, Science and Commerce College, Vidyanagari, Baramati,**

Dr. B.K. Avchar is currently working as Associate Professor of Botany at Vidya Pratishthan's Arts, Science and Commerce College, Vidyanagari, Baramati, Dist-Pune (M.S.). He has 26 years of teaching and research experience at Under Graduate and Post Graduate levels. He is a Recognized Guide for Ph.D. students at Savitribai Phule Pune University, Pune. He has published many research papers in International reputed journals. He holds several academic positions like Principal, Head of Department, Coordinator, Professor, Guest Lecturer and Member, Board of Studies, Savitribai Phule Pune University, Pune. He has authored two reference books entitled "Weed Identification" and "Weed Control" by Success Publication, Pune. He is author of "Weed Identification" book by Success Publication, Pune.



**Prof. Dr. Deelip G. Shimpi**  
M. Sc., Ph.D.

**RNC Arts, JDB Commerce NSC Science College, Nashik.**

Prof. Dr. Deelip G. Shimpi is currently working as HOD and Associate Professor, Department of Botany at Gokhale Education Society's RNC Arts, JDB Commerce and NSC Science College, Nashik. He has almost 26 years of teaching experience. He has vast experience in the field of Research. He has published Several Research papers in National and International Journals and also attended Various National Conferences, Symposium and Workshops. He has been participated in Syllabus framing of Botany syllabus of S.P.P.U., Pune. He worked as a Co-ordinator and subject expert for Tree Census programme of Nashik Municipal Corporation from 2003-2008. He is working as a Chief Examination Superintendent for Indian Institute of Industrial Engineering, CBD Belapur, Navi Mumbai and as a College Examination Officer for S.P.P.U., Examination.



**Prof. Dr. Balasaheb S. Gaikwad**  
M. Sc., Ph.D.

**K. J. Somaiya College, Kopergaon, Ahmednagar.**

Prof. Dr. Balasaheb S. Gaikwad is working as HOD and Assistant Professor in Department of Botany in K. J. Somaiya College, Kopergaon, Ahmednagar. He received his M.Sc. in Palaeobotany and Ph.D. in Mutation Breeding from S.P.P.U., Pune. He has 20 years of teaching experience in Botany. He has published 6 Research Papers in leading National and International Journals. He attended and presented his Research Papers in several Conferences and Seminars. He has keen interest in Taxonomy and Mutation breeding. He has published several scientific articles in leading Marathi magazine. He worked as student welfare officer of Board of student welfare and working as assistant programme officer of National service Scheme.



**Dr. Vilas A. Patil**  
M.Sc., Ph.D.

**Dr. B. N. Purandare Arts, Smt. S. G. Gupta Commerce & Smt. S.A. Mithaiwala Science College, Lonavala.**

Dr. Vilas A. Patil working as Vice Principal and Head, Department of Botany, at Dr. B.N. Purandare Arts, Smt. S. G. Gupta Commerce & Smt. S.A. Mithaiwala Science College, Lonavala. I have 25 years of teaching experience at PG and UG level. I have completed two minor research project funded by UGC New Delhi and BCUD Savitribai Phule Pune University Pune. Recognized guide for Ph. D. of Savitribai Phule Pune University, Pune. Three students registered for Ph. D. Degree. Fifteen research papers published in National and International Journal. Attended many National Seminars and Conference and presented Papers in the National and International Seminars and Conferences.

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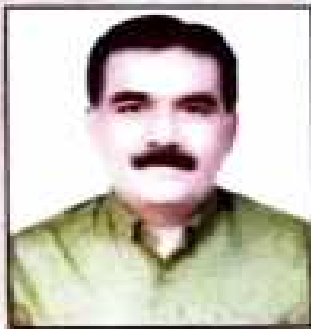


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*The No 1 Ladies' Detective Agency*; a genre fiction portrays daily life incidences of Africa reassuring life to be looked after. Characters enjoy themselves and the readers are convinced enough to enjoy life though number of severities.

## ABOUT THE AUTHOR



**Uttam B Sonkamble**, teaches English language, literature and communication skills to undergraduate and post graduate courses for more than two decades. He is a recognised guide of Savitribai Phule Pune University Pune. His research areas are African fiction, fiction genre and subaltern literature. He has got number of research papers and one book to his credit.

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# The structural, electronic and optical properties of in-doped ZnO monolayer: A first principles study

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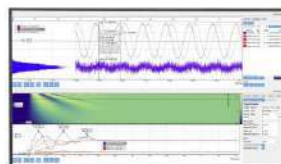
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# The Structural, Electronic And Optical Properties Of In- doped ZnO Monolayer : A First Principles Study

Sandhya Y. Wakhare<sup>1, a)</sup> and Mrinalini D. Deshpande<sup>1, b)</sup>

<sup>1</sup>Department of Physics, H. P. T. Arts and R. Y. K. Science College, Nashik, Maharashtra - 422 005, India.

<sup>a)</sup>[sandhya.wakhare@yahoo.co.in](mailto:sandhya.wakhare@yahoo.co.in) <sup>b)</sup>Corresponding author: [d\\_mrinal@yahoo.com](mailto:d_mrinal@yahoo.com)

**Abstract.** Structural, electronic and optical properties of concentration dependent indium (In) doped ZnO monolayer are studied in the framework of density functional theory. We have considered the various concentration of In (6.25, 12.50 and 18.75 atomic (at. %) in ZnO monolayer. We have used Vienna *Ab initio* Simulation Package (VASP) with Projected Augmented Wave (PAW) pseudopotentials and generalized gradient approximation - Perdew, Burke and Ernzerhof (GGA-PBE) functional. Substitution of Zn with In atom is energetically favorable. The large sized In atom as compared to that of Zn induces the stress in ZnO monolayer. To reduce the stress, In atom protrudes out from the plane of ZnO monolayer. The computational model under DFT calculations with ultrasoft pseudopotential and PBE exchange correlation functional, showed that In atom remains in the plane of ZnO monolayer. Similar behavior is observed with the use of full-potential linearized augmented plane wave (FLAPW)-GGA approach. The effects of pseudopotential and exchange correlation functional are observed in terms of structural deformation in In-doped ZnO monolayer. It effectively modulates the band structure and optical properties. The computational codes, potentials, and exchange correlation functionals are playing major role in investigating the structural and electronic properties of various nanostructures.

## I. INTRODUCTION

Density functional theory (DFT) plays significant role in calculating the structural and electronic properties of various nanostructures. There are variety of DFT based codes. The accuracy in DFT calculations and computational efficiency depends on the choice of computational code, basis set (LCAO, LAPW, and PW) and exchange correlation functional (LDA, GGA, GGA-PBE, and hybrid functional). Each functional has its own advantages and limitations such as LDA is generally overestimate the binding energy and underestimate the bond lengths. GGA removes the limitations of LDA. It also underestimate the band gap. The GGA-PBE functional is more superior one for calculating the electronic properties over LDA and GGA [1,2]. The choice of computational parameters helps to predict the structural and electronic properties of nanostructures more accurately.

There are number of studies focused on use of various functional and their effects on structural and electronic properties of various nanostructures [2-11]. There are few examples where contradictory results are observed with variation in pseudopotentials and exchange correlation functionals. The earlier DFT based calculations [3] of graphene sheet doped with Al atom showed that, Al atom remains in the plane of the sheet. The Rad et al. used the Gaussian code with B3LYP/6-31G basis set for calculations. The Al doped graphene also studied with the norm conserving Troullier Martins pseudopotential and LDA functional using plane wave basis [4]. The Varghese et al. [4] showed that, the Al atom protrudes out from the plane of graphene. Here, the influence of approach, pseudopotential and exchange correlation functional are responsible for detecting the structural properties. There are few more reports [4-9] showed that, the large sized dopant compared with the substitutional atom disturbed the nanosheet and preferred to relax out of the planar sheet. ZnO monolayer is studied using DFT with various dopants. It is seen that, the large sized dopant such as C, N and F in place of O atom remains in the plane of ZnO monolayer. The Kokten et al. [10] reported this study by using the Gaussian-type basis set for calculations. But the studies reported by Kouser and Wen et al. [11,12] showed the structural deformation in ZnO monolayer due to dopant size. The large sized dopant compared with O atom disturbed the monolayer and preferred to relax out of the planar sheet of ZnO monolayer. The size effects are dominantly observed with ultrasoft potential and PBE functional. It is seen that, the structural relaxation of system and size effects are predicted with the proper choice of pseudopotential and exchange correlation functional with computational code.

Recently, ZnO monolayer is studied with group III elements due to its excellent optoelectronic properties [13-15]. The two different approaches are used in these studies of DFT, it is found that Sun and Feng et al. [13-15] have used either ultrasoft pseudopotential and PBE functional or FLAPW-GGA approach. They showed that, the large sized In atom substituted in place of Zn remains in the plane of ZnO monolayer. We feel that, the large size In atom compared with Zn should come out of the plane of ZnO monolayer. We have revisited the In doped ZnO monolayer using the PAW-PBE approach under VASP code. From our calculations, it is found that, In atom prefers to sit out of the plane of ZnO monolayer. The in-plane configuration is energetically less favorable compared with protrude configuration. This paper is organized as follows, In the section II, a brief description of the method of calculations is given. The section III discusses the obtained results and compared with the earlier results. Conclusions are given in section IV.

## II. COMPUTATIONAL DETAILS

All the calculations have been performed using VASP [16] code based on DFT. The interaction between electron and ions are represented by PAW pseudopotential [17]. The exchange correlation functional is represented by a GGA-PBE [1]. During periodic calculations, vacuum space of 20 Å has been included along z-direction to avoid an interaction of

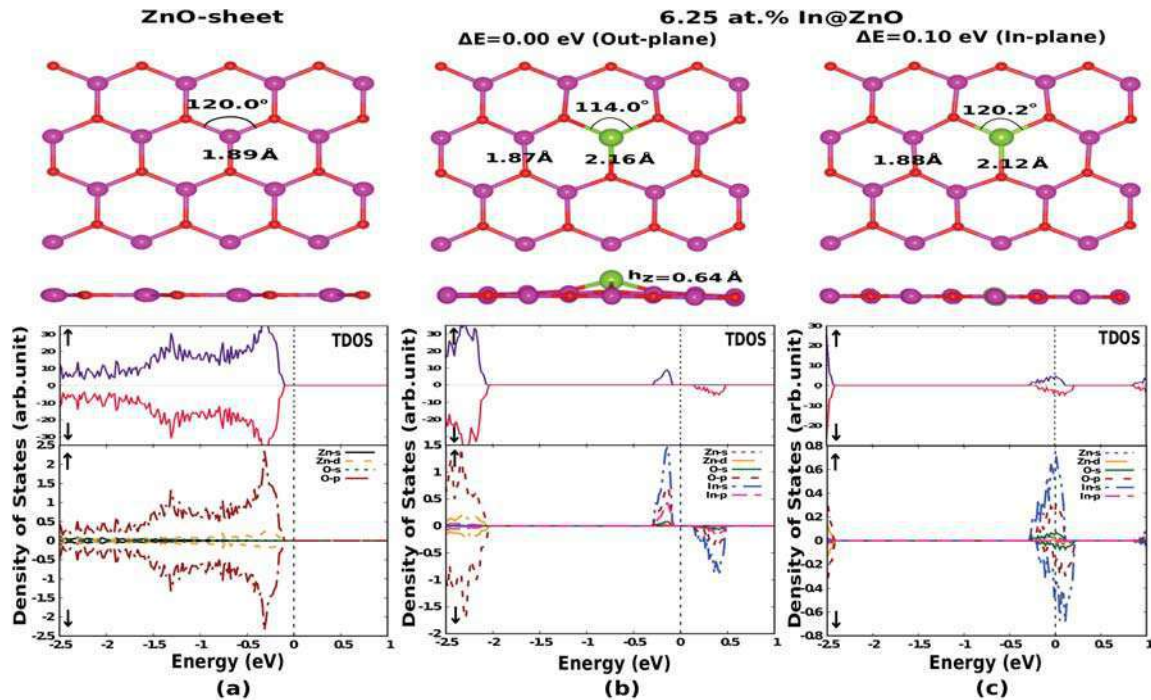
periodic images. The cutoff energy for the plane wave basis set is set to 400 eV. The brillouin zone integration is performed using a 5 X 5 X 1 k-point mesh within the Monkhorst scheme. In all the calculations, the convergence criteria for energy and forces are  $10^{-5}$  eV and 0.001 eV/Å, respectively. Based on earlier studies, we have selected a computational model with 32 atoms. The optimized lattice parameter for ZnO monolayer equal to  $a = 3.27$  Å is in excellent agreement with the experimental value [18]. Figure 1 (a) represents, optimized structure of ZnO monolayer along with total and projected density of states (DOS). The calculated Zn-O bond lengths of pristine ZnO monolayer are 1.89 Å and O-Zn-O bond angle is  $120^\circ$ . The band structure calculations are carried out along the high symmetry k-points of the brillouin zone. The spin polarized calculation shows that, ZnO monolayer is non-magnetic system and maintaining the direct band gap of 1.66 eV. This is in good agreement with earlier reports [18,19]. However, the band gap is underestimated due the shortcomings of the GGA-PBE approach [13]. The band gap can be improved by using DFT+U approach. From earlier study [13], Hubbard parameter U values are included for Zn and O orbits such as  $U(d, Zn) = 10$  eV and  $U(p, O) = 7$  eV. By using same parameters, we have calculated the band gap of pristine ZnO monolayer. The calculated band gap is 2.73 eV. To understand concentration dependent structural and electronic properties of Indium doped ZnO monolayer, we have used DFT+U approach. Further, the optical properties are explored with the frequency dependent complex dielectric functions,

$$\epsilon(\omega) = \epsilon_1(\omega) + i\epsilon_2(\omega) \quad (1)$$

The imaginary part ( $\epsilon_2$ ) can be derived from the momentum matrix elements between the occupied and unoccupied wave functions and the real part ( $\epsilon_1$ ) is calculated from imaginary part by the Kramers-Kronig transformation, [20] respectively. To calculate DOS and optical properties, the brillouin zone integration is performed with higher k points as 11 X 11 X 1.

### III. RESULTS AND DISCUSSION

As noted earlier, we have considered 4 x 4 supercell of ZnO monolayer to understand the concentration dependent effects on the structural and electronic properties of ZnO monolayer with In doping. There are two substitutional sites in ZnO monolayer. It is found that the substitution of Zn atom with In atom is more favorable as compared to the substitution of O with In atom. This finding is consistent with the earlier studies [13-15]. Substitution of Zn/O with In atom having larger atomic radius (1.62 Å) than Zn (1.33 Å) or O (0.71 Å) distort the planar structure of ZnO monolayer into buckled one. The structural analysis for In doped ZnO monolayer (In@ZnO) revealed that, In atom prefers to come out of the planar sheet of ZnO monolayer. The larger sized dopant decreases the induced stress in the ZnO monolayer by preferring to come of the plane of ZnO monolayer.



**FIGURE 1:** The top and side views of optimized configurations along with In-O and Zn-O bond lengths (Å) and bond angle O-Zn/In-O ( $^\circ$ ) and the calculated total and projected DOS for (a) ZnO sheet, (b) lowest (out-plane) and (c) low-lying (in-plane) configurations of In@ZnO for 6.25 at.% of In atom in ZnO monolayer. Pink and red colors represent the zinc and oxygen atoms, respectively. Green color represents In atom. The  $h_z$  in side view of configuration represents the distance of In along z-axis from ZnO sheet (Å). The Fermi level is set at zero energy in DOS and indicated by black dotted vertical lines.

concentration of In in ZnO monolayer, the defect induced lower energy peaks are observed. It is consistent with the delocalized nature of DOS with In doping. The intensity of lower energy peaks in absorption spectra increases with increased in defects in ZnO monolayer with In doping. For 18.75 at.% concentration of In@ZnO further reduces the absorption intensity in lower energy range. For 6.25 and 12.50 at.% concentration of In in ZnO monolayer, the absorption spectra for out-plane configuration shift towards the visible region compared with in-plane configuration. But this shift towards shorter wavelength is higher (0.7 eV) for 18.75 at.% concentration of In@ZnO. The intensity of first peak of out-plane configuration significantly decreases compared with in-plane configuration. From the real part of dielectric function, we have calculated the dielectric constant. The dielectric constant of In@ZnO increases compared with ZnO monolayer (1.34). For lowest energy configuration, the dielectric constant of In@ZnO are 1.45, 1.89 and 1.76 for 6.25, 12.50 and 18.75 at.% concentration of In in ZnO monolayer, respectively. As we know, the band gap is inversely related to static dielectric constant. The variation in dielectric constant and optical band gap is consistent with increase in In concentration in ZnO monolayer. Overall, our study focus on the role of computational modeling in precise detection of structural analysis with electronic and optical properties. This study provides a model for nanostructured base system with PAW pseudopotential and GGA-PBE functional. The protrude configuration of In@ZnO open up the new sites for sensing applications.

#### IV. CONCLUSIONS

In summary, our density functional calculations of In doped ZnO monolayer at the PAW-PBE level indicates that doping of In atom is favorable in ZnO monolayer. Our calculations demonstrate that substitution of Zn atom with In atom induces buckling in ZnO monolayer. In atoms protrude out from the ZnO monolayer. The increase in concentration of In in ZnO monolayer shows oscillatory behavior of magnetic moment in between 0 and 1  $\mu$ B. The out-plane configuration of In doped ZnO monolayer is more favorable compared with reported in-plane configuration. The protrude geometries of In@ZnO show, significant variations in band gap and dielectric constant compared with planar geometries. The direct to indirect transition is observed from pristine ZnO monolayer to In@ZnO. The optical band gap is within the range of 1.81 - 2.33 eV. The absorption spectra of In doped ZnO monolayer with increased in concentration shift towards longer wavelength, red shift compared to that of pristine ZnO monolayer. The dielectric constant of In@ZnO increases as compared to pristine ZnO monolayer. The computational methodology, pseudopotentials and exchange correlation functionals are playing important role in prediction of the structural and electronic properties.

#### V. ACKNOWLEDGMENTS

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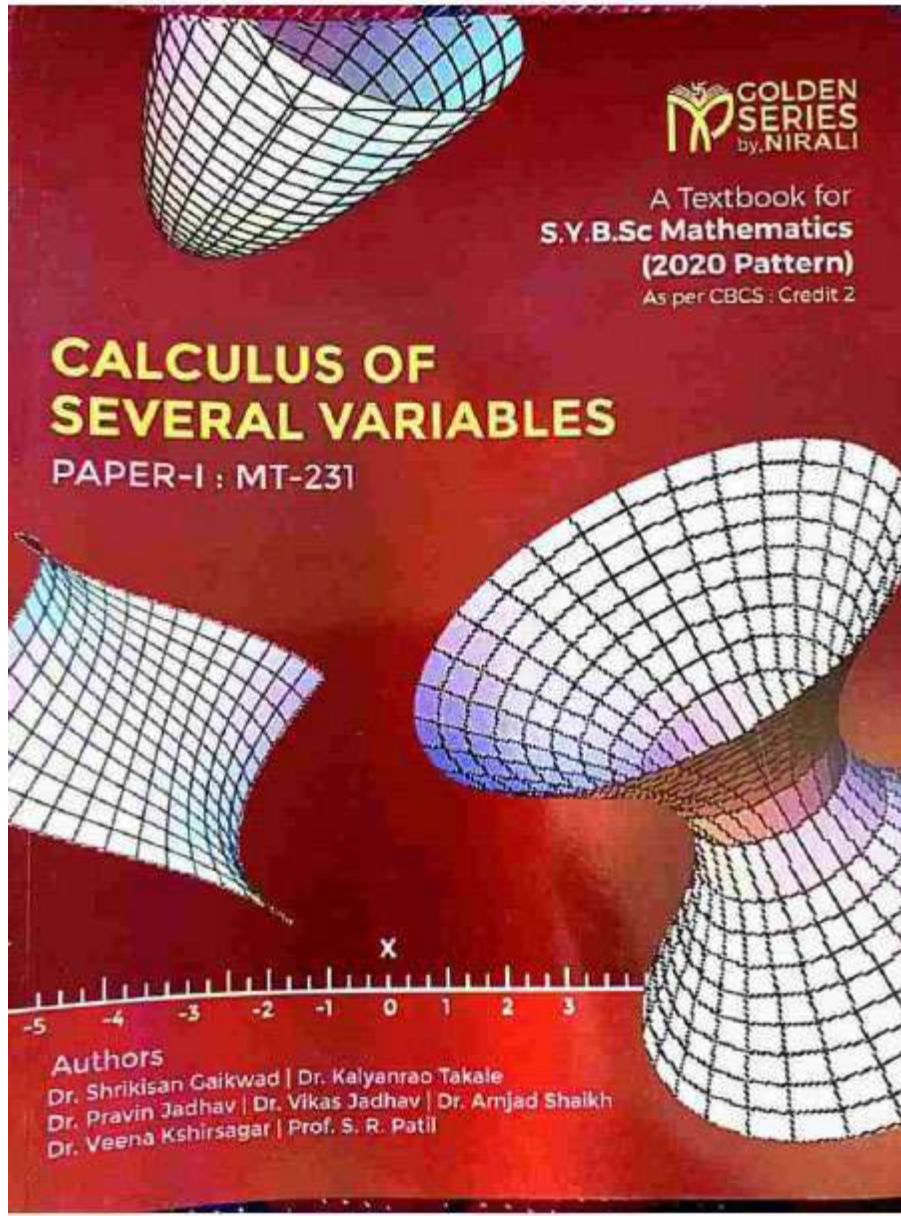
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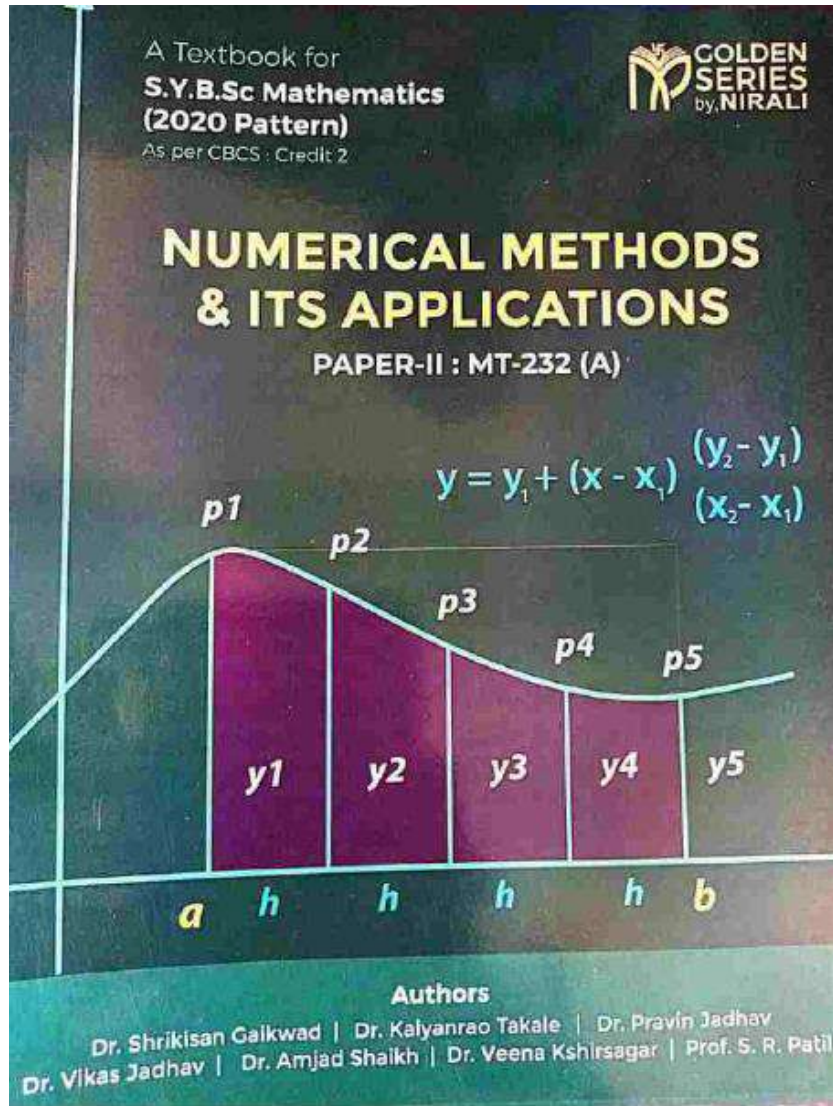
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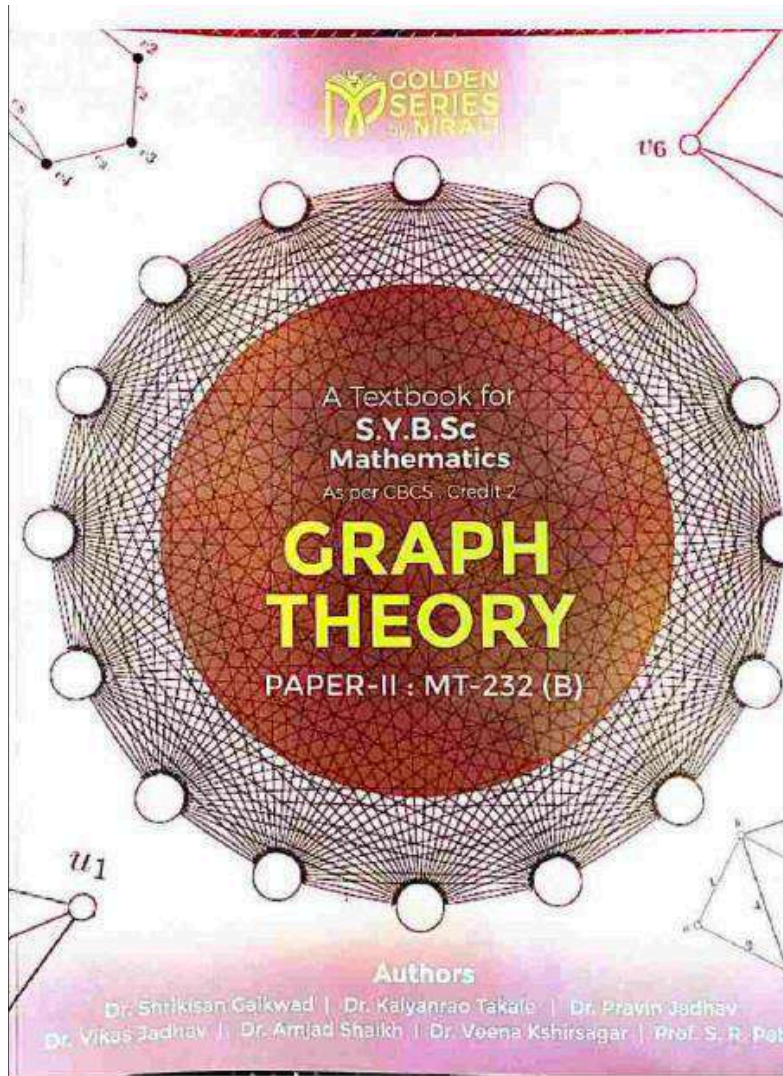
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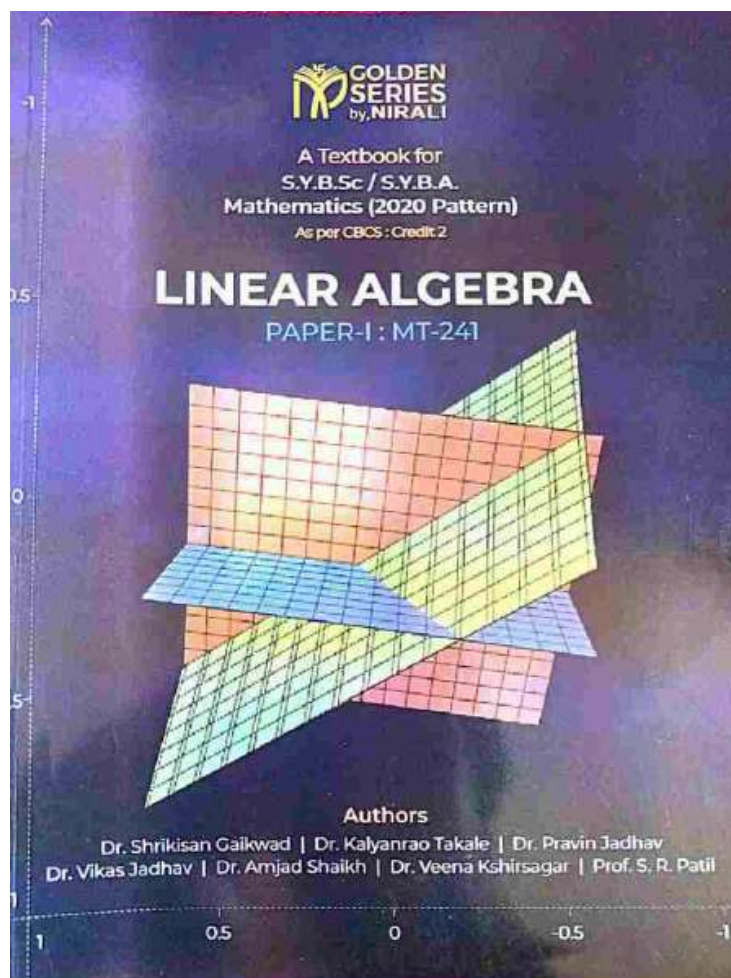
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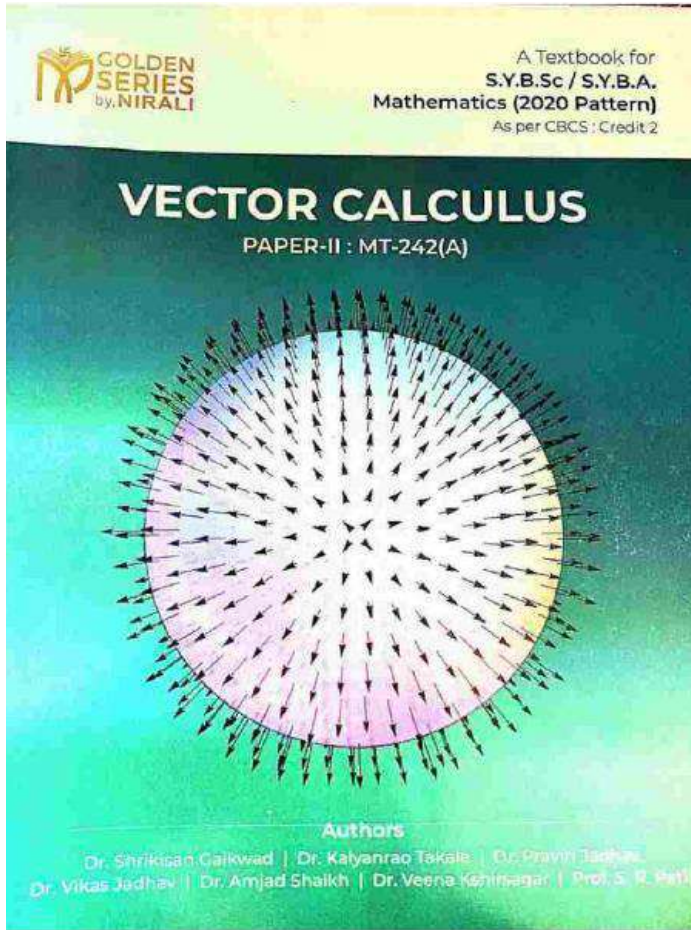
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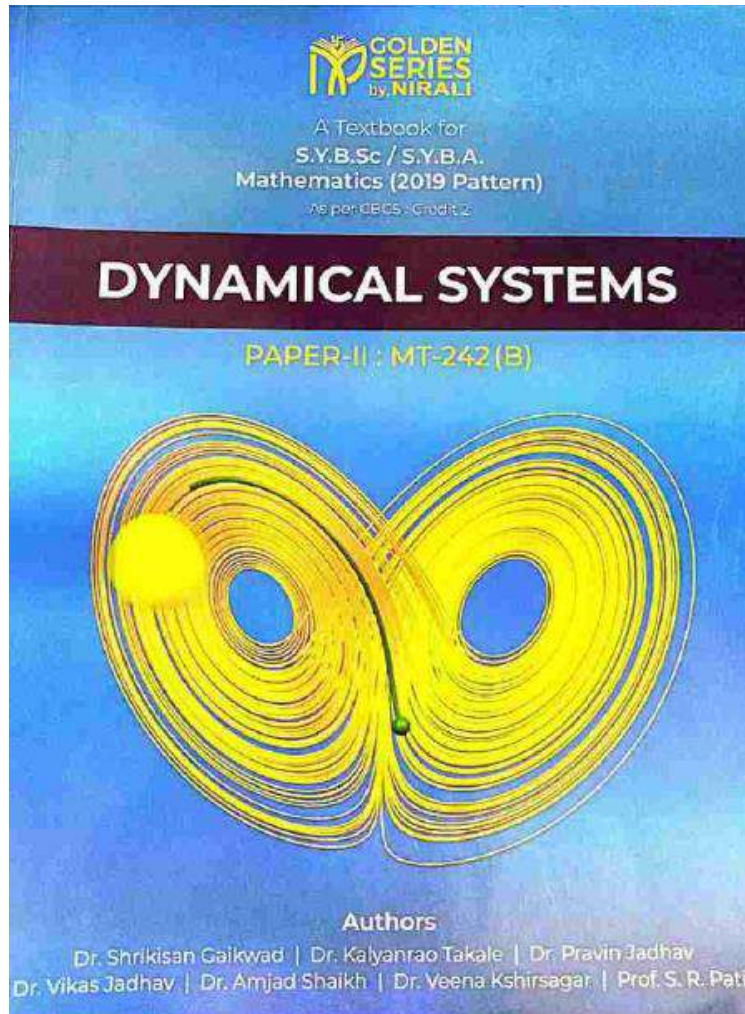
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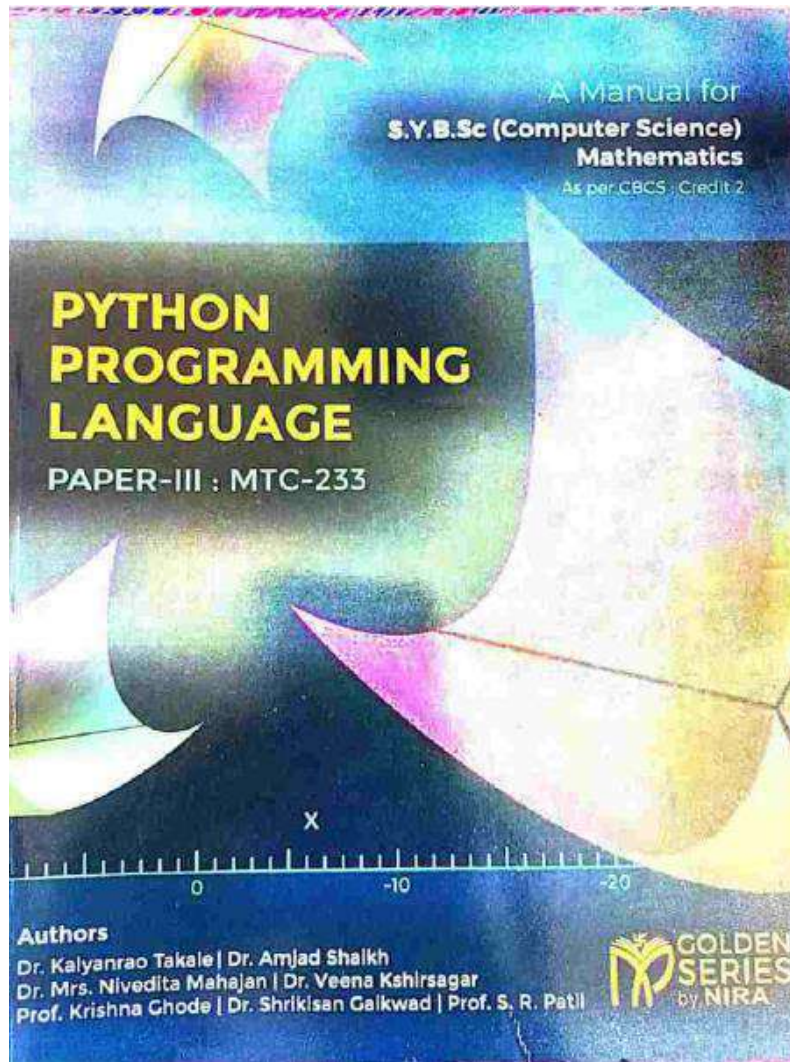


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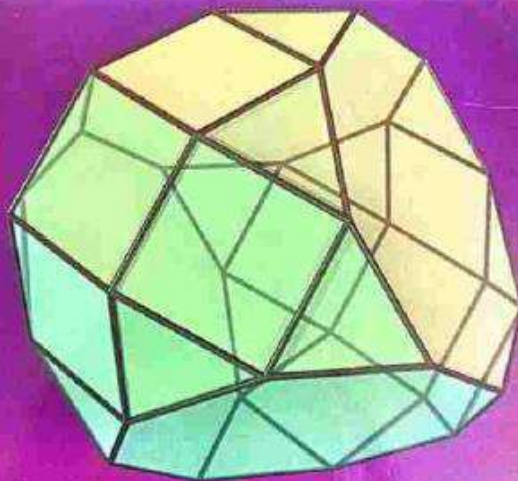
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Mathematics Practical

**MTC-243**



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Prof. Mrs. Shamal Deshmukh | Mr. Krishna Ghode | Dr. Shrikisan Galkwad | Prof. S. P.

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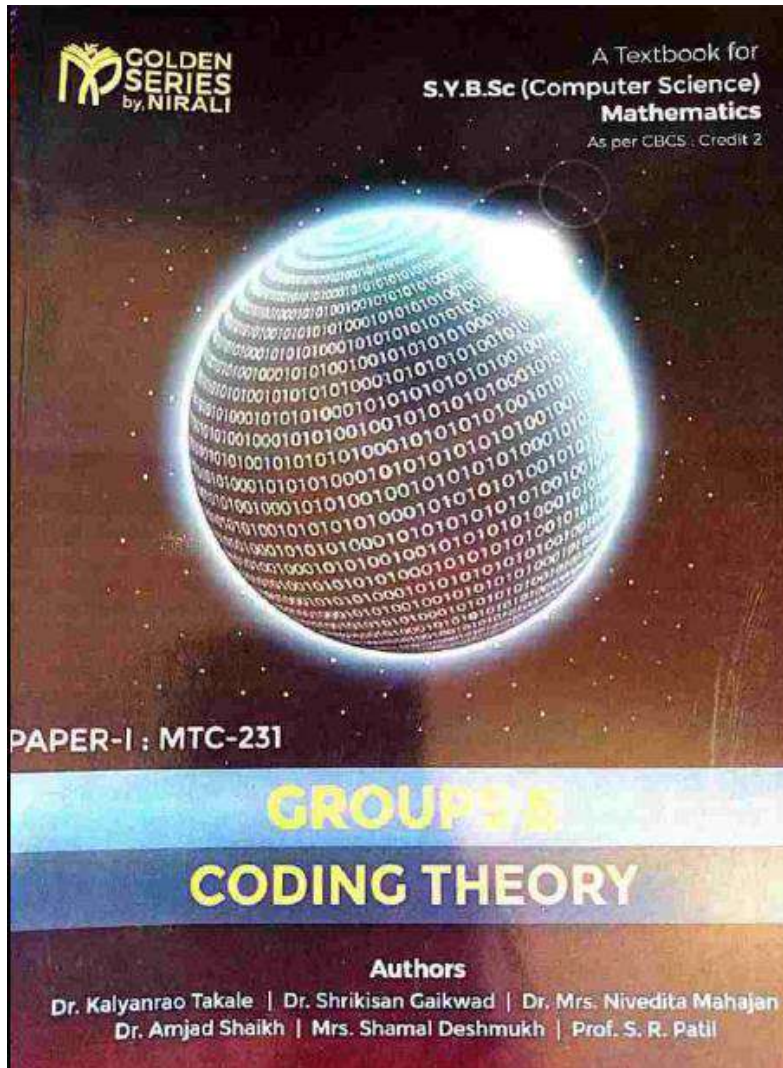
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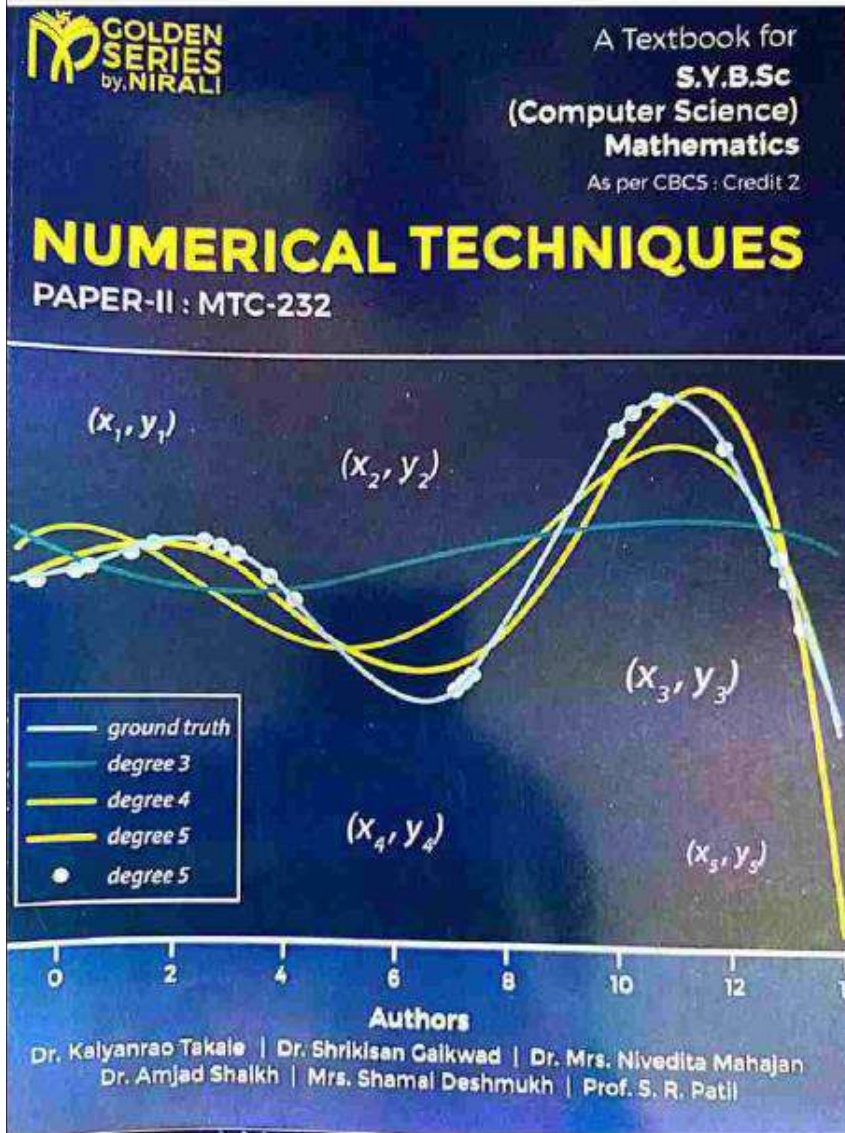
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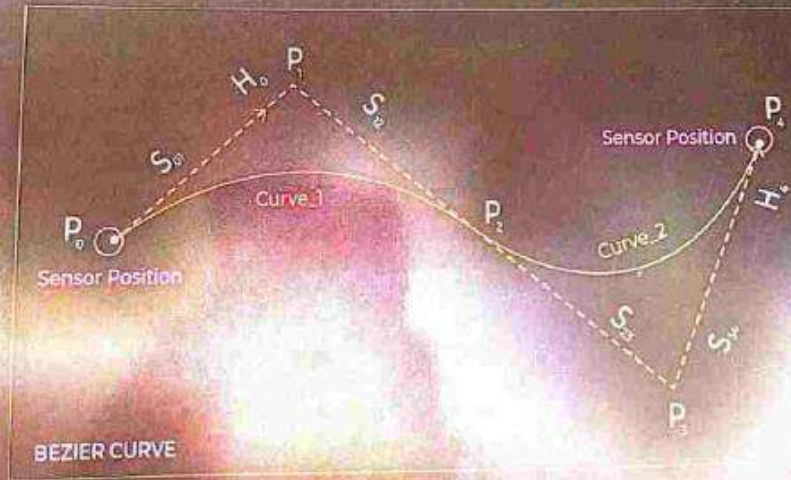
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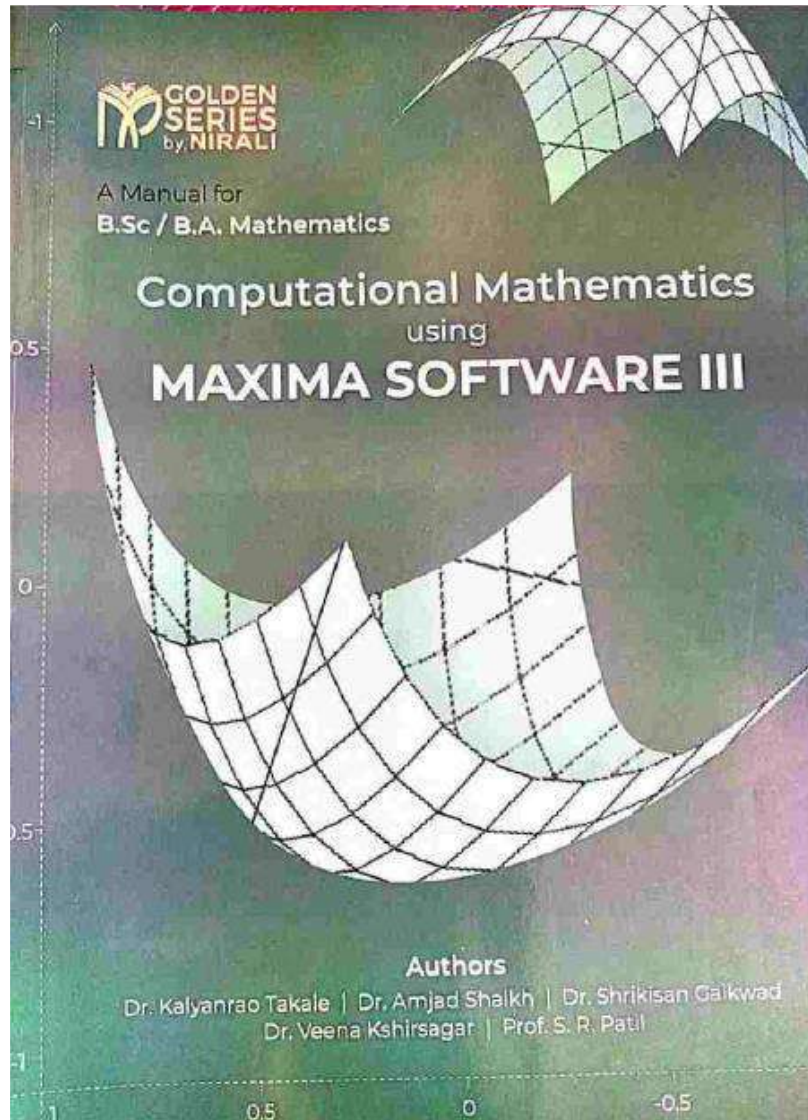
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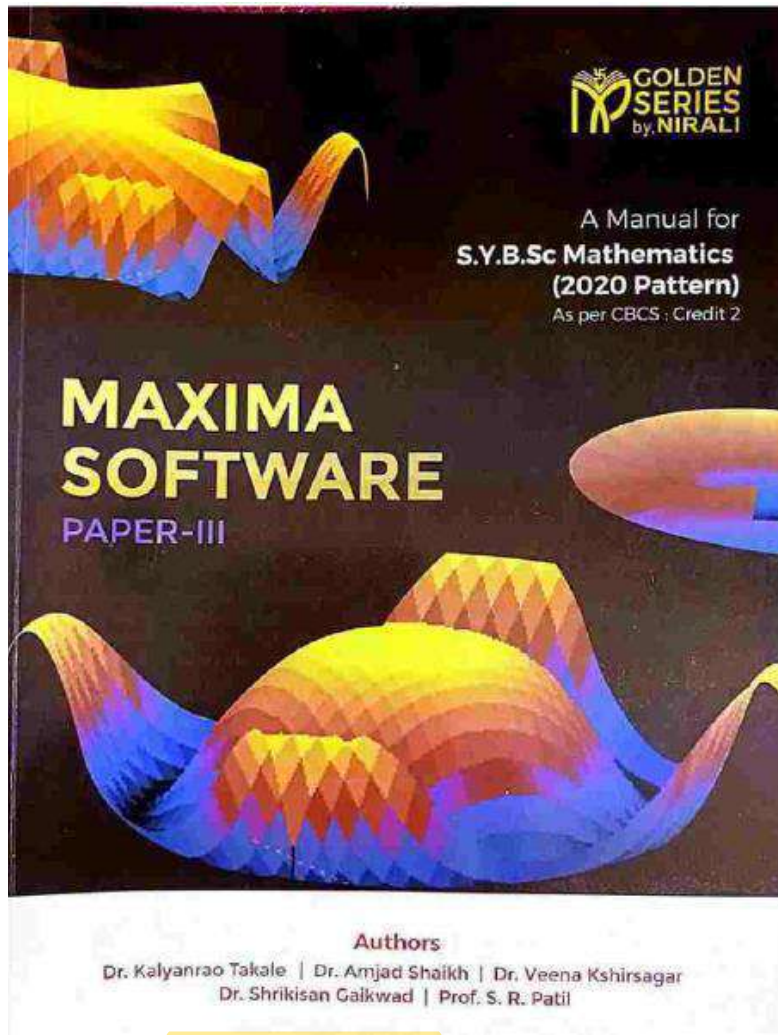
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# भारतातील महिला सक्षमीकरणाचे विविध पैलू

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संपादक

डॉ. संगीता भांगडिया मालानी



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नारायणराव राणा महाविद्यालय बडनेरा



आधार पब्लिकेशन, अमरावती

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### प्रस्तावना -

"जिच्या हाती पाळण्याची दोरी ती राष्ट्राला उद्धरी" या उक्तीप्रमाणे स्त्री शक्तीमध्ये राष्ट्राचा उद्धार करण्याचे प्रचंड सामर्थ्य आहे. अशा महिला शक्तीने आपल्या कौशल्याचा वापर कोणत्याही क्षेत्रात केला तर त्यातून त्या क्षेत्राच्या विकासास मदतच होते. आज कोणत्याही क्षेत्रात महिला मागे नाहीत, विविध क्षेत्रातील अनेक प्रगतीची शिखरे महिलांनी पादाक्रांत केली आहेत. या महिला शक्तीने आपल्या अंगभूत गुणांचा वापर कोणत्याही क्षेत्रात केल्यास त्या क्षेत्राच्या विकासाला एक नवीन दिशा प्राप्त होते. भारतीय अर्थव्यवस्थेचा विचार करता शेती, उद्योग आणि सेवा या तीन क्षेत्रांचा विकास हा देशाच्या आर्थिक विकासासाठी महत्त्वाचा आहे. यातील सर्वत्र क्षेत्रात महिलांचा सहभाग हा आर्थिक विकासास वेग प्राप्त करून देणारा ठरतो. आज अनेक क्षेत्रात महिला वर्ग कार्यरत आहे पण त्यांची संख्या वाढणे महत्त्वाचे आहे म्हणजेच महिलांच्या अंगी असणा-या विविध गुणांचा उपयोग वस्तू आणि सेवांच्या उत्पादनात होऊन त्यातून राष्ट्रीय विकासास हातभार लागण्यास अथवा आर्थिक विकासाची चाके अधिकाधिक गतिमान होण्यास मदत होईल.

1) निर्णयक्षमता - शेती उत्पादनवाढीसाठी शेतकरी आज मोठ्या प्रमाणावर कावाडकट करतात आणि शेती विकासासाठी प्रयत्न करतात. शेतीमधील विविध कामांमध्ये पुरुष शेतकऱ्यांच्या तुलनेने महिला शेतकऱ्यांचे प्रमाण कमी दिसते. महिला शेतकऱ्यांना सर्वसाधारणपणे शारीरिक श्रमाची कामे मोठ्या प्रमाणावर दिली जातात. पण महिलांच्या ठायी असणारी निर्णयक्षमता तसेच विविध गुणांचा वापर करून घेऊन शेती विकास केला म्हणजेच शेती क्षेत्रातील महत्त्वाच्या अशा समजल्या जाणाऱ्या निर्णय प्रक्रियेत महिलांना महत्त्वाचे स्थान दिले तर कृषी उत्पादनात त्याने वाढ होण्यास मदतच होईल.

2) प्रभावी नियोजन - कुठल्याही कामामध्ये यश प्राप्तीसाठी आवश्यक असते ते प्रभावी नियोजन किंवा नियोजन क्षमता. घरगुती वातावरणात किंवा घरातील कामकाजामध्ये महिला या कौशल्याने सर्व कामांचे नियोजन करून सर्व कामे यशस्वी करतात. तेच नियोजन कौशल्य जर महिलांनी शेती क्षेत्रात वापरले तर त्यातून शेती विकासासाठी मदत होईल, शेती क्षेत्रातील नियोजनाचा विचार केला तर उपलब्ध जमीन, लागवडीलायक जमीन, पाण्याची व विजेची उपलब्धता, पैसा, भांडवल यांची उपलब्धता, प्रमशक्तीची उपलब्धता, कोणत्या पिकाचे उत्पादन घ्यावे या विषयीचे नियोजन या सर्वत्र प्रकारचे महिला शक्ती चांगल्या प्रकारे करू शकतात. त्याने शेतीच्या विकासासाठी मदतच होईल.

3) चिकाटी - महिलांच्या अंगी 'चिकाटी' हा महत्त्वाचा गुण मोठ्या प्रमाणावर असतो. शेतीतील अनेक कामांमध्ये उत्पादन प्रक्रिया, वस्तू बाजारपेठेत नेणे, विक्री या सर्वत्र प्रक्रियेमध्ये चिकाटी ठेवणे महत्त्वाचे आहे. काही शेती आदानाची उदा. पाणी, बीज व इतर यांची उपलब्धता वेळेवर न झाल्यास त्यावर चिकाटीने मात करता येते. त्यावर पर्याय शोधण्यासाठी काही वेळ निघून जातो आणि याच वेळेमध्ये चिकाटी फायदेशीर ठरते.

4) वेळेचा सदुपयोग - अनेक महिलांनी मोठ्या प्रमाणावर चांगुलपणाचा ध्यास घेतलेला असतो. हा चांगुलपणाचा ध्यास त्यांनी शेती क्षेत्रात घेतला तर शेती उत्पादकतेत मोठ्या प्रमाणावर वाढ होण्यास मदतच होते.



17) संस्कृतीचे संवर्धन – आपल्या अंगीकृत क्षेत्रात प्रगती करत असतांना आपल्या संस्कृतीला सोडून प्रगती करणे या विषयी महिला वर्गाला चीड असते. म्हणजेच ज्या – ज्या गोष्टी न्याय्य आहेत, योग्य आहेत, चांगल्या आहेत, त्या गोष्टींच्या आधारे आपल्या अंगीकृत क्षेत्रात महिला प्रगती करताना दिसतात. म्हणजेच अन्यायकारक, अयोग्य, वर्ज्य, अशा मार्गाने प्रगती साध्य करण्याच्या विरुद्ध महिला वर्ग दिसून येतो. आपल्या कार्यातून संस्कृतीचे संवर्धन करताना महिला वर्ग दिसून येतो. यातून मानवी संसाधनांचा विकास होतो आणि त्यातून राष्ट्रीय विकासाची चाक्रे गतिमान होण्यास मदत होते.

महिला वर्गात वरील प्रमाणे तसेच इतर अनेक गुण मोठ्या प्रमाणावर असतात. यासारख्या गुणांच्या जोरावर आपल्या अंगीकृत क्षेत्रात महिला विजयश्री संपदान करतात. त्यामुळे त्यांच्या परिवारा बरोबरच सामाजिक आणि देशाचा आर्थिक विकास होण्यास मदत होते. आजच्या सामाजिक रचनेत महिला वर्गावर होणारे अन्याय कमी होऊन त्यांच्या अंगी असणाऱ्या विविध गुणांचा उपयोग आपल्या कौटुंबिक आणि राष्ट्राच्या विकासासाठी कशा रीतीने करता येईल याकडे लक्ष देणे गरजेचे आहे. यासाठी महिलांचे शिक्षण, आरोग्य, सुपोषण, सामाजिक सुरक्षा, उत्पन्न, वडिलोपार्जित मालमत्तेतील हिस्सा अशा सर्वच बाबतीत सकारात्मक दृष्टीकोनातून पाहणे गरजेचे आहे यासाठी आवश्यकता आहे ती समाजाची मानसिकता बदलण्याची.

# Atmanirbhar Bharat

A New Normal to New Future

Dr. Jitendra K. Aherkar

8

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## Chapter 8

# Problem of Farmers Suicides: Causes and Remedies

Dr. Krishna Shankar Shahane

*Associate Professor and Head, Department of Economics,  
RNC Arts, JDB Commerce and NSC Science College, Nashik Road,  
Nashik*

*e.mail id – [drkrishnashahane1@gmail.com](mailto:drkrishnashahane1@gmail.com)*

### Introduction

Agriculture sector is a backbone of our Indian Economy. Agriculture offers the right form to the Indian Economy, while not the agriculture sector, we have a tendency to can't get the full plan or idea of the Indian economy. The backbone plays a crucial role within the body any animal role compete by agricultural sector In Indian Economy is wanting. Majority of the population is engaged with the agricultural sector, agricultural sector is proscribed thanks to adequate rain water and alternative issues. As a result farmers got to face numerous issues throughout the assembly and selling of the agricultural merchandise. ranges of Issues are increasing in agricultural sector.

Farmer suicides are increasing day by day and region by region. In previous few years, increasing suicide of farmers has become a significant issue in some states of India, and a few districts in geographic area. Farmer's suicide has become a national stigma, and its dark or a black

facet of agriculture sector. Farmer's suicides are increasing in recent years. It can explain with data given in the following table.

Table No. 1

Sr. NO.	Year	India	Maharashtra	Per cent of Maharashtra with India
1	2001	16415	62	0.38
2	2002	17971	122	0.68
3	2003	17164	180	1.05
4	2004	18241	640	3.51
5	2005	17131	609	3.55
6	2006	17060	2376	13.92
7	2007	16632	2076	12.48
8	2008	16796	1966	11.70
9	2009	17368	1605	9.24
10	2010	15964	1741	10.90
11	2011	14027	1518	10.82
12	2012	13754	1473	10.71
13	2013	11772	1296	11.00
14	2014	12360	1981	16.00
15	2015	12602	3228	25.61
16	2016	-	3052	-

Reference - State crime record bureau and NCRB

Farmers suicides in India and Maharashtra from the year 2001 are shown in the table 2.3, suicide of farmers are increasing in India, and Maharashtra. In recent years, and the per cent of farmers suicide in Maharashtra, as well as in India, are continuously increasing from the

001 to 2016. The percentage was less than one percent in the year 2001 and 2002. But It was more than 25 percent in the year 2015

### **Causes of Farmers Suicide**

suicide of farmers due to many causes not only one cause is responsible for that. The problem of farmers suicide is on large scale in India, that major problem causes suicide of farmers are found common in some states, like Orissa, Maharashtra, Andhra Pradesh, Madhya Pradesh, Chhattisgarh, some causes of farmer's suicide are given as follows.

#### **1) Natural Problem**

There are many types of natural problems, and they are also responsible for farmer's suicide. Higher agricultural production is depending upon the favorable weather conditions. Heavy rains, no rains, flood, dry land, lack of rain, big cyclones, fire accidents, due to these causes production and profit are decreasing. Many farmers do not have second option than agriculture for income. In some cases no other option is left but to make suicides.

#### **2) Agriculture is main source of Income**

Majority of our population depends upon the agricultural sector for earning the income. There is no alternative source of income to Indian farmers. But there are many types of ups and downs in the agricultural production. Due to various reasons as a result of income is also uncertain. Dairy, poultry, cottage industry, these can be alternative sources of their income. But these are contributing very few proportions or say amount to their Income.

times these minimum support price is very lower. That minimum support prices should be more than the production cost of that crop. Government should announce minimum support price for all type of crops.

#### **9) Increase in Education and Technical Education**

Many farmers are illiterate and they do not have any kind of technical knowledge. Increase in education is important for the better development of farmers and agricultural sector. When the farmers are well educated & have technical knowledge, it is helpful to increase in the agricultural productivity. Due to education and technical education farmers can easily handle any type of situations.

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